



Knack API Data Model

for use with Invantive SQL

24.0



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This manual is a reference guide intended to clarify usage. If data in the sample images match data in your system, the similarity is coincidental.

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1 SQL Driver for Knack API

Invantive UniversalSQL is the fastest, easiest and most reliable way to exchange data with the Knack API.

Use the "Search" option in the left menu to search for a specific term such as the table or column description. When you already know the term, please use the "Index" option. When you can't find the information needed, please click on the Chat button at the bottom or place your question in the [user community](#). Invantive Support or other users will try to help you.

Knack is a low-code platform to build online databases.

The Knack driver covers 45 tables and 1257 columns.

Knack API Clients

Invantive UniversalSQL is available on many user interfaces ("clients" in traditional server-client paradigm). All Invantive UniversalSQL statements can be exchanged with a close to 100% compatibility across all clients and operating systems (Windows, MacOS, Linux, iOS, Android).

The clients include Microsoft Excel, Microsoft Power BI, Microsoft Power Query, Microsoft Word and Microsoft Outlook. Web-based clients include Invantive Cloud, Invantive Bridge Online as OData proxy, Invantive App Online for interactive apps, Online SQL Editor for query execution and Invantive Data Access Point as extended proxy.

The [Knack Power BI connector](#) is based on the Invantive UniversalSQL driver for Knack, completed by a high-performance OData connector which works straight on Power BI without any add-on. The OData protocol is always version 4, independent whether the backing platform uses OData, SOAP or another protocol.

For technical users there are command-line editions of Invantive Data Hub running on iOS, Android, Windows, MacOS and Linux. Invantive Data Hub is also often used for enterprise server applications such as ETL. High-volume replication of data taken from the Knack API into traditional databases such as SQL Server (on-premises and Azure), MySQL, PostgreSQL and Oracle is possible using [Invantive Data Replicator](#). Invantive Data Replicator automatically creates and maintains Knack datawarehouses, possibly in combination with data from over 75 other (cloud) platforms. Invantive Data Replicator supports data volumes up to over 1 TB and over 5.000 companies. The on-premise edition of Invantive Bridge offers an Knack ADO.net provider.

Finally, online web apps can be build for Knack using App Online of [Invantive Cloud](#).

Monitor API Calls

When a query or DML-statement has been executed on Invantive UniversalSQL a developer can evaluate the actual calls made to the Knack API using a query on sessionios@DataDictionary. As an alternative, extensive request and response logging can be enabled by setting log-native-calls-to-disk to true. In the %USERPROFILE%\Invantive\NativeLog folder Invantive UniversalSQL will create log files per Knack API request and response.

Specifications

The SQL driver for Knack does not support partitioning. Define one data container in a database for each company in Knack to enable parallel access for data from multiple companies.

An introduction into the concepts of Invantive UniversalSQL such as databases, data containers and partitioning can be found in the [Invantive UniversalSQL grammar](#).

The configuration can be changed using various attributes from the database definition, on log on and during use. A full list of configuration options is listed in the [driver attributes](#).

The catalog name is used to compose the full qualified name of an object like a table or view. The schema name is used to compose the full qualified name of an object like a table or view. On Knack the comparison of two texts is case sensitive by default.

Changes and bug fixes on the Knack SQL driver can be found in the [release notes](#). Get access to the community through the [Knack section](#) of the Invantive forums.

Driver code for use in settings.xml: `Knack`

Alias: `knack`

Recommended alias: `knk`

More technical documentation as provided by the supplier of Knack on the native connection used can be found at <https://docs.knack.com/docs/using-the-api>.

Authentication can be done using one of the following two alternatives: 1. Using the user log on code and password to access Knack views. 2. Using an API key to access Knack objects. The API key can be found on the 'API & Code' page in Knack available through the settings gear on the top-left corner next to the word 'Integration'. The URL for the API key is `https://builder.knack.com/SAMPLE/integration#settings/api`, with 'SAMPLE' replaced by your slug. The slug is the word before 'knack.com' when running your app.

Usage Limits Invantive SQL executes API calls to retrieve and upload data. The number of API calls allowed per hour depends on your Knack plan. The default usage limits vary depending on plan between 1.000 and 25.000 calls per day, with a limit of 10 calls per second. Invantive SQL ensures that within your session the number of calls allowed per hour is not exceeded. To get an impression of how Invantive SQL translates into API calls, please query the data dictionary view 'sessionios', such as with 'select * from sessionios@datadictionary'.

2 {res:itgen_doc_sql_attr_api}

The SQL driver for Knack has many attributes that can be finetuned to improve handling in scenarios with unreliable network connections to the API server of Knack or high volumes of data. Also, many drivers have driver-specific attributes to finetune actual behaviour or handle data not matching specifications.

The Knack driver attributes are assigned a default value which seldom requires change. However, changes can be applied when needed on four levels, which are reflected in the table below by separate checkmarks:

- Connection string: the connection string from the settings*.xml file and applied during log on.
- Set SQL statement: a set SQL-statement to be executed once connection has been established.
- Log on: value to be specified interactively by user during log on in a user interface.

The connection string for Knack can be found in the settings*.xml file used for the database. The reference manuals contain instructions how to relocate the settings*.xml files. Settings*.xml files are typically located in the %USERPROFILE%\invantive folder in most deployment scenarios. Each data container of a database in the connection string can have a `connectionString` element specifying the name and values of attributes. Both name and value must be properly escaped according to XML-semantics. Actual application of the value

is solely done during log on. A new connection must be established to change the value of a driver attribute using a connection string.

The set SQL statement can be executed after log on. The syntax is: `set NAME VALUE`, or for a distributed database: `set NAME@ALIAS VALUE`. In some scenarios you may need to enclose the driver attribute name in square brackets to escape it from parsing, for instance when a reserved SQL keyword is part of the name. The new value takes effect straight after execution of the set-statement. The set-statement can be executed as often as needed during a session.

Driver attributes that can be interactively set to a value are typically presented in the log on window. Depending on the platform and design decisions of the user interface designer, some or all of the available driver attributes can have been made available.

The Knack driver can be configured using the following attributes:

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Driver's File	Set from Log On
add-odata-mandatory-filters	Whether to automatically add OData filters deemed necessary by the platform.	OData	False	✓	✓	✓	
analysis-enforce-row-uniqueness	Enforce rows to be unique for software analysis. A fingerprint is calculated from the whole row of data when the primary key column is unknown.	Shared	False	✓	✓	✓	
api-key	API key of the Knack application.	Knack		✓		✓	✓
api-url	URL of web service.	OData		✓		✓	
application-id	ID of the Knack application.	Knack		✓		✓	✓
bulk-delete-page-size-rows	Number of rows to delete per batch when bulk deleting.	Shared	10000	✓	✓	✓	
bulk-insert-page-size-bytes	Approximate maximum size in bytes of batch when bulk inserting.	Shared	10000000	✓	✓	✓	
bulk-insert-page-size-rows	Number of rows to insert per batch when bulk inserting.	Shared	250	✓	✓	✓	
download-error-400-bad-request-max-tries	Maximum number of tries when HTTP server reports bad format during retrieval of data.		3	✓	✓	✓	
download-error-400-bad-request-sleep-initial-ms	Initial sleep in milliseconds between retries when HTTP server reports that the API server is unavailable during retrieval of data.		500	✓	✓	✓	
download-error-400-bad-request-sleep-max-ms	Maximum sleep in milliseconds between retries when HTTP server reports that the API server is unavailable during retrieval of data.		5000	✓	✓	✓	
download-error-400-bad-request-sleep-multiplicator	Multiplication factor for sleep between retries HTTP server reports that the API server is unavailable during retrieval of data.		2	✓	✓	✓	
download-error-403-forbidden-max-	Maximum number of tries when the website reports a HTTP status 403		2	✓	✓	✓	

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Driver's File	Set from Log On
tries	(Forbidden).						
dow nload-error-403-forbidden-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen the w ebsite reports a HTTP status 403 (Forbidden).		3000	✓	✓	✓	
dow nload-error-403-forbidden-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen the w ebsite reports a HTTP status 403 (Forbidden).		10000	✓	✓	✓	
dow nload-error-403-forbidden-sleep-multiplicator	Multiplication factor for sleep betw een retries w hen the w ebsite reports a HTTP status 403 (Forbidden).		2	✓	✓	✓	
dow nload-error-408-request-timeout-max-tries	Maximum number of tries w hen the w ebsite reports a HTTP status 408.		10	✓	✓	✓	
dow nload-error-408-request-timeout-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen the w ebsite reports a HTTP status 408.		10000	✓	✓	✓	
dow nload-error-408-request-timeout-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen the w ebsite reports a HTTP status 408.		300000	✓	✓	✓	
dow nload-error-408-request-timeout-sleep-multiplicator	Multiplication factor for sleep betw een retries w hen the w ebsite reports a HTTP status 408.		2	✓	✓	✓	
dow nload-error-422-bad-request-max-tries	Maximum number of tries w hen HTTP server reports unprocessable entity during retrieval of data.		30	✓	✓	✓	
dow nload-error-422-bad-request-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen HTTP server reports unprocessable entity during retrieval of data.		10000	✓	✓	✓	
dow nload-error-422-bad-request-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen HTTP server reports unprocessable entity during retrieval of data.		300000	✓	✓	✓	
dow nload-error-422-bad-request-sleep-multiplicator	Multiplication factor for sleep betw een retries HTTP server reports unprocessable entity during retrieval of data.		2	✓	✓	✓	
dow nload-error-429-too-many-requests-max-tries	Maximum number of tries w hen the w ebsite reports that too many requests have been made during a timeslot of one minute or one day.		10	✓	✓	✓	
dow nload-error-429-too-many-requests-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen the w ebsite reports that too many requests have been made during a timeslot of one minute or one day.		10000	✓	✓	✓	
dow nload-error-429-too-many-requests-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen the w ebsite reports that too many requests have		300000	✓	✓	✓	

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Driver's File	Set from Log On
quests-sleep-max-ms	been made during a timeslot of one minute or one day.						
download-error-429-too-many-requests-sleep-multiplier	Multiplication factor for sleep between retries when the website reports that too many requests have been made during a timeslot of one minute or one day.		2	✓	✓	✓	
download-error-500-internal-server-error-max-tries	{res:itgen_pae_download_error_500_internal_server_error_max_tries}		10	✓	✓	✓	
download-error-500-internal-server-error-sleep-initial-ms	{res:itgen_pae_download_error_500_internal_server_error_sleep_initial_ms}		10000	✓	✓	✓	
download-error-500-internal-server-error-sleep-max-ms	{res:itgen_pae_download_error_500_internal_server_error_sleep_max_ms}		300000	✓	✓	✓	
download-error-500-internal-server-error-sleep-multiplier	{res:itgen_pae_download_error_500_internal_server_error_sleep_multiplier}		2	✓	✓	✓	
download-error-502-server-unavailable-max-tries	Maximum number of tries when HTTP server reports a bad gateway during retrieval of data.		30	✓	✓	✓	
download-error-502-server-unavailable-sleep-initial-ms	Initial sleep in milliseconds between retries when HTTP server reports a bad gateway during retrieval of data.		10000	✓	✓	✓	
download-error-502-server-unavailable-sleep-max-ms	Maximum sleep in milliseconds between retries when HTTP server reports that a bad gateway during retrieval of data.		300000	✓	✓	✓	
download-error-502-server-unavailable-sleep-multiplier	Multiplication factor for sleep between retries HTTP server reports a bad gateway during retrieval of data.		2	✓	✓	✓	
download-error-503-server-unavailable-max-tries	Maximum number of tries when HTTP server reports that the API server is unavailable during retrieval of data.		30	✓	✓	✓	
download-error-503-server-unavailable-sleep-initial-ms	Initial sleep in milliseconds between retries when HTTP server reports that the API server is unavailable during retrieval of data.		10000	✓	✓	✓	
download-error-503-server-unavailable-sleep-max-ms	Maximum sleep in milliseconds between retries when HTTP server reports that the API server is unavailable during retrieval of data.		300000	✓	✓	✓	
download-error-503-server-unavailable-sleep-multiplier	Multiplication factor for sleep between retries HTTP server reports that the API server is unavailable during retrieval of data.		2	✓	✓	✓	

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
dow nload-error-504-gatew ay-timeout-max-tries	Maximum number of tries w hen the w ebsite reports a gatew ay timeout.		10	✓	✓	✓	
dow nload-error-504-gatew ay-timeout-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen the w ebsite reports a gatew ay timeout.		10000	✓	✓	✓	
dow nload-error-504-gatew ay-timeout-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen the w ebsite reports a gatew ay timeout.		300000	✓	✓	✓	
dow nload-error-504-gatew ay-timeout-sleep-multiplier	Multiplication factor for sleep betw een retries w hen the w ebsite reports a gatew ay timeout.		2	✓	✓	✓	
dow nload-error-590-netw ork-connect-timeout-max-tries	Maximum number of tries w hen the w ebsite reports a HTTP status 590.		10	✓	✓	✓	
dow nload-error-590-netw ork-connect-timeout-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen the w ebsite reports a HTTP status 590.		10000	✓	✓	✓	
dow nload-error-590-netw ork-connect-timeout-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen the w ebsite reports a HTTP status 590.		300000	✓	✓	✓	
dow nload-error-590-netw ork-connect-timeout-sleep-multiplier	Multiplication factor for sleep betw een retries w hen the w ebsite reports a HTTP status 590.		2	✓	✓	✓	
dow nload-error-599-netw ork-connect-timeout-max-tries	Maximum number of tries w hen the w ebsite reports a HTTP status 599.		10	✓	✓	✓	
dow nload-error-599-netw ork-connect-timeout-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen the w ebsite reports a HTTP status 599.		10000	✓	✓	✓	
dow nload-error-599-netw ork-connect-timeout-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen the w ebsite reports a HTTP status 599.		300000	✓	✓	✓	
dow nload-error-599-netw ork-connect-timeout-sleep-multiplier	Multiplication factor for sleep betw een retries w hen the w ebsite reports a HTTP status 599.		2	✓	✓	✓	
dow nload-error-argument-exception-max-tries	Maximum number of tries w hen an argument exception is returned w hen dow nloading a blob.		10	✓	✓	✓	

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Driver's File	Set from Log On
download-error-argument-exception-sleep-initial-ms	Initial sleep in milliseconds between retries when an argument exception is returned when downloading a blob.		10000	✓	✓	✓	
download-error-argument-exception-sleep-max-ms	Maximum sleep in milliseconds between retries when an argument exception is returned when downloading a blob.		300000	✓	✓	✓	
download-error-argument-exception-sleep-multiplicator	Multiplication factor for sleep between retries when an argument exception is returned when downloading a blob.		2	✓	✓	✓	
download-error-internet-dow n-max-tries	Maximum number of tries when the Internet connection seems down during retrieval of data.		10	✓	✓	✓	
download-error-internet-dow n-sleep-initial-ms	Initial sleep in milliseconds between retries when the Internet connection seems down during retrieval of data.		10000	✓	✓	✓	
download-error-internet-dow n-sleep-max-ms	Maximum sleep in milliseconds between retries when the Internet connection seems down during retrieval of data.		300000	✓	✓	✓	
download-error-internet-dow n-sleep-multiplicator	Multiplication factor for sleep between retries when the Internet connection seems down during retrieval of data.		2	✓	✓	✓	
download-error-io-exception-max-tries	Maximum number of tries when a network I/O connection failure occurs during retrieval of data.		10	✓	✓	✓	
download-error-io-exception-sleep-initial-ms	Initial sleep in milliseconds between retries when a network I/O connection failure occurs during retrieval of data.		10000	✓	✓	✓	
download-error-io-exception-sleep-max-ms	Maximum sleep in milliseconds between retries when a network I/O connection failure occurs during retrieval of data.		300000	✓	✓	✓	
download-error-io-exception-sleep-multiplicator	Multiplication factor for sleep between retries when a network I/O connection failure occurs during retrieval of data.		2	✓	✓	✓	
download-error-json-exception-max-tries	Maximum number of tries when an invalid JSON body is returned.		3	✓	✓	✓	
download-error-json-exception-sleep-initial-ms	Initial sleep in milliseconds between retries when an invalid JSON body is returned.		1000	✓	✓	✓	
download-error-json-exception-sleep-max-ms	Maximum sleep in milliseconds between retries when an invalid JSON body is returned.		10000	✓	✓	✓	

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Driver's File	Set from Log On
dow nload-error-json-exception-sleep-multiplicator	Multiplication factor for sleep between retries when an invalid JSON body is returned.		2	✓	✓	✓	
dow nload-error-name-resolution-failure-max-tries	Maximum number of tries when the host name could not be resolved during retrieval of data.		5	✓	✓	✓	
dow nload-error-name-resolution-failure-sleep-initial-ms	Initial sleep in milliseconds between retries when the host name could not be resolved during retrieval of data.		5000	✓	✓	✓	
dow nload-error-name-resolution-failure-sleep-max-ms	Maximum sleep in milliseconds between retries when the host name could not be resolved during retrieval of data.		5000	✓	✓	✓	
dow nload-error-name-resolution-failure-sleep-multiplicator	{res:itgen_pae_dow nload_error_name_resolution_failure_sleep_multiplicator}		1	✓	✓	✓	
dow nload-error-other-exception-max-tries	Maximum number of tries when an unqualified error occurs during retrieval of data.		3	✓	✓	✓	
dow nload-error-other-exception-sleep-initial-ms	Initial sleep in milliseconds between retries when an unqualified error occurs during retrieval of data.		10000	✓	✓	✓	
dow nload-error-other-exception-sleep-max-ms	Maximum sleep in milliseconds between retries when an unqualified error occurs during retrieval of data.		300000	✓	✓	✓	
dow nload-error-other-exception-sleep-multiplicator	Multiplication factor for sleep between retries when an unqualified error occurs during retrieval of data.		2	✓	✓	✓	
dow nload-error-socket-exception-max-tries	Maximum number of tries when the network connection is forcibly dropped during retrieval of data.		10	✓	✓	✓	
dow nload-error-socket-exception-sleep-initial-ms	Initial sleep in milliseconds between retries when the network connection is forcibly dropped during retrieval of data.		10000	✓	✓	✓	
dow nload-error-socket-exception-sleep-max-ms	Maximum sleep in milliseconds between retries when the network connection is forcibly dropped during retrieval of data.		300000	✓	✓	✓	
dow nload-error-socket-exception-sleep-multiplicator	Multiplication factor for sleep between retries when the network connection is forcibly dropped during retrieval of data.		2	✓	✓	✓	
dow nload-error-web-exception-max-tries	Maximum number of tries when a web connection failure occurs during retrieval of data.		10	✓	✓	✓	
dow nload-error-web-exception-sleep-initial-ms	Initial sleep in milliseconds between retries when a web connection failure occurs during retrieval of data.		10000	✓	✓	✓	

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
dow nload-error-web-exception-sleep-max-ms	Maximum sleep in milliseconds between retries when a web connection failure occurs during retrieval of data.		300000	✓	✓	✓	
dow nload-error-web-exception-sleep-multiplicator	Multiplication factor for sleep between retries when a web connection failure occurs during retrieval of data.		2	✓	✓	✓	
dow nload-error-web-not-found-max-tries	{res:itgen_pae_dow nload_error_web_not_found_max_tries}		1	✓	✓	✓	
dow nload-error-web-not-found-sleep-initial-ms	{res:itgen_pae_dow nload_error_web_not_found_sleep_initial_ms}		10000	✓	✓	✓	
dow nload-error-web-not-found-sleep-max-ms	{res:itgen_pae_dow nload_error_web_not_found_sleep_max_ms}		300000	✓	✓	✓	
dow nload-error-web-not-found-sleep-multiplicator	{res:itgen_pae_dow nload_error_web_not_found_sleep_multiplicator}		2	✓	✓	✓	
dow nload-error-web-not-implemented-max-tries	Maximum number of tries when the connection reports not implemented.		1	✓	✓	✓	
dow nload-error-web-not-implemented-sleep-initial-ms	Initial sleep in milliseconds between retries when the connection reports not implemented.		10000	✓	✓	✓	
dow nload-error-web-not-implemented-sleep-max-ms	Maximum sleep in milliseconds between retries when the connection reports not implemented.		300000	✓	✓	✓	
dow nload-error-web-not-implemented-sleep-multiplicator	Multiplication factor for sleep between retries when the connection reports not implemented.		2	✓	✓	✓	
dow nload-error-web-timeout-max-tries	Maximum number of tries when the connection reports a timeout.		10	✓	✓	✓	
dow nload-error-web-timeout-sleep-initial-ms	Initial sleep in milliseconds between retries when the connection reports a timeout.		1000	✓	✓	✓	
dow nload-error-web-timeout-sleep-max-ms	Maximum sleep in milliseconds between retries when the connection reports a timeout.		30000	✓	✓	✓	
dow nload-error-web-timeout-sleep-multiplicator	Multiplication factor for sleep between retries when the connection reports a timeout.		2	✓	✓	✓	
dow nload-error-web-unauthorized-max-tries	Maximum number of tries when the connection reports an unauthorized error.		1	✓	✓	✓	
dow nload-error-web-unauthorized-	Initial sleep in milliseconds between retries when the connection reports		10000	✓	✓	✓	

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Driver's File	Set from Log On
sleep-initial-ms	an unauthorized error.						
download-error-w eb-unauthorized-sleep-max-ms	Maximum sleep in milliseconds between retries when the connection reports an unauthorized error.		300000	✓	✓	✓	
download-error-w eb-unauthorized-sleep-multiplicator	Multiplication factor for sleep between retries when the connection reports an unauthorized error.		2	✓	✓	✓	
download-error-w eb-unknown-max-tries	{res:itgen_pae_download_error_w eb_unknown_max_tries}		10	✓	✓	✓	
download-error-w eb-unknown-sleep-initial-ms	{res:itgen_pae_download_error_w eb_unknown_sleep_initial_ms}		5000	✓	✓	✓	
download-error-w eb-unknown-sleep-max-ms	{res:itgen_pae_download_error_w eb_unknown_sleep_max_ms}		30000	✓	✓	✓	
download-error-w eb-unknown-sleep-multiplicator	{res:itgen_pae_download_error_w eb_unknown_sleep_multiplicator}		2	✓	✓	✓	
force-case-sensitive-identifiers	Consider identifiers as case-sensitive independent of the platform capabilities.	Shared	False	✓	✓	✓	
forced-casing-identifiers	Forced casing of identifiers. Choose from: Unset, Lower, Upper and Mixed.	Shared		✓	✓	✓	
http-disk-cache-compression-level	Compression level for the HTTP disk cache, ranging from 1 (little) to 9 (intense). Default is 5.		5	✓	✓	✓	
http-disk-cache-directory	Directory where HTTP cache is stored.		C:\Users\guido\Inventive\Cached\http\guido\shared	✓	✓	✓	
http-disk-cache-ignore-write-errors	Whether to ignore write errors to disk cache.		False	✓	✓	✓	
http-disk-cache-max-age-sec	Maximum acceptable age in seconds for use of data in the HTTP disk cache.		2592000	✓	✓	✓	
http-get-timeout-max-ms	HTTP GET maximum timeout on retry (ms).		24000	✓	✓	✓	
http-get-timeout-ms	HTTP GET timeout (ms).		56000	✓	✓	✓	
http-memory-cache-compression-level	Compression level for the HTTP memory cache, ranging from 1 (little) to 9 (intense). Default is 5.		5	✓	✓	✓	
http-memory-cache-max-age-sec	Maximum acceptable age in seconds for use of data in the HTTP memory cache.		14400	✓	✓	✓	

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
http-post-timeout-max-ms	HTTP POST maximum timeout on retry (ms).		58000	✓	✓	✓	
http-post-timeout-ms	HTTP POST timeout (ms).		57000	✓	✓	✓	
http-public-disk-cache-directory	{res:itgen_pae_http_public_disk_cache_directory}		C:\Users\guido\In-variantive\Cache\public	✓	✓	✓	
ignore-http-400-errors	Ignore HTTP 400 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-401-errors	Ignore HTTP 401 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-402-errors	Ignore HTTP 402 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-403-errors	Ignore HTTP 403 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-404-errors	Ignore HTTP 404 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-422-errors	Ignore HTTP 422 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-429-errors	Ignore HTTP 429 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-500-errors	Ignore HTTP 500 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-502-errors	Ignore HTTP 502 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-503-errors	Ignore HTTP 503 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
invalid-json-on-get-max-tries	Maximum number of tries when the JSON received on GET is invalid.		1	✓	✓	✓	
invalid-json-on-get-sleep-initial-ms	Initial sleep in milliseconds between retries when the JSON received on GET is invalid.		1000	✓	✓	✓	
invalid-json-on-get-sleep-max-ms	Maximum sleep in milliseconds between retries when the JSON received on GET is invalid.		10000	✓	✓	✓	
invalid-json-on-get-sleep-multiplicator	Multiplication factor for sleep between retries when the JSON received on GET is invalid.		2	✓	✓	✓	

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Driver's File	Set from Log On
invalid-json-on-post-max-tries	Maximum number of tries when the JSON received on POST is invalid.		1	✓	✓	✓	
invalid-json-on-post-sleep-initial-ms	Initial sleep in milliseconds between retries when the JSON received on POST is invalid.		1000	✓	✓	✓	
invalid-json-on-post-sleep-max-ms	Maximum sleep in milliseconds between retries when the JSON received on POST is invalid.		10000	✓	✓	✓	
invalid-json-on-post-sleep-multiplicator	Multiplication factor for sleep between retries when the JSON received on POST is invalid.		2	✓	✓	✓	
invantive-sql-compress-sparse-arrays	Whether to compress sparse arrays in result sets during compression.	SQL Engine V1	True	✓	✓	✓	
invantive-sql-correct-invalid-date	Whether to correct dates considered invalid since they are before 01-01-1753. When nullable, they are removed. Otherwise they are replaced by 01-01-1753.	SQL Engine V1	False	✓	✓	✓	
invantive-sql-execution-profile-disk-path	{res:itgen_pae_invantive_sql_execution_profile_disk_path}	SQL Engine V1		✓	✓	✓	
invantive-sql-execution-profile-to-disk	{res:itgen_pae_invantive_sql_execution_profile_to_disk}	SQL Engine V1	False	✓	✓	✓	
invantive-sql-forward-filters-to-data-containers	Whether to forward filters to data containers.	SQL Engine V1	True	✓	✓	✓	
invantive-sql-share-byte-arrays	Whether to share the memory used by identical byte arrays in result sets during compression.	SQL Engine V1	True	✓	✓	✓	
invantive-sql-share-strings	Whether to share the memory used by identical strings in result sets during compression.	SQL Engine V1	True	✓	✓	✓	
invantive-sql-shuffle-fetch-results-data-containers	Whether to shuffle results fetched from data containers.	SQL Engine V1	False	✓	✓	✓	
invantive-use-cache	Whether to cache the results of a query.	SQL Engine V1	True	✓	✓	✓	
join-set-points-per-request	Maximum number of values in a request when executing a join set.	OData	60	✓	✓	✓	
limit-partition-calls-left	Minimum number of remaining API calls on a partition towards a hard limit. When below, an error is raised.	OData	500	✓	✓	✓	
log-native-calls-to-disk-max-events	Maximum number of call events to register from last activation.	Shared		✓	✓	✓	
log-native-calls-to-disk-max-seconds	Maximum number of seconds to register calls from last activation.	Shared		✓	✓	✓	
log-native-calls-to-disk-on-error	Registers native calls to data container backend as disk files when the call raised an error.	Shared	False	✓	✓	✓	

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
log-native-calls-to-disk-on-success	Registers native calls to data container backend as disk files when the call raised no error.	Shared	False	✓	✓	✓	
log-native-calls-to-trace	Log native calls to data container backend on the trace.	Shared	False	✓	✓	✓	
maximum-length-identifiers	Non-default maximum length in characters of identifier names.	Shared		✓	✓	✓	
max-odata-filters	Maximum number of OData filter elements.	OData	100	✓	✓	✓	
max-odata-rewrite-in-count	{res:itgen_pae_max_odata_rewrite_in_count}	OData	500	✓	✓	✓	
max-url-length-accepted	The maximum accepted URL length before raising an error.		8000	✓	✓	✓	
max-url-length-desired	The maximum desired URL length.		8000	✓	✓	✓	
metadata-cache-max-age-sec	Maximum acceptable age in seconds for re-use of metadata.	OData		✓	✓	✓	
oauth-unauthorized-max-tries	Maximum number of tries when an OAuth exception occurs.		2	✓	✓	✓	
oauth-unauthorized-sleep-initial-ms	Initial sleep in milliseconds between OAuth reauthentication tries when the OAuth authentication fails.		10000	✓	✓	✓	
oauth-unauthorized-sleep-max-ms	Maximum sleep in milliseconds between OAuth reauthentication tries when the OAuth authentication fails.		1000	✓	✓	✓	
oauth-unauthorized-sleep-multiplicator	Multiplication factor for sleep between OAuth reauthentication tries when the OAuth authentication fails.		2	✓	✓	✓	
partition-slot-based-rate-limit-length-ms	Total length in milliseconds across all slots of a partition-based rate limit.	Shared	60000	✓		✓	
partition-slot-based-rate-limit-slots	Number of slots per partition-based rate limit. Null means no slot-based rate limit.	Shared		✓		✓	
pre-request-delay-ms	Pre-request delay in milliseconds per request.	Shared	0	✓	✓	✓	
requested-maximum-usable-partitions	Requested Maximum Usable Partitions	Shared		✓	✓	✓	
requested-page-size	Preferred number of rows to exchange per round trip; only effective on limited platforms such as AFAS Online.	Shared		✓	✓	✓	
requests-parallel-max	Maximum number of parallel data requests from individual partitions on the data container.	Shared	32	✓	✓	✓	
simulate-http-400-errors	Simulate HTTP 400 errors when exchanging results with the HTTP end-		False	✓	✓	✓	

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Driver's File	Set from Log On
	point.						
simulate-http-400-errors-percentage	Percentage of simulated HTTP 400 errors w hen exchanging results w ith the HTTP endpoint.		0	✓	✓	✓	
simulate-http-401-errors	Simulate HTTP 401 errors w hen exchanging results w ith the HTTP endpoint.		False	✓	✓	✓	
simulate-http-401-errors-percentage	Percentage of simulated HTTP 401 errors w hen exchanging results w ith the HTTP endpoint.		0	✓	✓	✓	
simulate-http-403-errors	Simulate HTTP 403 errors w hen exchanging results w ith the HTTP endpoint.		False	✓	✓	✓	
simulate-http-403-errors-percentage	Percentage of simulated HTTP 403 errors w hen exchanging results w ith the HTTP endpoint.		0	✓	✓	✓	
simulate-http-408-errors	Simulate HTTP 408 errors w hen exchanging results w ith the HTTP endpoint.		False	✓	✓	✓	
simulate-http-408-errors-percentage	Percentage of simulated HTTP 408 errors w hen exchanging results w ith the HTTP endpoint.		0	✓	✓	✓	
simulate-http-429-errors	Simulate HTTP 429 errors w hen exchanging results w ith the HTTP endpoint.		False	✓	✓	✓	
simulate-http-429-errors-percentage	Percentage of simulated HTTP 429 errors w hen exchanging results w ith the HTTP endpoint.		0	✓	✓	✓	
simulate-http-500-errors	Simulate HTTP 500 errors w hen exchanging results w ith the HTTP endpoint.		False	✓	✓	✓	
simulate-http-500-errors-percentage	Percentage of simulated HTTP 500 errors w hen exchanging results w ith the HTTP endpoint.		0	✓	✓	✓	
simulate-http-502-errors	Simulate HTTP 502 errors w hen exchanging results w ith the HTTP endpoint.		False	✓	✓	✓	
simulate-http-502-errors-percentage	Percentage of simulated HTTP 502 errors w hen exchanging results w ith the HTTP endpoint.		0	✓	✓	✓	
simulate-http-503-errors	Simulate HTTP 503 errors w hen exchanging results w ith the HTTP endpoint.		False	✓	✓	✓	
simulate-http-503-errors-percentage	Percentage of simulated HTTP 503 errors w hen exchanging results w ith the HTTP endpoint.		0	✓	✓	✓	
simulate-http-504-errors	{res:itgen_pae_simulate_http_504_errors}		False	✓	✓	✓	

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Driver's File	Set from Log On
simulate-http-504-errors-percentage	{res:itgen_pae_simulate_http_504_errors_percentage}		0	✓	✓	✓	
simulate-http-522-errors	{res:itgen_pae_simulate_http_522_errors}		False	✓	✓	✓	
simulate-http-522-errors-percentage	{res:itgen_pae_simulate_http_522_errors_percentage}		0	✓	✓	✓	
simulate-http-524-errors	{res:itgen_pae_simulate_http_524_errors}		False	✓	✓	✓	
simulate-http-524-errors-percentage	{res:itgen_pae_simulate_http_524_errors_percentage}		0	✓	✓	✓	
simulate-http-protocol-errors	Simulate HTTP protocol errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
simulate-http-protocol-errors-percentage	Percentage of simulated HTTP protocol errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
simulate-http-timeout-errors	Simulate HTTP timeout errors when exchanging results with the HTTP endpoint..		False	✓	✓	✓	
simulate-http-timeout-errors-percentage	Percentage of simulated HTTP timeout errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
slot-based-rate-limit-length-ms	Total length in milliseconds across all slots of a slot-based rate limit.	Shared	1000	✓		✓	
slot-based-rate-limit-slots	Number of slots of a slot-based rate limit. Null means no slot-based rate limit.	Shared	10	✓		✓	
standardize-identifiers	Rewrite all identifiers to the preferred standards as configured by standardize-identifiers-casing and maximum-length-identifiers.	Shared	True	✓	✓	✓	
standardize-identifiers-casing	Rewrite all identifiers to the recommended standard platform-specific casing when changing a data model on a case-dependent platform.	Shared	True	✓	✓	✓	
use-batch-insert	Whether to use batch insert.	OData	True	✓	✓	✓	
use-http-disk-cache	Combination of use-http-disk-cache-read and use-http-disk-cache-write.			✓	✓	✓	
use-http-disk-cache-read	Whether to use HTTP responses from previous queries stored on disk to answer the current query.		False	✓	✓	✓	
use-http-disk-cache-write	Whether to memorize HTTP responses on disk.		False	✓	✓	✓	
use-http-memory-cache	Combination of use-http-memory-cache-read and use-http-memory-cache-write.			✓	✓	✓	
use-http-memory-cache-read	Whether to use HTTP responses from previous queries stored in		True	✓	✓	✓	

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Driver's File	Set from Log On
	memory that can answer the current query.						
use-http-memory-cache-write	Whether to memorize HTTP responses from previous queries for use by future queries.		True	✓	✓	✓	

3 Catalog: Knack

3.1 Schemas

3.1.1 Schema: DataDictionary

3.1.1.1 Tables

ApplicationByld: Knack Application by ID

Catalog: Knack

Schema: DataDictionary

Primary Keys: id

Label: Application by ID

This is a read-only table function. The Knack API may not support changing the data or the Invariant UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function ApplicationByld. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``select * from table(value1, value2, value3)`` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``select * from table(name1 => value1, name3 => value3)`` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	<input checked="" type="checkbox"/>		

Columns of Table Function

The columns of the table function ApplicationById are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
account_beta_deadline	varchar2		<input type="checkbox"/>	
account_billing_customer_id	varchar2		<input type="checkbox"/>	
account_billing_notice_date	varchar2		<input type="checkbox"/>	
account_billing_status	varchar2		<input type="checkbox"/>	
account_clientid	varchar2		<input type="checkbox"/>	
account_gclid	varchar2		<input type="checkbox"/>	
account_id	varchar2		<input type="checkbox"/>	
account_name	varchar2		<input type="checkbox"/>	
account_plan_limits_storage	int64		<input type="checkbox"/>	
account_plan_limits_transactions	int64		<input type="checkbox"/>	
account_product_plan_ai_credit_limit_monthly	int64		<input type="checkbox"/>	
account_product_plan_api_limit	int64		<input type="checkbox"/>	
account_product_plan_apps	int64		<input type="checkbox"/>	
account_product_plan_babu_unit	varchar2		<input type="checkbox"/>	
account_product_plan_freeze_cost	int64		<input type="checkbox"/>	
account_product_plan_frequency	varchar2		<input type="checkbox"/>	
account_product_plan_id	varchar2		<input type="checkbox"/>	
account_product_plan_name	varchar2		<input type="checkbox"/>	
account_product_plan_price	int64		<input type="checkbox"/>	
account_product_plan_records	int64		<input type="checkbox"/>	
account_product_plan_storage	varchar2		<input type="checkbox"/>	
account_product_plan_subscription_id	varchar2		<input type="checkbox"/>	
account_product_plan_transactions_amount	int64		<input type="checkbox"/>	
account_product_plan_transactions_plan_id_prod	int64		<input type="checkbox"/>	
account_product_plan_transactions_plan_id_test	int64		<input type="checkbox"/>	
account_product_plan_type	varchar2		<input type="checkbox"/>	
account_referral	varchar2		<input type="checkbox"/>	
account_session_user_account_id	varchar2		<input type="checkbox"/>	
account_session_user_created_on	datetime		<input type="checkbox"/>	
account_session_user_email	varchar2		<input type="checkbox"/>	
account_session_user_first_name	varchar2		<input type="checkbox"/>	
account_session_user_id	varchar2		<input type="checkbox"/>	
account_session_user_last_name	varchar2		<input type="checkbox"/>	
account_session_user_utility_key	varchar2		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
account_settings_builder_default_version	varchar2		<input type="checkbox"/>	
account_settings_flow s_language	varchar2		<input type="checkbox"/>	
account_settings_flow s_timezone	varchar2		<input type="checkbox"/>	
account_settings_region	varchar2		<input type="checkbox"/>	
account_slug	varchar2		<input type="checkbox"/>	
account_user_id	varchar2		<input type="checkbox"/>	
asset_size	int64		<input type="checkbox"/>	
count_A_B_C	int64		<input type="checkbox"/>	
count_Accounts	int64		<input type="checkbox"/>	
count_CompaniesExpanded	int64		<input type="checkbox"/>	
count_ContactsExpanded	int64		<input type="checkbox"/>	
count_DateTest	int64		<input type="checkbox"/>	
count_Journals	int64		<input type="checkbox"/>	
count_OrdersObject	int64		<input type="checkbox"/>	
count_ProductsExpanded	int64		<input type="checkbox"/>	
count_TestcaseIUExpanded	int64		<input type="checkbox"/>	
count_TestExpanded	int64		<input type="checkbox"/>	
count_testpho	int64		<input type="checkbox"/>	
description	varchar2		<input type="checkbox"/>	
design_general_buttons_bg_color	varchar2		<input type="checkbox"/>	
design_general_buttons_color	varchar2		<input type="checkbox"/>	
design_general_font	varchar2		<input type="checkbox"/>	
design_general_links_color	varchar2		<input type="checkbox"/>	
design_general_menus_links_buttons_borderThickness	varchar2		<input type="checkbox"/>	
design_general_menus_links_buttons_colors_fill_border_color	varchar2		<input type="checkbox"/>	
design_general_menus_links_buttons_colors_outline_text_color	varchar2		<input type="checkbox"/>	
design_general_menus_links_buttons_format	varchar2		<input type="checkbox"/>	
design_general_tables_spacing	varchar2		<input type="checkbox"/>	
design_general_tables_style	varchar2		<input type="checkbox"/>	
design_general_view s_links_delete_colors_button_color	varchar2		<input type="checkbox"/>	
design_general_view s_links_delete_colors_text_color	varchar2		<input type="checkbox"/>	
design_general_view s_links_page_icon_align	varchar2		<input type="checkbox"/>	
design_regions_header_layout_menuPosition	varchar2		<input type="checkbox"/>	
design_regions_header_legacy_settings_title_logo_filename	varchar2		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
design_regions_header_legacy_settings_title_logo_height	int16		<input type="checkbox"/>	
design_regions_header_legacy_settings_title_logo_size	int64		<input type="checkbox"/>	
design_regions_header_legacy_settings_title_logo_url	varchar2		<input type="checkbox"/>	
design_regions_header_legacy_settings_title_logo_width	int16		<input type="checkbox"/>	
design_regions_header_logo_icon_icon	varchar2		<input type="checkbox"/>	
design_regions_header_logo_image_height	int16		<input type="checkbox"/>	
design_regions_header_logo_image_size	int64		<input type="checkbox"/>	
design_regions_header_logo_image_url	varchar2		<input type="checkbox"/>	
design_regions_header_logo_image_width_pct	int64		<input type="checkbox"/>	
design_regions_header_logo_image_width	int16		<input type="checkbox"/>	
design_regions_header_menu_dropdown_n_menu_links_background_active_color_style	varchar2		<input type="checkbox"/>	
design_regions_header_menu_dropdown_n_menu_links_background_active_color	varchar2		<input type="checkbox"/>	
design_regions_header_menu_dropdown_n_menu_links_background_color	varchar2		<input type="checkbox"/>	
design_regions_header_menu_dropdown_n_menu_links_text_active_colorStyle	varchar2		<input type="checkbox"/>	
design_regions_header_menu_dropdown_n_menu_links_text_color	varchar2		<input type="checkbox"/>	
design_regions_header_menu_format	varchar2		<input type="checkbox"/>	
design_regions_header_menu_links_buttons_size	varchar2		<input type="checkbox"/>	
design_regions_header_menu_links_tabs_colors_background_active_color	varchar2		<input type="checkbox"/>	
design_regions_header_menu_links_text_activeStyle	varchar2		<input type="checkbox"/>	
design_regions_header_menu_links_text_colors_color	varchar2		<input type="checkbox"/>	
design_regions_header_mobile_menu_links_background_active_colorStyle	varchar2		<input type="checkbox"/>	
design_regions_header_mobile_menu_links_background_color	varchar2		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
design_regions_header_title_text	varchar2		<input type="checkbox"/>	
ecommerce_enabled	char		<input type="checkbox"/>	
HERE_appCode	varchar2		<input type="checkbox"/>	
HERE_appld	varchar2		<input type="checkbox"/>	
home_scene_key	varchar2		<input type="checkbox"/>	
home_scene_slug	varchar2		<input type="checkbox"/>	
id	varchar2		<input checked="" type="checkbox"/>	Unique ID.
layout_app_fullwidth	char		<input type="checkbox"/>	
layout_app_menu_auth	char		<input type="checkbox"/>	
layout_entry_scene_menu	char		<input type="checkbox"/>	
layout_page_menu_style	varchar2		<input type="checkbox"/>	
layout_theme	varchar2		<input type="checkbox"/>	
logo_url	varchar2		<input type="checkbox"/>	
name	varchar2		<input checked="" type="checkbox"/>	
s3_application_cdn_domain	varchar2		<input type="checkbox"/>	
s3_bucket	varchar2		<input type="checkbox"/>	
s3_domain	varchar2		<input type="checkbox"/>	
s3_secure_bucket	varchar2		<input type="checkbox"/>	
s3_secure_domain	varchar2		<input type="checkbox"/>	
settings_babu_preseed_status	varchar2		<input type="checkbox"/>	
settings_embed_login_method	varchar2		<input type="checkbox"/>	
settings_from_email	varchar2		<input type="checkbox"/>	
settings_inactivity_timeout	int64		<input type="checkbox"/>	
settings_last_update	varchar2		<input type="checkbox"/>	
settings_logo	varchar2		<input type="checkbox"/>	
settings_runner	varchar2		<input type="checkbox"/>	
settings_sql	varchar2		<input type="checkbox"/>	
settings_technical_contact	varchar2		<input type="checkbox"/>	
settings_timezone_dst	int64		<input type="checkbox"/>	
settings_timezone_offset	int64		<input type="checkbox"/>	
slug	varchar2		<input type="checkbox"/>	
status	varchar2		<input type="checkbox"/>	
subdomain	varchar2		<input type="checkbox"/>	
total_entries	int64		<input type="checkbox"/>	
users_enabled	char		<input type="checkbox"/>	
users_registration	varchar2		<input type="checkbox"/>	
users_scope	varchar2		<input type="checkbox"/>	
users_templates_all_users_info	varchar2		<input type="checkbox"/>	
users_templates_profile_15_info	varchar2		<input type="checkbox"/>	

Applications: Knack Applications

Catalog: Knack

Schema: DataDictionary

Primary Keys: id

Label: Applications

This is a read-only table. The Knack API may not support changing the data or the Invariantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Table Columns

The columns of the table Applications are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
account_beta_deadline	varchar2		<input type="checkbox"/>	
account_billing_customer_id	varchar2		<input type="checkbox"/>	
account_billing_notice_date	varchar2		<input type="checkbox"/>	
account_billing_status	varchar2		<input type="checkbox"/>	
account_clientid	varchar2		<input type="checkbox"/>	
account_gclid	varchar2		<input type="checkbox"/>	
account_id	varchar2		<input type="checkbox"/>	
account_name	varchar2		<input type="checkbox"/>	
account_plan_limits_storage	int64		<input type="checkbox"/>	
account_plan_limits_transactions	int64		<input type="checkbox"/>	
account_product_plan_ai_credit_limit_monthly	int64		<input type="checkbox"/>	
account_product_plan_api_limit	int64		<input type="checkbox"/>	
account_product_plan_apps	int64		<input type="checkbox"/>	
account_product_plan_babu_unit	varchar2		<input type="checkbox"/>	
account_product_plan_freeze_cost	int64		<input type="checkbox"/>	
account_product_plan_frequency	varchar2		<input type="checkbox"/>	
account_product_plan_id	varchar2		<input type="checkbox"/>	
account_product_plan_name	varchar2		<input type="checkbox"/>	
account_product_plan_price	int64		<input type="checkbox"/>	
account_product_plan_records	int64		<input type="checkbox"/>	
account_product_plan_storage	varchar2		<input type="checkbox"/>	
account_product_plan_subscription_id	varchar2		<input type="checkbox"/>	
account_product_plan_transactions_amount	int64		<input type="checkbox"/>	
account_product_plan_transactions_plan_id_prod	int64		<input type="checkbox"/>	
account_product_plan_transactions_plan_id_test	int64		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
account_product_plan_type	varchar2		<input type="checkbox"/>	
account_referral	varchar2		<input type="checkbox"/>	
account_session_user_account_id	varchar2		<input type="checkbox"/>	
account_session_user_created_on	datetime		<input type="checkbox"/>	
account_session_user_email	varchar2		<input type="checkbox"/>	
account_session_user_first_name	varchar2		<input type="checkbox"/>	
account_session_user_id	varchar2		<input type="checkbox"/>	
account_session_user_last_name	varchar2		<input type="checkbox"/>	
account_session_user_utility_key	varchar2		<input type="checkbox"/>	
account_settings_builder_default_version	varchar2		<input type="checkbox"/>	
account_settings_flow_s_language	varchar2		<input type="checkbox"/>	
account_settings_flow_s_timezone	varchar2		<input type="checkbox"/>	
account_settings_region	varchar2		<input type="checkbox"/>	
account_slug	varchar2		<input type="checkbox"/>	
account_user_id	varchar2		<input type="checkbox"/>	
asset_size	int64		<input type="checkbox"/>	
count_A_B_C	int64		<input type="checkbox"/>	
count_Accounts	int64		<input type="checkbox"/>	
count_CompaniesExpanded	int64		<input type="checkbox"/>	
count_ContactsExpanded	int64		<input type="checkbox"/>	
count_DateTest	int64		<input type="checkbox"/>	
count_Journals	int64		<input type="checkbox"/>	
count_OrdersObject	int64		<input type="checkbox"/>	
count_ProductsExpanded	int64		<input type="checkbox"/>	
count_TestcaseIUDExpanded	int64		<input type="checkbox"/>	
count_TestExpanded	int64		<input type="checkbox"/>	
count_testpho	int64		<input type="checkbox"/>	
description	varchar2		<input type="checkbox"/>	
design_general_buttons_bg_color	varchar2		<input type="checkbox"/>	
design_general_buttons_color	varchar2		<input type="checkbox"/>	
design_general_font	varchar2		<input type="checkbox"/>	
design_general_links_color	varchar2		<input type="checkbox"/>	
design_general_menus_links_buttons_borderThickness	varchar2		<input type="checkbox"/>	
design_general_menus_links_buttons_colors_fill_border_color	varchar2		<input type="checkbox"/>	
design_general_menus_links_buttons_colors_outline_text_color	varchar2		<input type="checkbox"/>	
design_general_menus_links_buttons_format	varchar2		<input type="checkbox"/>	
design_general_tables_spacing	varchar2		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
design_general_tables_style	varchar2		<input type="checkbox"/>	
design_general_views_links_delete_colors_button_color	varchar2		<input type="checkbox"/>	
design_general_views_links_delete_colors_text_color	varchar2		<input type="checkbox"/>	
design_general_views_links_page_icon_align	varchar2		<input type="checkbox"/>	
design_regions_header_layout_menuPosition	varchar2		<input type="checkbox"/>	
design_regions_header_legacy_settings_title_logo_filename	varchar2		<input type="checkbox"/>	
design_regions_header_legacy_settings_title_logo_height	int16		<input type="checkbox"/>	
design_regions_header_legacy_settings_title_logo_size	int64		<input type="checkbox"/>	
design_regions_header_legacy_settings_title_logo_url	varchar2		<input type="checkbox"/>	
design_regions_header_legacy_settings_title_logo_width	int16		<input type="checkbox"/>	
design_regions_header_logo_icon_icon	varchar2		<input type="checkbox"/>	
design_regions_header_logo_image_height	int16		<input type="checkbox"/>	
design_regions_header_logo_image_size	int64		<input type="checkbox"/>	
design_regions_header_logo_image_url	varchar2		<input type="checkbox"/>	
design_regions_header_logo_image_width_pct	int64		<input type="checkbox"/>	
design_regions_header_logo_image_width	int16		<input type="checkbox"/>	
design_regions_header_menu_dropdown_menu_links_background_active_color_style	varchar2		<input type="checkbox"/>	
design_regions_header_menu_dropdown_menu_links_background_active_color	varchar2		<input type="checkbox"/>	
design_regions_header_menu_dropdown_menu_links_background_color	varchar2		<input type="checkbox"/>	
design_regions_header_menu_dropdown_menu_links_text_active_colorStyle	varchar2		<input type="checkbox"/>	
design_regions_header_menu_dropdown_menu_links_text_color	varchar2		<input type="checkbox"/>	
design_regions_header_menu_format	varchar2		<input type="checkbox"/>	
design_regions_header_menu_links_buttons_size	varchar2		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
design_regions_header_- menu_links_tabs_colors_back- ground_active_color	varchar2		<input type="checkbox"/>	
design_regions_header_- menu_links_text_activeStyle	varchar2		<input type="checkbox"/>	
design_regions_header_- menu_links_text_colors_color	varchar2		<input type="checkbox"/>	
design_regions_header_menu_- mobile_menu_links_back- ground_active_colorStyle	varchar2		<input type="checkbox"/>	
design_regions_header_menu_- mobile_menu_links_background_- color	varchar2		<input type="checkbox"/>	
design_regions_header_title_text	varchar2		<input type="checkbox"/>	
ecommerce_enabled	char		<input type="checkbox"/>	
HERE_appCode	varchar2		<input type="checkbox"/>	
HERE_appld	varchar2		<input type="checkbox"/>	
home_scene_key	varchar2		<input type="checkbox"/>	
home_scene_slug	varchar2		<input type="checkbox"/>	
id	varchar2		<input checked="" type="checkbox"/>	Unique ID.
layout_app_fullwidth	char		<input type="checkbox"/>	
layout_app_menu_auth	char		<input type="checkbox"/>	
layout_entry_scene_menu	char		<input type="checkbox"/>	
layout_page_menu_style	varchar2		<input type="checkbox"/>	
layout_theme	varchar2		<input type="checkbox"/>	
logo_url	varchar2		<input type="checkbox"/>	
name	varchar2		<input checked="" type="checkbox"/>	
s3_application_cdn_domain	varchar2		<input type="checkbox"/>	
s3_bucket	varchar2		<input type="checkbox"/>	
s3_domain	varchar2		<input type="checkbox"/>	
s3_secure_bucket	varchar2		<input type="checkbox"/>	
s3_secure_domain	varchar2		<input type="checkbox"/>	
settings_babu_preseed_status	varchar2		<input type="checkbox"/>	
settings_embed_login_method	varchar2		<input type="checkbox"/>	
settings_from_email	varchar2		<input type="checkbox"/>	
settings_inactivity_timeout	int64		<input type="checkbox"/>	
settings_last_update	varchar2		<input type="checkbox"/>	
settings_logo	varchar2		<input type="checkbox"/>	
settings_runner	varchar2		<input type="checkbox"/>	
settings_sql	varchar2		<input type="checkbox"/>	
settings_technical_contact	varchar2		<input type="checkbox"/>	
settings_timezone_dst	int64		<input type="checkbox"/>	
settings_timezone_offset	int64		<input type="checkbox"/>	
slug	varchar2		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
status	varchar2		<input type="checkbox"/>	
subdomain	varchar2		<input type="checkbox"/>	
total_entries	int64		<input type="checkbox"/>	
users_enabled	char		<input type="checkbox"/>	
users_registration	varchar2		<input type="checkbox"/>	
users_scope	varchar2		<input type="checkbox"/>	
users_templates_all_users_info	varchar2		<input type="checkbox"/>	
users_templates_profile_15_info	varchar2		<input type="checkbox"/>	

ObjectFields

Catalog: Knack

Schema: DataDictionary

Primary Keys: id

This is a read-only table. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Table Columns

The columns of the table ObjectFields are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	<input checked="" type="checkbox"/>	
application_name	varchar2		<input checked="" type="checkbox"/>	
code	varchar2		<input type="checkbox"/>	Code.
conditional	char		<input type="checkbox"/>	
conn_default	varchar2		<input type="checkbox"/>	
default	varchar2		<input type="checkbox"/>	
format_blank	varchar2		<input type="checkbox"/>	
format_calendar	varchar2		<input type="checkbox"/>	
format_conn_default	varchar2		<input type="checkbox"/>	
format_connection_key	varchar2		<input type="checkbox"/>	
format_connection	varchar2		<input type="checkbox"/>	
format_count_field	varchar2		<input type="checkbox"/>	
format_date_format	varchar2		<input type="checkbox"/>	
format_date_result	varchar2		<input type="checkbox"/>	
format_date_type	varchar2		<input type="checkbox"/>	
format_default_date	varchar2		<input type="checkbox"/>	
format_default_time	varchar2		<input type="checkbox"/>	
format_default_type	varchar2		<input type="checkbox"/>	
format_default	varchar2		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
format_enable_geocoding	varchar2		<input type="checkbox"/>	
format_equation_type	varchar2		<input type="checkbox"/>	
format_equation	varchar2		<input type="checkbox"/>	
format_field_key	varchar2		<input type="checkbox"/>	
format_format	varchar2		<input type="checkbox"/>	
format_formula_field	varchar2		<input type="checkbox"/>	
format_input	varchar2		<input type="checkbox"/>	
format_label	varchar2		<input type="checkbox"/>	
format_mark_decimal	varchar2		<input type="checkbox"/>	
format_mark_thousands	varchar2		<input type="checkbox"/>	
format_max	varchar2		<input type="checkbox"/>	
format_method	varchar2		<input type="checkbox"/>	
format_min	varchar2		<input type="checkbox"/>	
format_post	varchar2		<input type="checkbox"/>	
format_pre	varchar2		<input type="checkbox"/>	
format_precision	int16		<input type="checkbox"/>	
format_resize_max_width	int16		<input type="checkbox"/>	
format_resize_type	varchar2		<input type="checkbox"/>	
format_rounding	varchar2		<input type="checkbox"/>	
format_separator	varchar2		<input type="checkbox"/>	
format_sorting	varchar2		<input type="checkbox"/>	
format_source	varchar2		<input type="checkbox"/>	
format_target	varchar2		<input type="checkbox"/>	
format_text_format	varchar2		<input type="checkbox"/>	
format_text	varchar2		<input type="checkbox"/>	
format_time_format	varchar2		<input type="checkbox"/>	
format_time_type	varchar2		<input type="checkbox"/>	
format_type	varchar2		<input type="checkbox"/>	
id	varchar2		<input type="checkbox"/>	Unique ID.
immutable	char		<input type="checkbox"/>	
is_system_field	char		<input type="checkbox"/>	
key	varchar2		<input type="checkbox"/>	Key.
meta_description	varchar2		<input type="checkbox"/>	
name	varchar2		<input type="checkbox"/>	Name.
object_id	varchar2		<input checked="" type="checkbox"/>	
object_key	varchar2		<input checked="" type="checkbox"/>	
object_name	varchar2		<input checked="" type="checkbox"/>	
relationship_belongs_to	varchar2		<input type="checkbox"/>	
relationship_has	varchar2		<input type="checkbox"/>	
relationship_object	varchar2		<input type="checkbox"/>	
required	char		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
type	varchar2		<input type="checkbox"/>	
unique	char		<input type="checkbox"/>	
user	char		<input type="checkbox"/>	

ObjectFieldsByApplicationId

Catalog: Knack

Schema: DataDictionary

Primary Keys: id

This is a read-only table function. The Knack API may not support changing the data or the Invariantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function ObjectFieldsByApplicationId. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``select * from table(value1, value2, value3)`` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``select * from table(name1 => value1, name3 => value3)`` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	<input checked="" type="checkbox"/>		

Columns of Table Function

The columns of the table function ObjectFieldsByApplicationId are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	<input checked="" type="checkbox"/>	
application_name	varchar2		<input checked="" type="checkbox"/>	
code	varchar2		<input type="checkbox"/>	Code.
conditional	char		<input type="checkbox"/>	
conn_default	varchar2		<input type="checkbox"/>	
default	varchar2		<input type="checkbox"/>	
format_blank	varchar2		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
format_calendar	varchar2		<input type="checkbox"/>	
format_conn_default	varchar2		<input type="checkbox"/>	
format_connection_key	varchar2		<input type="checkbox"/>	
format_connection	varchar2		<input type="checkbox"/>	
format_count_field	varchar2		<input type="checkbox"/>	
format_date_format	varchar2		<input type="checkbox"/>	
format_date_result	varchar2		<input type="checkbox"/>	
format_date_type	varchar2		<input type="checkbox"/>	
format_default_date	varchar2		<input type="checkbox"/>	
format_default_time	varchar2		<input type="checkbox"/>	
format_default_type	varchar2		<input type="checkbox"/>	
format_default	varchar2		<input type="checkbox"/>	
format_enable_geocoding	varchar2		<input type="checkbox"/>	
format_equation_type	varchar2		<input type="checkbox"/>	
format_equation	varchar2		<input type="checkbox"/>	
format_field_key	varchar2		<input type="checkbox"/>	
format_format	varchar2		<input type="checkbox"/>	
format_formula_field	varchar2		<input type="checkbox"/>	
format_input	varchar2		<input type="checkbox"/>	
format_label	varchar2		<input type="checkbox"/>	
format_mark_decimal	varchar2		<input type="checkbox"/>	
format_mark_thousands	varchar2		<input type="checkbox"/>	
format_max	varchar2		<input type="checkbox"/>	
format_method	varchar2		<input type="checkbox"/>	
format_min	varchar2		<input type="checkbox"/>	
format_post	varchar2		<input type="checkbox"/>	
format_pre	varchar2		<input type="checkbox"/>	
format_precision	int16		<input type="checkbox"/>	
format_resize_max_width	int16		<input type="checkbox"/>	
format_resize_type	varchar2		<input type="checkbox"/>	
format_rounding	varchar2		<input type="checkbox"/>	
format_separator	varchar2		<input type="checkbox"/>	
format_sorting	varchar2		<input type="checkbox"/>	
format_source	varchar2		<input type="checkbox"/>	
format_target	varchar2		<input type="checkbox"/>	
format_text_format	varchar2		<input type="checkbox"/>	
format_text	varchar2		<input type="checkbox"/>	
format_time_format	varchar2		<input type="checkbox"/>	
format_time_type	varchar2		<input type="checkbox"/>	
format_type	varchar2		<input type="checkbox"/>	
id	varchar2		<input type="checkbox"/>	Unique ID.

Name	Data Type	Label	Required	Documentation
immutable	char		<input type="checkbox"/>	
is_system_field	char		<input type="checkbox"/>	
key	varchar2		<input type="checkbox"/>	Key.
meta_description	varchar2		<input type="checkbox"/>	
name	varchar2		<input type="checkbox"/>	Name.
object_id	varchar2		<input checked="" type="checkbox"/>	
object_key	varchar2		<input checked="" type="checkbox"/>	
object_name	varchar2		<input checked="" type="checkbox"/>	
relationship_belongs_to	varchar2		<input type="checkbox"/>	
relationship_has	varchar2		<input type="checkbox"/>	
relationship_object	varchar2		<input type="checkbox"/>	
required	char		<input type="checkbox"/>	
type	varchar2		<input type="checkbox"/>	
unique	char		<input type="checkbox"/>	
user	char		<input type="checkbox"/>	

ObjectFieldValidations

Catalog: Knack

Schema: DataDictionary

This is a read-only table. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Table Columns

The columns of the table ObjectFieldValidations are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	<input checked="" type="checkbox"/>	
application_name	varchar2		<input checked="" type="checkbox"/>	
field_code	varchar2		<input type="checkbox"/>	Field code.
field_id	varchar2		<input type="checkbox"/>	Field unique ID.
field_key	varchar2		<input type="checkbox"/>	Field key.
field_name	varchar2		<input type="checkbox"/>	Field name.
key	varchar2		<input type="checkbox"/>	Key.
message	varchar2		<input type="checkbox"/>	Message.
object_id	varchar2		<input checked="" type="checkbox"/>	
object_key	varchar2		<input checked="" type="checkbox"/>	
object_name	varchar2		<input checked="" type="checkbox"/>	
value	varchar2		<input type="checkbox"/>	Value.

ObjectFieldValidationsByApplicationId

Catalog: Knack

Schema: DataDictionary

This is a read-only table function. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function ObjectFieldValidationsByApplicationId. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``select * from table(value1, value2, value3)`` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``select * from table(name1 => value1, name3 => value3)`` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	<input checked="" type="checkbox"/>		

Columns of Table Function

The columns of the table function ObjectFieldValidationsByApplicationId are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	<input checked="" type="checkbox"/>	
application_name	varchar2		<input checked="" type="checkbox"/>	
field_code	varchar2		<input type="checkbox"/>	Field code.
field_id	varchar2		<input type="checkbox"/>	Field unique ID.
field_key	varchar2		<input type="checkbox"/>	Field key.
field_name	varchar2		<input type="checkbox"/>	Field name.
key	varchar2		<input type="checkbox"/>	Key.
message	varchar2		<input type="checkbox"/>	Message.
object_id	varchar2		<input checked="" type="checkbox"/>	
object_key	varchar2		<input checked="" type="checkbox"/>	
object_name	varchar2		<input checked="" type="checkbox"/>	
value	varchar2		<input type="checkbox"/>	Value.

ObjectInboundConnections

Catalog: Knack

Schema: DataDictionary

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Table Columns

The columns of the table ObjectInboundConnections are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	<input checked="" type="checkbox"/>	
application_name	varchar2		<input checked="" type="checkbox"/>	
belongs_to	varchar2		<input checked="" type="checkbox"/>	
field_inflections_plural	varchar2		<input checked="" type="checkbox"/>	
field_inflections_singular	varchar2		<input checked="" type="checkbox"/>	
field_name	varchar2		<input checked="" type="checkbox"/>	
has	varchar2		<input checked="" type="checkbox"/>	
key	varchar2		<input checked="" type="checkbox"/>	
name	varchar2		<input checked="" type="checkbox"/>	
object_id	varchar2		<input checked="" type="checkbox"/>	
object_key	varchar2		<input checked="" type="checkbox"/>	
object_name	varchar2		<input checked="" type="checkbox"/>	
object	varchar2		<input checked="" type="checkbox"/>	

ObjectInboundConnectionsByApplicationId

Catalog: Knack

Schema: DataDictionary

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Parameters of Table Function

The following parameters can be used to control the behaviour of the table function ObjectInboundConnectionsByApplicationId. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``select * from table(value1, value2, value3)`` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

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Name	Data Type	Required	Default Value	Documentation
id	varchar2	<input checked="" type="checkbox"/>		

Columns of Table Function

The columns of the table function ObjectInboundConnectionsByApplicationId are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	<input checked="" type="checkbox"/>	
application_name	varchar2		<input checked="" type="checkbox"/>	
belongs_to	varchar2		<input checked="" type="checkbox"/>	
field_inflections_plural	varchar2		<input checked="" type="checkbox"/>	
field_inflections_singular	varchar2		<input checked="" type="checkbox"/>	
field_name	varchar2		<input checked="" type="checkbox"/>	
has	varchar2		<input checked="" type="checkbox"/>	
key	varchar2		<input checked="" type="checkbox"/>	
name	varchar2		<input checked="" type="checkbox"/>	
object_id	varchar2		<input checked="" type="checkbox"/>	
object_key	varchar2		<input checked="" type="checkbox"/>	
object_name	varchar2		<input checked="" type="checkbox"/>	
object	varchar2		<input checked="" type="checkbox"/>	

ObjectOutboundConnections

Catalog: Knack

Schema: DataDictionary

This is a read-only table. The Knack API may not support changing the data or the Invtative UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Table Columns

The columns of the table ObjectOutboundConnections are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	<input checked="" type="checkbox"/>	
application_name	varchar2		<input checked="" type="checkbox"/>	
belongs_to	varchar2		<input checked="" type="checkbox"/>	
field_inflections_plural	varchar2		<input checked="" type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
field_inflections_singular	varchar2		<input checked="" type="checkbox"/>	
field_name	varchar2		<input checked="" type="checkbox"/>	
has	varchar2		<input checked="" type="checkbox"/>	
key	varchar2		<input checked="" type="checkbox"/>	
name	varchar2		<input checked="" type="checkbox"/>	
object_id	varchar2		<input checked="" type="checkbox"/>	
object_key	varchar2		<input checked="" type="checkbox"/>	
object_name	varchar2		<input checked="" type="checkbox"/>	
object	varchar2		<input checked="" type="checkbox"/>	

ObjectOutboundConnectionsByApplicationId

Catalog: Knack

Schema: DataDictionary

This is a read-only table function. The Knack API may not support changing the data or the Invariantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function ObjectOutboundConnectionsByApplicationId. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``select * from table(value1, value2, value3)`` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``select * from table(name1 => value1, name3 => value3)`` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	<input checked="" type="checkbox"/>		

Columns of Table Function

The columns of the table function ObjectOutboundConnectionsByApplicationId are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	<input checked="" type="checkbox"/>	
application_name	varchar2		<input checked="" type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
belongs_to	varchar2		<input checked="" type="checkbox"/>	
field_inflections_plural	varchar2		<input checked="" type="checkbox"/>	
field_inflections_singular	varchar2		<input checked="" type="checkbox"/>	
field_name	varchar2		<input checked="" type="checkbox"/>	
has	varchar2		<input checked="" type="checkbox"/>	
key	varchar2		<input checked="" type="checkbox"/>	
name	varchar2		<input checked="" type="checkbox"/>	
object_id	varchar2		<input checked="" type="checkbox"/>	
object_key	varchar2		<input checked="" type="checkbox"/>	
object_name	varchar2		<input checked="" type="checkbox"/>	
object	varchar2		<input checked="" type="checkbox"/>	

ObjectRuleCriteria

Catalog: Knack

Schema: DataDictionary

This is a read-only table. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Table Columns

The columns of the table ObjectRuleCriteria are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	<input checked="" type="checkbox"/>	
application_name	varchar2		<input checked="" type="checkbox"/>	
field_code	varchar2		<input type="checkbox"/>	Field code.
field_id	varchar2		<input type="checkbox"/>	Field unique ID.
field_key	varchar2		<input type="checkbox"/>	Field key.
field_name	varchar2		<input type="checkbox"/>	Field name.
field	varchar2		<input type="checkbox"/>	Field.
object_id	varchar2		<input checked="" type="checkbox"/>	
object_key	varchar2		<input checked="" type="checkbox"/>	
object_name	varchar2		<input checked="" type="checkbox"/>	
operator	varchar2		<input type="checkbox"/>	operator.
rule_key	varchar2		<input type="checkbox"/>	Rule key.
value_all_day	char		<input type="checkbox"/>	Value all day.
value_am_pm	varchar2		<input type="checkbox"/>	Value AM/PM.
value_date	varchar2		<input type="checkbox"/>	Value date.
value_field	varchar2		<input type="checkbox"/>	Value field.
value_hours	varchar2		<input type="checkbox"/>	Value hours.

Name	Data Type	Label	Required	Documentation
value_minutes	varchar2		<input type="checkbox"/>	Value minutes.
value_time	varchar2		<input type="checkbox"/>	Value time.
value_type	varchar2		<input type="checkbox"/>	Value type.
value	varchar2		<input type="checkbox"/>	Value.

ObjectRuleCriteriaByApplicationId

Catalog: Knack

Schema: DataDictionary

This is a read-only table function. The Knack API may not support changing the data or the Invariantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function ObjectRuleCriteriaByApplicationId. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``select * from table(value1, value2, value3)`` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``select * from table(name1 => value1, name3 => value3)`` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	<input checked="" type="checkbox"/>		

Columns of Table Function

The columns of the table function ObjectRuleCriteriaByApplicationId are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	<input checked="" type="checkbox"/>	
application_name	varchar2		<input checked="" type="checkbox"/>	
field_code	varchar2		<input type="checkbox"/>	Field code.
field_id	varchar2		<input type="checkbox"/>	Field unique ID.
field_key	varchar2		<input type="checkbox"/>	Field key.
field_name	varchar2		<input type="checkbox"/>	Field name.
field	varchar2		<input type="checkbox"/>	Field.

Name	Data Type	Label	Required	Documentation
object_id	varchar2		<input checked="" type="checkbox"/>	
object_key	varchar2		<input checked="" type="checkbox"/>	
object_name	varchar2		<input checked="" type="checkbox"/>	
operator	varchar2		<input type="checkbox"/>	operator.
rule_key	varchar2		<input type="checkbox"/>	Rule key.
value_all_day	char		<input type="checkbox"/>	Value all day.
value_am_pm	varchar2		<input type="checkbox"/>	Value AM/PM.
value_date	varchar2		<input type="checkbox"/>	Value date.
value_field	varchar2		<input type="checkbox"/>	Value field.
value_hours	varchar2		<input type="checkbox"/>	Value hours.
value_minutes	varchar2		<input type="checkbox"/>	Value minutes.
value_time	varchar2		<input type="checkbox"/>	Value time.
value_type	varchar2		<input type="checkbox"/>	Value type.
value	varchar2		<input type="checkbox"/>	Value.

ObjectRules

Catalog: Knack

Schema: DataDictionary

This is a read-only table. The Knack API may not support changing the data or the Invariantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Table Columns

The columns of the table ObjectRules are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
action	varchar2		<input type="checkbox"/>	Action.
application_id	varchar2	Application ID	<input checked="" type="checkbox"/>	
application_name	varchar2		<input checked="" type="checkbox"/>	
connection	varchar2		<input type="checkbox"/>	Connection.
field_code	varchar2		<input type="checkbox"/>	Field code.
field_id	varchar2		<input type="checkbox"/>	Field unique ID.
field_key	varchar2		<input type="checkbox"/>	Field key.
field_name	varchar2		<input type="checkbox"/>	Field name.
key	varchar2		<input type="checkbox"/>	Key.
object_id	varchar2		<input checked="" type="checkbox"/>	
object_key	varchar2		<input checked="" type="checkbox"/>	
object_name	varchar2		<input checked="" type="checkbox"/>	

ObjectRulesByApplicationId

Catalog: Knack

Schema: DataDictionary

This is a read-only table function. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function ObjectRulesByApplicationId. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``select * from table(value1, value2, value3)`` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``select * from table(name1 => value1, name3 => value3)`` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	<input checked="" type="checkbox"/>		

Columns of Table Function

The columns of the table function ObjectRulesByApplicationId are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
action	varchar2		<input type="checkbox"/>	Action.
application_id	varchar2	Application ID	<input checked="" type="checkbox"/>	
application_name	varchar2		<input checked="" type="checkbox"/>	
connection	varchar2		<input type="checkbox"/>	Connection.
field_code	varchar2		<input type="checkbox"/>	Field code.
field_id	varchar2		<input type="checkbox"/>	Field unique ID.
field_key	varchar2		<input type="checkbox"/>	Field key.
field_name	varchar2		<input type="checkbox"/>	Field name.
key	varchar2		<input type="checkbox"/>	Key.
object_id	varchar2		<input checked="" type="checkbox"/>	
object_key	varchar2		<input checked="" type="checkbox"/>	
object_name	varchar2		<input checked="" type="checkbox"/>	

ObjectRuleValues

Catalog: Knack

Schema: DataDictionary

This is a read-only table. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Table Columns

The columns of the table ObjectRuleValues are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	<input checked="" type="checkbox"/>	
application_name	varchar2		<input checked="" type="checkbox"/>	
connection_field	varchar2		<input type="checkbox"/>	Connection field.
field_code	varchar2		<input type="checkbox"/>	Field code.
field_id	varchar2		<input type="checkbox"/>	Field unique ID.
field_key	varchar2		<input type="checkbox"/>	Field key.
field_name	varchar2		<input type="checkbox"/>	Field name.
field	varchar2		<input type="checkbox"/>	Field.
input	varchar2		<input type="checkbox"/>	Input.
object_id	varchar2		<input checked="" type="checkbox"/>	
object_key	varchar2		<input checked="" type="checkbox"/>	
object_name	varchar2		<input checked="" type="checkbox"/>	
rule_key	varchar2		<input type="checkbox"/>	Rule key.
type	varchar2		<input type="checkbox"/>	Type.
value_all_day	char		<input type="checkbox"/>	Value all day.
value_am_pm	varchar2		<input type="checkbox"/>	Value AM/PM.
value_date	varchar2		<input type="checkbox"/>	Value date.
value_hours	varchar2		<input type="checkbox"/>	Value hours.
value_minutes	varchar2		<input type="checkbox"/>	Value minutes.
value_time	varchar2		<input type="checkbox"/>	Value time.
value	varchar2		<input type="checkbox"/>	Value.

ObjectRuleValuesByApplicationId

Catalog: Knack

Schema: DataDictionary

This is a read-only table function. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function `ObjectRuleValuesByApplicationId`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``select * from table(value1, value2, value3)`` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``select * from table(name1 => value1, name3 => value3)`` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	<input checked="" type="checkbox"/>		

Columns of Table Function

The columns of the table function `ObjectRuleValuesByApplicationId` are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	<input checked="" type="checkbox"/>	
application_name	varchar2		<input checked="" type="checkbox"/>	
connection_field	varchar2		<input type="checkbox"/>	Connection field.
field_code	varchar2		<input type="checkbox"/>	Field code.
field_id	varchar2		<input type="checkbox"/>	Field unique ID.
field_key	varchar2		<input type="checkbox"/>	Field key.
field_name	varchar2		<input type="checkbox"/>	Field name.
field	varchar2		<input type="checkbox"/>	Field.
input	varchar2		<input type="checkbox"/>	Input.
object_id	varchar2		<input checked="" type="checkbox"/>	
object_key	varchar2		<input checked="" type="checkbox"/>	
object_name	varchar2		<input checked="" type="checkbox"/>	
rule_key	varchar2		<input type="checkbox"/>	Rule key.
type	varchar2		<input type="checkbox"/>	Type.
value_all_day	char		<input type="checkbox"/>	Value all day.
value_am_pm	varchar2		<input type="checkbox"/>	Value AM/PM.
value_date	varchar2		<input type="checkbox"/>	Value date.
value_hours	varchar2		<input type="checkbox"/>	Value hours.
value_minutes	varchar2		<input type="checkbox"/>	Value minutes.
value_time	varchar2		<input type="checkbox"/>	Value time.
value	varchar2		<input type="checkbox"/>	Value.

Objects: Knack Knack Objects

Catalog: Knack

Schema: DataDictionary

Primary Keys: id

Label: Knack Objects

This is a read-only table. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Table Columns

The columns of the table Objects are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	<input checked="" type="checkbox"/>	
application_name	varchar2		<input checked="" type="checkbox"/>	
id	varchar2		<input checked="" type="checkbox"/>	Unique ID.
identifier	varchar2		<input type="checkbox"/>	
inflections_plural	varchar2		<input type="checkbox"/>	
inflections_singular	varchar2		<input type="checkbox"/>	
key	varchar2		<input checked="" type="checkbox"/>	
name	varchar2		<input checked="" type="checkbox"/>	
profile_key	varchar2		<input type="checkbox"/>	
schema_change_in_progress	char		<input type="checkbox"/>	
sort_field	varchar2		<input type="checkbox"/>	
sort_order	varchar2		<input type="checkbox"/>	
status	varchar2		<input type="checkbox"/>	
template	varchar2		<input type="checkbox"/>	
type	varchar2		<input type="checkbox"/>	
user	char		<input type="checkbox"/>	
uuid	guid		<input type="checkbox"/>	

ObjectsByApplicationId

Catalog: Knack

Schema: DataDictionary

Primary Keys: id

This is a read-only table function. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function Object-sByApplicationId. A value must be provided at all times for required parameters, but optional

parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``select * from table(value1, value2, value3)`` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``select * from table(name1 => value1, name3 => value3)`` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	<input checked="" type="checkbox"/>		

Columns of Table Function

The columns of the table function `ObjectsByApplicationId` are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	<input checked="" type="checkbox"/>	
application_name	varchar2		<input checked="" type="checkbox"/>	
id	varchar2		<input checked="" type="checkbox"/>	Unique ID.
identifier	varchar2		<input type="checkbox"/>	
inflections_plural	varchar2		<input type="checkbox"/>	
inflections_singular	varchar2		<input type="checkbox"/>	
key	varchar2		<input checked="" type="checkbox"/>	
name	varchar2		<input checked="" type="checkbox"/>	
profile_key	varchar2		<input type="checkbox"/>	
schema_change_in_progress	char		<input type="checkbox"/>	
sort_field	varchar2		<input type="checkbox"/>	
sort_order	varchar2		<input type="checkbox"/>	
status	varchar2		<input type="checkbox"/>	
template	varchar2		<input type="checkbox"/>	
type	varchar2		<input type="checkbox"/>	
user	char		<input type="checkbox"/>	
uuid	guid		<input type="checkbox"/>	

Scenes

Catalog: Knack

Schema: DataDictionary

Primary Keys: id

This is a read-only table. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Table Columns

The columns of the table Scenes are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	<input checked="" type="checkbox"/>	
application_name	varchar2		<input checked="" type="checkbox"/>	
authenticated	char		<input type="checkbox"/>	
icon_align	varchar2		<input type="checkbox"/>	
icon_icon	varchar2		<input type="checkbox"/>	
id	varchar2		<input checked="" type="checkbox"/>	Unique ID.
ignore_entry_scene_menu	char		<input type="checkbox"/>	
key	varchar2		<input checked="" type="checkbox"/>	
limit_profile_access	varchar2		<input type="checkbox"/>	
menu	varchar2		<input type="checkbox"/>	
modal_prevent_background_click_close	char		<input type="checkbox"/>	
modal_prevent_background_click_close_name	varchar2		<input type="checkbox"/>	
modal	char		<input type="checkbox"/>	
name	varchar2		<input type="checkbox"/>	
object_key	varchar2		<input type="checkbox"/>	
page_menu_display	varchar2		<input type="checkbox"/>	
parent	varchar2		<input type="checkbox"/>	
print	char		<input type="checkbox"/>	
slug	varchar2		<input type="checkbox"/>	
source_view	varchar2		<input type="checkbox"/>	
type	varchar2		<input type="checkbox"/>	
uuid	guid		<input type="checkbox"/>	

ScenesByApplicationId

Catalog: Knack

Schema: DataDictionary

Primary Keys: id

This is a read-only table function. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function `ScenesByApplicationId`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``select * from table(value1, value2, value3)`` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``select * from table(name1 => value1, name3 => value3)`` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	<input checked="" type="checkbox"/>		

Columns of Table Function

The columns of the table function `ScenesByApplicationId` are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
application_id	varchar2	Application ID	<input checked="" type="checkbox"/>	
application_name	varchar2		<input checked="" type="checkbox"/>	
authenticated	char		<input type="checkbox"/>	
icon_align	varchar2		<input type="checkbox"/>	
icon_icon	varchar2		<input type="checkbox"/>	
id	varchar2		<input checked="" type="checkbox"/>	Unique ID.
ignore_entry_scene_menu	char		<input type="checkbox"/>	
key	varchar2		<input checked="" type="checkbox"/>	
limit_profile_access	varchar2		<input type="checkbox"/>	
menu	varchar2		<input type="checkbox"/>	
modal_prevent_background_click_close	char		<input type="checkbox"/>	
modal_prevent_background_click_closename	varchar2		<input type="checkbox"/>	
modal	char		<input type="checkbox"/>	
name	varchar2		<input type="checkbox"/>	
object_key	varchar2		<input type="checkbox"/>	
page_menu_display	varchar2		<input type="checkbox"/>	
parent	varchar2		<input type="checkbox"/>	
print	char		<input type="checkbox"/>	
slug	varchar2		<input type="checkbox"/>	
source_view	varchar2		<input type="checkbox"/>	
type	varchar2		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
uuid	guid		<input type="checkbox"/>	

SceneViews

Catalog: Knack

Schema: DataDictionary

Primary Keys: id

This is a read-only table. The Knack API may not support changing the data or the Invariantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Table Columns

The columns of the table SceneViews are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
action	varchar2		<input type="checkbox"/>	
address_field_key	varchar2		<input type="checkbox"/>	
alert	varchar2		<input type="checkbox"/>	
allow_exporting	char		<input type="checkbox"/>	
allow_limit	varchar2		<input type="checkbox"/>	
allow_preset_filters	char		<input type="checkbox"/>	
application_id	varchar2	Application ID	<input checked="" type="checkbox"/>	
application_name	varchar2		<input checked="" type="checkbox"/>	
cell_editor	varchar2		<input type="checkbox"/>	
confirmation_confirmation_scene	varchar2		<input type="checkbox"/>	
confirmation_confirmation_text	varchar2		<input type="checkbox"/>	
confirmation_send_alert	varchar2		<input type="checkbox"/>	
confirmation_type	varchar2		<input type="checkbox"/>	
content	varchar2		<input type="checkbox"/>	
default_range	varchar2		<input type="checkbox"/>	
description	varchar2		<input type="checkbox"/>	
details_filter_fields	varchar2		<input type="checkbox"/>	
details_filter_type	varchar2		<input type="checkbox"/>	
details_label_format	varchar2		<input type="checkbox"/>	
details_layout	varchar2		<input type="checkbox"/>	
details_list_layout	varchar2		<input type="checkbox"/>	
details_title	varchar2		<input type="checkbox"/>	
display_pagination_below	char		<input type="checkbox"/>	
ecommerce	varchar2		<input type="checkbox"/>	
events_allow_add	varchar2		<input type="checkbox"/>	
events_display_type	varchar2		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
events_event_color_default	varchar2		<input type="checkbox"/>	
events_event_field_key	varchar2		<input type="checkbox"/>	
events_ical	varchar2		<input type="checkbox"/>	
events_label_field_key	varchar2		<input type="checkbox"/>	
events_show_details	varchar2		<input type="checkbox"/>	
events_time_max	varchar2		<input type="checkbox"/>	
events_time_min	varchar2		<input type="checkbox"/>	
events_view	varchar2		<input type="checkbox"/>	
events_week_start	varchar2		<input type="checkbox"/>	
filter_connection_-sources_field_240_source_connection_key	varchar2		<input type="checkbox"/>	
filter_connection_-sources_field_240_source_remote_key	varchar2		<input type="checkbox"/>	
filter_connection_-sources_field_240_source_type	varchar2		<input type="checkbox"/>	
filter_connection_-sources_field_4780_source_connection_key	varchar2		<input type="checkbox"/>	
filter_connection_-sources_field_4780_source_remote_key	varchar2		<input type="checkbox"/>	
filter_connection_-sources_field_4780_source_type	varchar2		<input type="checkbox"/>	
filter_fields	varchar2		<input type="checkbox"/>	
filter_type	varchar2		<input type="checkbox"/>	
form_title	varchar2		<input type="checkbox"/>	
format	varchar2		<input type="checkbox"/>	
hide_empty	varchar2		<input type="checkbox"/>	
hide_fields	varchar2		<input type="checkbox"/>	
id	varchar2		<input checked="" type="checkbox"/>	Unique ID.
ignore_reload	char		<input type="checkbox"/>	
key	varchar2		<input checked="" type="checkbox"/>	
keyword_search_fields	varchar2		<input type="checkbox"/>	
keyword_search	char		<input type="checkbox"/>	
label_format	varchar2		<input type="checkbox"/>	
label	varchar2		<input type="checkbox"/>	
layout	varchar2		<input type="checkbox"/>	
limit_profile_access	char		<input type="checkbox"/>	
list_layout	varchar2		<input type="checkbox"/>	
list_width	int16		<input type="checkbox"/>	
map_height	int16		<input type="checkbox"/>	
map_width	int16		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
menu_links_design_active	varchar2		<input type="checkbox"/>	
menu_links_design_buttons_colors_fill_background_color	varchar2		<input type="checkbox"/>	
menu_links_design_buttons_colors_fill_text_color	varchar2		<input type="checkbox"/>	
menu_links_design_tabs.border_thickness	varchar2		<input type="checkbox"/>	
menu_links_design_tabs_border_thickness	varchar2		<input type="checkbox"/>	
menu_links_design_tabs_colors_fill_background_color	varchar2		<input type="checkbox"/>	
menu_links_design_tabs_colors_fill_border_color	varchar2		<input type="checkbox"/>	
menu_links_design_tabs_colors_fill_border_custom	varchar2		<input type="checkbox"/>	
menu_links_design_tabs_colors_fill_text_color	varchar2		<input type="checkbox"/>	
menu_links_design_tabs_colors_fill_text_custom	varchar2		<input type="checkbox"/>	
menu_links_design_tabs_colors_outline_text_color	varchar2		<input type="checkbox"/>	
menu_links_design_tabs_format	varchar2		<input type="checkbox"/>	
menu_links_design_tabs_size	varchar2		<input type="checkbox"/>	
name	varchar2		<input type="checkbox"/>	
no_data_text	varchar2		<input type="checkbox"/>	
options_cell_editor	varchar2		<input type="checkbox"/>	
parent	varchar2		<input type="checkbox"/>	
pin_color_default	varchar2		<input type="checkbox"/>	
registration_type	varchar2		<input type="checkbox"/>	
reload_form_text	varchar2		<input type="checkbox"/>	
results_label_format	varchar2		<input type="checkbox"/>	
results_source_type	varchar2		<input type="checkbox"/>	
results_type	varchar2		<input type="checkbox"/>	
rows_per_page	int32		<input type="checkbox"/>	
scene_id	varchar2		<input checked="" type="checkbox"/>	
scene_key	varchar2		<input checked="" type="checkbox"/>	
scene_name	varchar2		<input checked="" type="checkbox"/>	
source_authenticated_user	varchar2		<input type="checkbox"/>	
source_connection_key	varchar2		<input type="checkbox"/>	
source_criteria_match	varchar2		<input type="checkbox"/>	
source_limit	varchar2		<input type="checkbox"/>	
source_object	varchar2		<input type="checkbox"/>	
source_parent_source_connection	varchar2		<input type="checkbox"/>	
source_parent_source_object	varchar2		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
source_relationship_type	varchar2		<input type="checkbox"/>	
source_type	varchar2		<input type="checkbox"/>	
starting_address	varchar2		<input type="checkbox"/>	
starting_point	varchar2		<input type="checkbox"/>	
submit_button_text	varchar2		<input type="checkbox"/>	
table_design_active	char		<input type="checkbox"/>	
table_design_spacing	varchar2		<input type="checkbox"/>	
table_design_stripped	char		<input type="checkbox"/>	
table_design_style	varchar2		<input type="checkbox"/>	
title_field_key	varchar2		<input type="checkbox"/>	
title	varchar2		<input type="checkbox"/>	
type	varchar2		<input type="checkbox"/>	
units	varchar2		<input type="checkbox"/>	

SceneViewsByApplicationId

Catalog: Knack

Schema: DataDictionary

Primary Keys: id

This is a read-only table function. The Knack API may not support changing the data or the Invantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function SceneViewsByApplicationId. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``select * from table(value1, value2, value3)`` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``select * from table(name1 => value1, name3 => value3)`` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	<input checked="" type="checkbox"/>		

Columns of Table Function

The columns of the table function SceneViewsByApplicationId are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
action	varchar2		<input type="checkbox"/>	
address_field_key	varchar2		<input type="checkbox"/>	
alert	varchar2		<input type="checkbox"/>	
allow_exporting	char		<input type="checkbox"/>	
allow_limit	varchar2		<input type="checkbox"/>	
allow_preset_filters	char		<input type="checkbox"/>	
application_id	varchar2	Application ID	<input checked="" type="checkbox"/>	
application_name	varchar2		<input checked="" type="checkbox"/>	
cell_editor	varchar2		<input type="checkbox"/>	
confirmation_confirmation_scene	varchar2		<input type="checkbox"/>	
confirmation_confirmation_text	varchar2		<input type="checkbox"/>	
confirmation_send_alert	varchar2		<input type="checkbox"/>	
confirmation_type	varchar2		<input type="checkbox"/>	
content	varchar2		<input type="checkbox"/>	
default_range	varchar2		<input type="checkbox"/>	
description	varchar2		<input type="checkbox"/>	
details_filter_fields	varchar2		<input type="checkbox"/>	
details_filter_type	varchar2		<input type="checkbox"/>	
details_label_format	varchar2		<input type="checkbox"/>	
details_layout	varchar2		<input type="checkbox"/>	
details_list_layout	varchar2		<input type="checkbox"/>	
details_title	varchar2		<input type="checkbox"/>	
display_pagination_below	char		<input type="checkbox"/>	
ecommerce	varchar2		<input type="checkbox"/>	
events_allow_add	varchar2		<input type="checkbox"/>	
events_display_type	varchar2		<input type="checkbox"/>	
events_event_color_default	varchar2		<input type="checkbox"/>	
events_event_field_key	varchar2		<input type="checkbox"/>	
events_ical	varchar2		<input type="checkbox"/>	
events_label_field_key	varchar2		<input type="checkbox"/>	
events_show_details	varchar2		<input type="checkbox"/>	
events_time_max	varchar2		<input type="checkbox"/>	
events_time_min	varchar2		<input type="checkbox"/>	
events_view	varchar2		<input type="checkbox"/>	
events_week_start	varchar2		<input type="checkbox"/>	
filter_connection_sources_field_240_source_connection_key	varchar2		<input type="checkbox"/>	
filter_connection_sources_field_240_source_re-	varchar2		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
mote_key				
filter_connection_-sources_field_240_source_type	varchar2		<input type="checkbox"/>	
filter_connection_-sources_field_4780_source_connection_key	varchar2		<input type="checkbox"/>	
filter_connection_-sources_field_4780_source_remote_key	varchar2		<input type="checkbox"/>	
filter_connection_-sources_field_4780_source_type	varchar2		<input type="checkbox"/>	
filter_fields	varchar2		<input type="checkbox"/>	
filter_type	varchar2		<input type="checkbox"/>	
form_title	varchar2		<input type="checkbox"/>	
format	varchar2		<input type="checkbox"/>	
hide_empty	varchar2		<input type="checkbox"/>	
hide_fields	varchar2		<input type="checkbox"/>	
id	varchar2		<input checked="" type="checkbox"/>	Unique ID.
ignore_reload	char		<input type="checkbox"/>	
key	varchar2		<input checked="" type="checkbox"/>	
keyword_search_fields	varchar2		<input type="checkbox"/>	
keyword_search	char		<input type="checkbox"/>	
label_format	varchar2		<input type="checkbox"/>	
label	varchar2		<input type="checkbox"/>	
layout	varchar2		<input type="checkbox"/>	
limit_profile_access	char		<input type="checkbox"/>	
list_layout	varchar2		<input type="checkbox"/>	
list_width	int16		<input type="checkbox"/>	
map_height	int16		<input type="checkbox"/>	
map_width	int16		<input type="checkbox"/>	
menu_links_design_active	varchar2		<input type="checkbox"/>	
menu_links_design_buttons_colors_fill_background_color	varchar2		<input type="checkbox"/>	
menu_links_design_buttons_colors_fill_text_color	varchar2		<input type="checkbox"/>	
menu_links_design_tabs.border_thickness	varchar2		<input type="checkbox"/>	
menu_links_design_tabs_border_thickness	varchar2		<input type="checkbox"/>	
menu_links_design_tabs_colors_fill_background_color	varchar2		<input type="checkbox"/>	
menu_links_design_tabs_colors_fill_border_color	varchar2		<input type="checkbox"/>	
menu_links_design_tabs_colors_fill_border_custom	varchar2		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
menu_links_design_tabs_colors_-fill_text_color	varchar2		<input type="checkbox"/>	
menu_links_design_tabs_colors_-fill_text_custom	varchar2		<input type="checkbox"/>	
menu_links_design_tabs_colors_outline_text_color	varchar2		<input type="checkbox"/>	
menu_links_design_tabs_format	varchar2		<input type="checkbox"/>	
menu_links_design_tabs_size	varchar2		<input type="checkbox"/>	
name	varchar2		<input type="checkbox"/>	
no_data_text	varchar2		<input type="checkbox"/>	
options_cell_editor	varchar2		<input type="checkbox"/>	
parent	varchar2		<input type="checkbox"/>	
pin_color_default	varchar2		<input type="checkbox"/>	
registration_type	varchar2		<input type="checkbox"/>	
reload_form_text	varchar2		<input type="checkbox"/>	
results_label_format	varchar2		<input type="checkbox"/>	
results_source_type	varchar2		<input type="checkbox"/>	
results_type	varchar2		<input type="checkbox"/>	
rows_per_page	int32		<input type="checkbox"/>	
scene_id	varchar2		<input checked="" type="checkbox"/>	
scene_key	varchar2		<input checked="" type="checkbox"/>	
scene_name	varchar2		<input checked="" type="checkbox"/>	
source_authenticated_user	varchar2		<input type="checkbox"/>	
source_connection_key	varchar2		<input type="checkbox"/>	
source_criteria_match	varchar2		<input type="checkbox"/>	
source_limit	varchar2		<input type="checkbox"/>	
source_object	varchar2		<input type="checkbox"/>	
source_parent_source_connection	varchar2		<input type="checkbox"/>	
source_parent_source_object	varchar2		<input type="checkbox"/>	
source_relationship_type	varchar2		<input type="checkbox"/>	
source_type	varchar2		<input type="checkbox"/>	
starting_address	varchar2		<input type="checkbox"/>	
starting_point	varchar2		<input type="checkbox"/>	
submit_button_text	varchar2		<input type="checkbox"/>	
table_design_active	char		<input type="checkbox"/>	
table_design_spacing	varchar2		<input type="checkbox"/>	
table_design_stripped	char		<input type="checkbox"/>	
table_design_style	varchar2		<input type="checkbox"/>	
title_field_key	varchar2		<input type="checkbox"/>	
title	varchar2		<input type="checkbox"/>	
type	varchar2		<input type="checkbox"/>	
units	varchar2		<input type="checkbox"/>	

3.1.2 Schema: Journal_Details

3.1.2.1 Tables

Journal_DetailsById

Catalog: Knack

Schema: Journal_Details

This is a read-only table function. The Knack API may not support changing the data or the Invariantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function Journal_DetailsById. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``select * from table(value1, value2, value3)`` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``select * from table(name1 => value1, name3 => value3)`` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	<input checked="" type="checkbox"/>		

Columns of Table Function

The columns of the table function Journal_DetailsById are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
DUMMY	varchar2		<input checked="" type="checkbox"/>	Default column added since the specification specifies that no data is returned.
record_id	varchar2		<input checked="" type="checkbox"/>	

3.1.3 Schema: Journals

3.1.3.1 Tables

Journals: Knack Table

Catalog: Knack

Schema: Journals

Label: Table

This is a read-only view. The Knack API may not support changing the data or the Invariantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

View Columns

The columns of the view Journals are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
Code	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": true, "unique": true, "user": false, "conditional": false, "rules": [], "validation": { "message": "test asdasdadas", "criteria": [{ "field": "field_1", "value": "15", "operator": "character count is higher than" }] }, "_id": "5f6840a44395f40015a2edb9", "name": "Code", "key": "field_1", "object_key": "object_1", "relationship": null, "format": null, "default": "", "immutable": null }
Description	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": true, "unique": true, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6840e94395f40015a2ee69", "name": "Description", "key": "field_2", "object_key": "object_1", "relationship": null, "format": null, "default": "", "immutable": null }
record_id	varchar2		<input checked="" type="checkbox"/>	

3.1.4 Schema: Native

3.1.4.1 Tables

NATIVEPLATFORMSCALARREQUESTS: Knack Native Platform Scalar Requests

```
{res:itgen_native_platform_scalar_requests_desc}
```

Catalog: Knack

Schema: Native

Alias: npt

Label: Native Platform Scalar Requests

Documentation:

The NativePlatformScalarRequests table provides direct access to the native API protocol over an established connection to the Knack API server. It will contain a new row for every row inserted with a native API request in PAYLOAD_TEXT with the results of unaltered forwarding of the payload to the Knack API server.

Retrieve: true

Insert: true

Update: false

Delete: false

View Columns

The columns of the view NATIVEPLATFORMSCALARREQUESTS are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert.

Name	Data Type	Label	Required	Documentation
BLOB_PREFERRED	char	BLOB Preferred	<input checked="" type="checkbox"/>	Indicator whether a BLOB result is preferred over text.
BOL_RESPONSE_CACHE_MAX_AGE_SEC	int32	Response Cache Maximum Age (sec)	<input type="checkbox"/>	Maximum age in seconds of Bridge Online response cache entries to be used.
CONTENT_TYPE	varchar2(240)	Content Type	<input type="checkbox"/>	
DATE_ENDED	datetime	End Date	<input checked="" type="checkbox"/>	
DATE_STARTED	datetime	Start Date	<input checked="" type="checkbox"/>	
DRY_RUN	char	Run without Actions	<input checked="" type="checkbox"/>	
DURATION_MS	int64	Duration (ms)	<input checked="" type="checkbox"/>	
ERROR_MESSAGE_CODE	varchar2(30)	Error Message Code	<input type="checkbox"/>	
ERROR_MESSAGE_TEXT	varchar2(32000)	Error Message Text	<input type="checkbox"/>	
FAIL_ON_ERROR	char	Fail on Error	<input checked="" type="checkbox"/>	Whether to raise an exception when processing the native request triggered an error from the provider.
HTTP_DISK_CACHE_MAX_AGE_SEC	int32	HTTP Disk Cache Maximum Age (sec)	<input type="checkbox"/>	Maximum age in seconds of HTTP disk cache entries to be used.
HTTP_DISK_CACHE_SAVE	char	Save HTTP Disk Cache	<input type="checkbox"/>	Whether results can be stored in HTTP disk cache.
HTTP_DISK_CACHE_USE	char	Use HTTP Disk Cache	<input type="checkbox"/>	Whether results can be fetched from HTTP disk cache.
HTTP_MEMORY_CACHE_MAX_AGE_SEC	int32	HTTP Memory Cache Maximum Age (sec)	<input type="checkbox"/>	Maximum age in seconds of HTTP memory cache entries to be used.
HTTP_MEMORY_CACHE_SAVE	char	Save HTTP Memory Cache	<input type="checkbox"/>	Whether results can be stored in HTTP memory cache.
HTTP_MEMORY_CACHE_USE	char	Use HTTP Memory Cache	<input type="checkbox"/>	Whether results can be fetched from HTTP memory cache.
HTTP_METHOD	varchar2(30)	HTTP Method	<input type="checkbox"/>	
HTTP_STATUS_CODE	numeric	HTTP Status Code	<input type="checkbox"/>	
ORIG_SYSTEM_GROUP	varchar2(4000)	Original System Group	<input type="checkbox"/>	
ORIG_SYSTEM_REFERENCE	varchar2(4000)	Original System Reference	<input type="checkbox"/>	
PAYLOAD_TEXT	varchar2	Payload	<input type="checkbox"/>	
RESULT_BLOB	blob	Result BLOB	<input type="checkbox"/>	
RESULT_DATE_TIME_UTC	datetime	Result Date Time	<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
RESULT_NUMBER	number	Result Number	<input type="checkbox"/>	
RESULT_TEXT	varchar2	Result Text	<input type="checkbox"/>	
SUCCESSFUL	char	Successful	<input checked="" type="checkbox"/>	
TIMEOUT_SEC	int32	Timeout (sec)	<input type="checkbox"/>	Timeout in seconds.
TRANSACTION_ID	int64	Transaction ID	<input checked="" type="checkbox"/>	Incrementing ID of the transaction.
URL	varchar2(4000)	URL	<input type="checkbox"/>	

3.1.5 Schema: Objects

3.1.5.1 Tables

A_B_C: Knack A B Cs

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: A B Cs

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table A_B_C are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
A_B_C_Name	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": true, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [{ "_id": "5f69b739416eb600150fce65", "name": "A B C Name", "key": "field_36", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": null }] }
Record_ID_1	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [{ "_id": "696a8b987297df53c6ed6de5", "name": "Record ID", "key": "field_98", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": true }] }
record_id	varchar2		<input checked="" type="checkbox"/>	

Accounts: Knack Accounts

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Accounts

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table Accounts are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
Email_email	varchar2		<input type="checkbox"/>	
Email_label	varchar2		<input type="checkbox"/>	
Name_firstname	varchar2		<input type="checkbox"/>	
Name_lastname	varchar2		<input type="checkbox"/>	
Name_middlename	varchar2		<input type="checkbox"/>	
Name_title	varchar2		<input type="checkbox"/>	
Password	varchar2		<input type="checkbox"/>	{ "type": "password", "required": true, "unique": false, "user": true, "conditional": false, "rules": [], "validation": [{"_id": "5f68418d07138e0015c9974b", "name": "Password", "key": "field_5", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": true}] }
Record_ID_1	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [{"_id": "696a8b987297df53c6ed6ddf", "name": "Record ID", "key": "field_95", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": true}] }
record_id	varchar2		<input checked="" type="checkbox"/>	
User_Roles	varchar2		<input type="checkbox"/>	{ "type": "user_roles", "required": false, "unique": false, "user": true, "conditional": false, "rules": [], "validation": [{"_id": "5f68418d07138e0015c9974d", "name": "User Roles", "key": "field_7", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": true}] }
User_Status	varchar2		<input type="checkbox"/>	{ "type": "multiple_choice", "required": true, "unique": false, "user": true, "conditional": false, "rules": [] }

Name	Data Type	Label	Required	Documentation
				[{"validation": [{"_id": "5f68418d07138e0015c9974c", "name": "User Status", "key": "field_6", "object_key": null, "relationship": null, "format": {"input": null, "conn_default": null, "default": "active", "sorting": null, "type": "single", "options": ["active", "inactive", "pending approval"], "format": null, "mark_decimal": null, "mark_thousands": null, "precision": null, "rounding": null, "show_commas": null, "pre": null, "post": null, "text_format": null, "label": null, "enable_geocoding": false, "equation_type": null}, "default": null, "immutable": true}]}

Companies: Knack Companies

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Companies

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table Companies are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
Address_city	varchar2		<input type="checkbox"/>	
Address_state	varchar2		<input type="checkbox"/>	
Address_street	varchar2		<input type="checkbox"/>	
Address_street2	varchar2		<input type="checkbox"/>	
Address_zip	varchar2		<input type="checkbox"/>	
Companies_Name	varchar2		<input type="checkbox"/>	{"type": "short_text", "required": true, "unique": false, "user": false, "conditional": false, "rules": [{"validation": [{"_id": "5f6a3c1cd276730015600269", "name": "Companies Name", "key": "field_40", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": null}]}]}
Description	varchar2		<input type="checkbox"/>	{"type": "paragraph_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [{"validation": [{"_id": "5f6a3c1cd276730015600269", "name": "Companies Description", "key": "field_41", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": null}]}]}

Name	Data Type	Label	Required	Documentation
				":false,"conditional":false,"rules": [],"validation": [], "_id": "5f6a3c1d-d27673001560026d", "name": "Description", "key": "field_44", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": null}
Industry	varchar2		<input type="checkbox"/>	{ "type": "multiple_choice", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c1d-d27673001560026c", "name": "Industry", "key": "field_43", "object_key": null, "relationship": null, "format": { "input": null, "conn_default": null, "default": "kn-blank", "sorting": "alphabetical", "type": "single", "options": ["Education", "Entertainment", "Healthcare", "Government", "Technology"], "format": null, "mark_decimal": null, "mark_thousands": null, "precision": null, "rounding": null, "show_commas": null, "pre": null, "post": null, "text_format": null, "label": null, "enable_geocoding": false, "equation_type": null}, "default": null, "immutable": null}
Logo_filename	varchar2		<input type="checkbox"/>	
Logo_s3	char		<input type="checkbox"/>	
Logo_size	int32		<input type="checkbox"/>	
Logo_thumb_url	varchar2		<input type="checkbox"/>	
Logo_type	varchar2		<input type="checkbox"/>	
Logo_url	varchar2		<input type="checkbox"/>	
Notes	varchar2		<input type="checkbox"/>	{ "type": "paragraph_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c1dd276730015600270", "name": "Notes", "key": "field_47", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": null}
Phone	varchar2		<input type="checkbox"/>	
Record_ID_1	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "696a8b987297df53c6ed6de7", "name": "Record ID", "key": "field_99", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": true}

Name	Data Type	Label	Required	Documentation
record_id	varchar2		<input checked="" type="checkbox"/>	
Website_label	varchar2		<input type="checkbox"/>	
Website_url	varchar2		<input type="checkbox"/>	

CompaniesExpanded: Knack Companies

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Companies

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table CompaniesExpanded are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
Address_city	varchar2		<input type="checkbox"/>	
Address_state	varchar2		<input type="checkbox"/>	
Address_street	varchar2		<input type="checkbox"/>	
Address_street2	varchar2		<input type="checkbox"/>	
Address_zip	varchar2		<input type="checkbox"/>	
Companies_Name	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": true, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c1cd276730015600269", "name": "Companies Name", "key": "field_40", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": null }
Description	varchar2		<input type="checkbox"/>	{ "type": "paragraph_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c1dd27673001560026d", "name": "Description", "key": "field_44", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": null }
Industry	varchar2		<input type="checkbox"/>	{ "type": "multiple_choice", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c1dd27673001560026c", "name": "Industry", "key": "field_43", "object_key": null, "relationship": null, "format": { "in-

Name	Data Type	Label	Required	Documentation
				put":null,"conn_default":null,"default":"kn-blank","sorting":"alphabetical","type":"single","options":["Education","Entertainment","Heathcare","Government","Technology"],"format":null,"mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":null,"immutable":null}
Logo_data	blob		<input type="checkbox"/>	
Logo_filename	varchar2		<input type="checkbox"/>	
Logo_s3	char		<input type="checkbox"/>	
Logo_size	int32		<input type="checkbox"/>	
Logo_thumb_url	varchar2		<input type="checkbox"/>	
Logo_type	varchar2		<input type="checkbox"/>	
Logo_url	varchar2		<input type="checkbox"/>	
Notes	varchar2		<input type="checkbox"/>	{"type":"paragraph_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[{"_id":"5f6a3c1dd276730015600270","name":"Notes","key":"field_47","object_key":null,"relationship":null,"format":null,"default":null,"immutable":null}
Phone	varchar2		<input type="checkbox"/>	
Record_ID_1	varchar2		<input type="checkbox"/>	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[{"_id":"696a8b987297df53c6ed6de7","name":"Record ID","key":"field_99","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}
record_id	varchar2		<input checked="" type="checkbox"/>	
Website_label	varchar2		<input type="checkbox"/>	
Website_url	varchar2		<input type="checkbox"/>	

Contacts: Knack Contacts

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Contacts

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table Contacts are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
Address_city	varchar2		<input type="checkbox"/>	
Address_state	varchar2		<input type="checkbox"/>	
Address_street	varchar2		<input type="checkbox"/>	
Address_street2	varchar2		<input type="checkbox"/>	
Address_zip	varchar2		<input type="checkbox"/>	
Birthday	datetime		<input type="checkbox"/>	
Company_id	varchar2		<input type="checkbox"/>	
Company_identifier	varchar2		<input type="checkbox"/>	
Contacts_Name	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": true, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c27e5ae-f10018c5203b", "name": "Contacts Name", "key": "field_48", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": null }
Email_email	varchar2		<input type="checkbox"/>	
Email_label	varchar2		<input type="checkbox"/>	
Gender	varchar2		<input type="checkbox"/>	{ "type": "multiple_choice", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c27e5ae-f10018c5203e", "name": "Gender", "key": "field_51", "object_key": null, "relationship": null, "format": { "input": null, "conn_default": null, "default": "kn-blank", "sorting": "alphabetical", "type": "single", "options": ["Female", "Male"], "format": null, "mark_decimal": null, "mark_thousands": null, "precision": null, "rounding": null, "show_commas": null, "pre": null, "post": null, "text_format": null, "label": null, "enable_geocoding": false, "equation_type": null, "default": null, "immutable": null }
Image_filename	varchar2		<input type="checkbox"/>	
Image_s3	char		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
Image_size	int32		<input type="checkbox"/>	
Image_thumb_url	varchar2		<input type="checkbox"/>	
Image_type	varchar2		<input type="checkbox"/>	
Image_url	varchar2		<input type="checkbox"/>	
Notes	varchar2		<input type="checkbox"/>	{ "type": "paragraph_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c27e5aef10018c52044", "name": "Notes", "key": "field_56", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": null}
Occupation	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c27e5aef10018c52040", "name": "Occupation", "key": "field_52", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": null}
Phone	varchar2		<input type="checkbox"/>	
Record_ID_1	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "696a8b987297df53c6ed6de9", "name": "Record ID", "key": "field_100", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": true}
record_id	varchar2		<input checked="" type="checkbox"/>	

ContactsExpanded: Knack Contacts

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Contacts

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table ContactsExpanded are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
Address_city	varchar2		<input type="checkbox"/>	
Address_state	varchar2		<input type="checkbox"/>	
Address_street	varchar2		<input type="checkbox"/>	
Address_street2	varchar2		<input type="checkbox"/>	
Address_zip	varchar2		<input type="checkbox"/>	
Birthday	datetime		<input type="checkbox"/>	
Company_id	varchar2		<input type="checkbox"/>	
Company_identifier	varchar2		<input type="checkbox"/>	
Contacts_Name	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": true, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c27e5aef10018c5203b", "name": "Contacts Name", "key": "field_48", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": null}
Email_email	varchar2		<input type="checkbox"/>	
Email_label	varchar2		<input type="checkbox"/>	
Gender	varchar2		<input type="checkbox"/>	{ "type": "multiple_choice", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c27e5aef10018c5203e", "name": "Gender", "key": "field_51", "object_key": null, "relationship": null, "format": {"input": null, "conn_default": null, "default": "kn-blank", "sorting": "alphabetical", "type": "single", "options": ["Female", "Male"], "format": null, "mark_decimal": null, "mark_thousands": null, "precision": null, "rounding": null, "show_commas": null, "pre": null, "post": null, "text_format": null, "label": null, "enable_geocoding": false, "equation_type": null}, "default": null, "immutable": null}
Image_data	blob		<input type="checkbox"/>	
Image_filename	varchar2		<input type="checkbox"/>	
Image_s3	char		<input type="checkbox"/>	
Image_size	int32		<input type="checkbox"/>	
Image_thumb_url	varchar2		<input type="checkbox"/>	
Image_type	varchar2		<input type="checkbox"/>	
Image_url	varchar2		<input type="checkbox"/>	
Notes	varchar2		<input type="checkbox"/>	{ "type": "paragraph_text", "required": false, "unique": false, "user": false, "conditional": false, "rules":

Name	Data Type	Label	Required	Documentation
				[{"validation": [{"_id": "5f6a3c27e5aef10018c52044", "name": "Notes", "key": "field_56", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": null}]}]
Occupation	varchar2		<input type="checkbox"/>	{"type": "short_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [{"validation": [{"_id": "5f6a3c27e5aef10018c52040", "name": "Occupation", "key": "field_52", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": null}]}]}
Phone	varchar2		<input type="checkbox"/>	
Record_ID_1	varchar2		<input type="checkbox"/>	{"type": "short_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [{"validation": [{"_id": "696a8b98729df53c6ed6de9", "name": "Record ID", "key": "field_100", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": true}]}]}
record_id	varchar2		<input checked="" type="checkbox"/>	

DateTest: Knack DateTests

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: DateTests

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table DateTest are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
a	datetime		<input type="checkbox"/>	
n	decimal		<input type="checkbox"/>	{"type": "number", "required": true, "unique": false, "user": false, "conditional": false, "rules": [{"validation": [{"_id": "5f75ab841049610018c102a2", "name": "n", "key": "field_81", "object_key": "object_10", "rela-

Name	Data Type	Label	Required	Documentation
				<pre> tionship":null,"format":{"input":null,"conn_default":null,"default":null,"sorting":null,"type":null,"options":null,"format":"none","mark_decimal":"none","mark_thousands":"none","precision":"1","rounding":"up","show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null,"default":"","immutable":null} </pre>
Name_firstname	varchar2		<input type="checkbox"/>	
Name_lastname	varchar2		<input type="checkbox"/>	
Name_middlename	varchar2		<input type="checkbox"/>	
Name_title	varchar2		<input type="checkbox"/>	
Record_ID_1	varchar2		<input type="checkbox"/>	<pre> {"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"696a8b987297df53c6ed6def","name":"Record ID","key":"field_103","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true} </pre>
record_id	varchar2		<input checked="" type="checkbox"/>	
t	varchar2		<input type="checkbox"/>	<pre> {"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f748b2c3b51ec00186778c5","name":"t","key":"field_79","object_key":"object_10","relationship":null,"format":null,"default":"","immutable":null} </pre>

Journals: Knack Journals

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Journals

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table Journals are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
Code	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": true, "unique": true, "user": false, "conditional": false, "rules": [], "validation": [{" "message": "test asdasdadas", "criteria": [{" "field": "field_1", "value": "15", "operator": "character count is higher than"}]}]}, "_id": "5f6840a44395f40 015a2edb9", "name": "Code", "key": "field_1", "object_key": "ob- ject_1", "relation- ship": null, "format": null, "default": "", "immutable": null }
Company_id	varchar2		<input type="checkbox"/>	
Company_identifier	varchar2		<input type="checkbox"/>	
Description	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": true, "unique": true, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6840e94395f40015a2e e69", "name": "Descrip- tion", "key": "field_2", "ob- ject_key": "object_1", "relation- ship": null, "format": null, "de- fault": "", "immutable": null }
Multiple_Choice	varchar2		<input type="checkbox"/>	
Record_ID_1	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "696a8b977297d- f53c6ed6ddd", "name": "Record ID", "key": "field_94", "ob- ject_key": null, "relation- ship": null, "format": null, "de- fault": null, "immutable": true }
record_id	varchar2		<input checked="" type="checkbox"/>	
Text_Formula	varchar2		<input type="checkbox"/>	{ "type": "concatenation", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f75c36f8281580016c0b 2b3", "name": "Text For- mula", "key": "field_85", "ob- ject_key": "object_1", "relation- ship": null, "format": {" "input": null, "conn_default": null, "de- fault": null, "sort- ing": null, "type": null, "op- tions": null, "format": null, "mark_ decimal": null, "mark_thou- sands": null, "preci- sion": null, "rounding": null, "show_ com- mas": null, "pre": null, "post": null, "te xt_format": null, "label": null, "en- able_geocoding": false, "equa- tion_type": "numeric"}, "de- fault": null, "immutable": null }

JournalsMultiple_Choice: Knack Multiple choices for Journals

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Multiple choices for Journals

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table JournalsMultiple_Choice are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
record_id	varchar2		<input checked="" type="checkbox"/>	
value	varchar2		<input checked="" type="checkbox"/>	

OrdersObject: Knack OrdersObjects

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: OrdersObjects

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table OrdersObject are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
Customer	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c3070cee-b00154426b4", "name": "Customer", "key": "field_66", "object_key": "object_8", "relationship": null, "format": null, "default": null, "immutable": null }
Description	varchar2		<input type="checkbox"/>	{ "type": "paragraph_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c2f70cee-b00154426ac", "name": "Descrip-

Name	Data Type	Label	Required	Documentation
				tion","key":"field_60","object_key":"object_8","relationship":null,"format":null,"default":null,"immutable":null}
Order_Date	datetime		<input type="checkbox"/>	
Order_ID	decimal		<input type="checkbox"/>	{"type":"auto_increment","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c2f70cee-b00154426aa","name":"Order ID","key":"field_58","object_key":"object_8","relationship":null,"format":null,"default":null,"immutable":null}
Orders_Name	varchar2		<input type="checkbox"/>	{"type":"short_text","required":true,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c2f70cee-b00154426a8","name":"Orders Name","key":"field_57","object_key":"object_8","relationship":null,"format":null,"default":null,"immutable":null}
Product_Name	varchar2		<input type="checkbox"/>	{"type":"short_text","required":true,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f75c2d9d178b10015c386f8","name":"Product Name","key":"field_83","object_key":"object_8","relationship":null,"format":null,"default":"","immutable":null}
Record_ID_1	varchar2		<input type="checkbox"/>	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"696a8b987297d-f53c6ed6deb","name":"Record ID","key":"field_101","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}
record_id	varchar2		<input checked="" type="checkbox"/>	
Ship_Date	datetime		<input type="checkbox"/>	
Ship_Type	varchar2		<input type="checkbox"/>	{"type":"multiple_choice","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6a3c3070cee-b00154426b3","name":"Ship Type","key":"field_65","object_key":"object_8","relationship":null,"format":{"input":null,"conn_default":null,"default":"kn-blank","sorting":"alphabetical","type":"single","options":

Name	Data Type	Label	Required	Documentation
				["Same Day","Next Day","Standard"],"format":null,"mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":null,"immutable":null}
Shipping_Address_city	varchar2		<input type="checkbox"/>	
Shipping_Address_state	varchar2		<input type="checkbox"/>	
Shipping_Address_street	varchar2		<input type="checkbox"/>	
Shipping_Address_street2	varchar2		<input type="checkbox"/>	
Shipping_Address_zip	varchar2		<input type="checkbox"/>	
Status	varchar2		<input type="checkbox"/>	{ "type": "multiple_choice", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c2f70cee-b00154426ab", "name": "Status", "key": "field_59", "object_key": "object_8", "relationship": null, "format": { "input": null, "conn_default": null, "default": "kn-blank", "sorting": "alphabetical", "type": "single", "options": ["New", "Active", "Shipped", "Returned"] }, "format": null, "mark_decimal": null, "mark_thousands": null, "precision": null, "rounding": null, "show_commas": null, "pre": null, "post": null, "text_format": null, "label": null, "enable_geocoding": false, "equation_type": null }, "default": null, "immutable": null }
Total	decimal		<input type="checkbox"/>	{ "type": "currency", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c2f70cee-b00154426ad", "name": "Total", "key": "field_61", "object_key": "object_8", "relationship": null, "format": { "input": null, "conn_default": null, "default": null, "sorting": null, "type": null, "options": null, "format": "\$", "mark_decimal": null, "mark_thousands": null, "precision": null, "rounding": null, "show_commas": null, "pre": null, "post": null, "text_format": null, "label": null, "enable_geocoding": false, "equa-

Name	Data Type	Label	Required	Documentation
				tion_type":null},"default":null,"immutable":null}

Payments: Knack Payments

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Payments

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table Payments are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
Account_id	varchar2		<input type="checkbox"/>	
Account_identifier	varchar2		<input type="checkbox"/>	
Amount	decimal		<input type="checkbox"/>	{ "type": "currency", "required": true, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c-c770cee-b00154427a5", "name": "Amount", "key": "field_68", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": true }
Charge	varchar2		<input type="checkbox"/>	{ "type": "concatenation", "required": true, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c-c770cee-b00154427a4", "name": "Charge", "key": "field_67", "object_key": null, "relationship": null, "format": { "input": null, "conn_default": null, "default": null, "sorting": null, "type": null, "options": null, "format": null, "mark_decimal": null, "mark_thousands": null, "precision": null, "rounding": null, "show_commas": null, "pre": null, "post": null, "text_format": null, "label": null, "enable_geocoding": false, "equation_type": null }, "default": null, "immutable": true }
Date	datetime		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
Description	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c-c770cee-b00154427ac", "name": "Description", "key": "field_75", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": true }
ID	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": true, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c-c770cee-b00154427aa", "name": "ID", "key": "field_73", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": true }
IP_Address	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": true, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c-c770cee-b00154427ab", "name": "IP Address", "key": "field_74", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": true }
Notes	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c-c770cee-b00154427ad", "name": "Notes", "key": "field_76", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": true }
Processor	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": true, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c-c770cee-b00154427a9", "name": "Processor", "key": "field_72", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": true }
Record_ID_1	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "696a8b987297d-f53c6ed6ded", "name": "Record ID", "key": "field_102", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": true }
record_id	varchar2		<input checked="" type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
Source	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": true, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c-c770cee-b00154427a8", "name": "Source", "key": "field_71", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": true}
Status	varchar2		<input type="checkbox"/>	{ "type": "multiple_choice", "required": true, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6a3c-c770cee-b00154427a7", "name": "Status", "key": "field_70", "object_key": null, "relationship": null, "format": {"input": null, "conn_default": null, "default": "Pending", "sorting": null, "type": "single", "options": ["Pending", "Complete", "Failed", "Pending - Test Mode", "Complete - Test Mode", "Failed - Test Mode"], "format": null, "mark_decimal": null, "mark_thousands": null, "precision": null, "rounding": null, "show_commas": null, "pre": null, "post": null, "text_format": null, "label": null, "enable_geocoding": false, "equation_type": null}, "default": null, "immutable": true}

Products: Knack Products

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Products

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table Products are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
Available	char		<input type="checkbox"/>	{ "type": "boolean", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": []}

Name	Data Type	Label	Required	Documentation
				[{"_id":"5f68423c4395f40015a2f020","name":"Available","key":"field_13","object_key":null,"relationship":null,"format":{"input":"dropdown","conn_default":null,"default":"false","sorting":null,"type":null,"options":null,"format":"yes_no","mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":"false","immutable":null}]
Description	varchar2		<input type="checkbox"/>	{"type":"paragraph_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation": [{"_id":"5f68423b4395f40015a2f01e","name":"Description","key":"field_11","object_key":null,"relationship":null,"format":null,"default":null,"immutable":null}]}
Image_filename	varchar2		<input type="checkbox"/>	
Image_s3	char		<input type="checkbox"/>	
Image_size	int32		<input type="checkbox"/>	
Image_thumb_url	varchar2		<input type="checkbox"/>	
Image_type	varchar2		<input type="checkbox"/>	
Image_url	varchar2		<input type="checkbox"/>	
Price	decimal		<input type="checkbox"/>	{"type":"currency","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation": [{"_id":"5f68423b4395f40015a2f01f","name":"Price","key":"field_12","object_key":null,"relationship":null,"format":{"input":null,"conn_default":null,"default":null,"sorting":null,"type":null,"options":null,"format":"\$","mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":null,"immutable":null}]}
Product_ID	decimal		<input type="checkbox"/>	{"type":"auto_increment","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":

Name	Data Type	Label	Required	Documentation
				[, "_id": "5f68423b4395f40015a2f01c", "name": "Product ID", "key": "field_9", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": null}
Record_ID_1	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [, "_id": "696a8b987297df53c6ed6de1", "name": "Record ID", "key": "field_96", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": true}
record_id	varchar2		<input checked="" type="checkbox"/>	

ProductsExpanded: Knack Products

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Products

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table ProductsExpanded are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
Available	char		<input type="checkbox"/>	{ "type": "boolean", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [, "_id": "5f68423c4395f40015a2f020", "name": "Available", "key": "field_13", "object_key": null, "relationship": null, "format": { "input": "dropdown", "conn_default": null, "default": "false", "sorting": null, "type": null, "options": null, "format": "yes_no", "mark_decimal": null, "mark_thousands": null, "precision": null, "rounding": null, "show_commas": null, "pre": null, "post": null, "text_format": null, "label": null, "enable_geocoding": false, "equation_type": null}, "default": "false", "immutable": null}

Name	Data Type	Label	Required	Documentation
Description	varchar2		<input type="checkbox"/>	{ "type": "paragraph_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f68423b4395f40015a2f01e", "name": "Description", "key": "field_11", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": null }
Image_data	blob		<input type="checkbox"/>	
Image_filename	varchar2		<input type="checkbox"/>	
Image_s3	char		<input type="checkbox"/>	
Image_size	int32		<input type="checkbox"/>	
Image_thumb_url	varchar2		<input type="checkbox"/>	
Image_type	varchar2		<input type="checkbox"/>	
Image_url	varchar2		<input type="checkbox"/>	
Price	decimal		<input type="checkbox"/>	{ "type": "currency", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f68423b4395f40015a2f01f", "name": "Price", "key": "field_12", "object_key": null, "relationship": null, "format": {"input": null, "conn_default": null, "default": null, "sorting": null, "type": null, "options": null, "format": "\$", "mark_decimal": null, "mark_thousands": null, "precision": null, "rounding": null, "show_commas": null, "pre": null, "post": null, "text_format": null, "label": null, "enable_geocoding": false, "equation_type": null, "default": null, "immutable": null }
Product_ID	decimal		<input type="checkbox"/>	{ "type": "auto_increment", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f68423b4395f40015a2f01c", "name": "Product ID", "key": "field_9", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": null }
Record_ID_1	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "696a8b987297df53c6ed6de1", "name": "Record ID", "key": "field_96", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": true }

Name	Data Type	Label	Required	Documentation
record_id	varchar2		<input checked="" type="checkbox"/>	

Test: Knack Tests

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Tests

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table Test are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
AddressWithGeocoding_city	varchar2		<input type="checkbox"/>	
AddressWithGeocoding_latitude	decimal		<input type="checkbox"/>	
AddressWithGeocoding_longitude	decimal		<input type="checkbox"/>	
AddressWithGeocoding_state	varchar2		<input type="checkbox"/>	
AddressWithGeocoding_street	varchar2		<input type="checkbox"/>	
AddressWithGeocoding_street2	varchar2		<input type="checkbox"/>	
AddressWithGeocoding_zip	varchar2		<input type="checkbox"/>	
Auto_Increment	decimal		<input type="checkbox"/>	{ "type": "auto_increment", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f689643b3e682001590b4ca", "name": "Auto Increment", "key": "field_21", "object_key": "object_4", "relationship": null, "format": null, "default": null, "immutable": null }
Currency	decimal		<input type="checkbox"/>	{ "type": "currency", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6896274395f40015a3df57", "name": "Currency", "key": "field_19", "object_key": "object_4", "relationship": null, "format": { "input": null, "conn_default": null, "default": null, "sorting": null, "type": null, "options": null, "format": "\$", "mark_decimal": null, "mark_thousands": null, "precision": null, "rounding": null, "show_commas": null, "pre": null, "post": null, "te

Name	Data Type	Label	Required	Documentation
				xt_format":null,"label":null,"enable_geocoding":false,"equation_type":null,"default":"","immutable":null}
Date_Time	datetime		<input type="checkbox"/>	
Email_email	varchar2		<input type="checkbox"/>	
Email_label	varchar2		<input type="checkbox"/>	
Equation	decimal		<input type="checkbox"/>	
File_filename	varchar2		<input type="checkbox"/>	
File_s3	char		<input type="checkbox"/>	
File_size	int32		<input type="checkbox"/>	
File_thumb_url	varchar2		<input type="checkbox"/>	
File_type	varchar2		<input type="checkbox"/>	
File_url	varchar2		<input type="checkbox"/>	
Image_filename	varchar2		<input type="checkbox"/>	
Image_s3	char		<input type="checkbox"/>	
Image_size	int32		<input type="checkbox"/>	
Image_thumb_url	varchar2		<input type="checkbox"/>	
Image_type	varchar2		<input type="checkbox"/>	
Image_url	varchar2		<input type="checkbox"/>	
IntlAddress_city	varchar2		<input type="checkbox"/>	
IntlAddress_state	varchar2		<input type="checkbox"/>	
IntlAddress_street	varchar2		<input type="checkbox"/>	
IntlAddress_street2	varchar2		<input type="checkbox"/>	
IntlAddress_zip	varchar2		<input type="checkbox"/>	
IntlAddressLatLng_latitude	decimal		<input type="checkbox"/>	
IntlAddressLatLng_longitude	decimal		<input type="checkbox"/>	
IntlAddressWithCountry_city	varchar2		<input type="checkbox"/>	
IntlAddressWithCountry_country	varchar2		<input type="checkbox"/>	
IntlAddressWithCountry_state	varchar2		<input type="checkbox"/>	
IntlAddressWithCountry_street	varchar2		<input type="checkbox"/>	
IntlAddressWithCountry_street2	varchar2		<input type="checkbox"/>	
IntlAddressWithCountry_zip	varchar2		<input type="checkbox"/>	
Link_label	varchar2		<input type="checkbox"/>	
Link_url	varchar2		<input type="checkbox"/>	
Multiple_Choice	varchar2		<input type="checkbox"/>	{ "type": "multiple_choice", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f689646b3e682001590b4de", "name": "Multiple Choice", "key": "field_22", "object_key": "object_4", "relationship": null, "format": { "input": null, "conn_default": null, "de-

Name	Data Type	Label	Required	Documentation
				<pre> fault": "kn-blank", "sorting": "alphabetical", "type": "single", "options": ["First Choice", "Second Choice", "Third Choice"], "format": null, "mark_decimal": null, "mark_thousands": null, "precision": null, "rounding": null, "show_commas": null, "pre": null, "post": null, "text_format": null, "label": null, "enable_geocoding": false, "equation_type": null, "default": null, "immutable": null </pre>
Name_firstname	varchar2		<input type="checkbox"/>	
Name_lastname	varchar2		<input type="checkbox"/>	
Name_middlename	varchar2		<input type="checkbox"/>	
Name_title	varchar2		<input type="checkbox"/>	
Number	decimal		<input type="checkbox"/>	<pre> {"type": "number", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6896244395f40015a3df4e", "name": "Number", "key": "field_18", "object_key": "object_4", "relationship": null, "format": {"input": null, "conn_default": null, "default": null, "sorting": null, "type": null, "options": null, "format": "none", "mark_decimal": "none", "mark_thousands": "none", "precision": "2", "rounding": "none", "show_commas": null, "pre": null, "post": null, "text_format": null, "label": null, "enable_geocoding": false, "equation_type": null, "default": "", "immutable": null} </pre>
Paragraph_Text	varchar2		<input type="checkbox"/>	<pre> {"type": "paragraph_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f689601b3e682001590b418", "name": "Paragraph Text", "key": "field_15", "object_key": "object_4", "relationship": null, "format": null, "default": "", "immutable": null} </pre>
Phone	varchar2		<input type="checkbox"/>	
Rating	decimal		<input type="checkbox"/>	<pre> {"type": "rating", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6896823758ec001589d9cd", "name": "Rating", "key": "field_35", "object_key": "object_4", "relation- </pre>

Name	Data Type	Label	Required	Documentation
				ship":null,"format":{"input":null,"conn_default":null,"default":null,"sorting":null,"type":null,"options":null,"format":null,"mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null,"default":null,"immutable":null}
Record_ID_1	varchar2		<input type="checkbox"/>	{"type":"short_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation": [{"_id":"696a8b987297df53c6ed6de3","name":"Record ID","key":"field_97","object_key":null,"relationship":null,"format":null,"default":null,"immutable":true}]}
record_id	varchar2		<input checked="" type="checkbox"/>	
Rich_Text	varchar2		<input type="checkbox"/>	{"type":"rich_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation": [{"_id":"5f689604b3e682001590b425","name":"Rich Text","key":"field_16","object_key":"object_4","relationship":null,"format":null,"default":"","immutable":null}]}
Signature_base30	varchar2		<input type="checkbox"/>	
Signature_svg	varchar2		<input type="checkbox"/>	
Test_Name	varchar2		<input type="checkbox"/>	{"type":"short_text","required":true,"unique":false,"user":false,"conditional":false,"rules":[],"validation": [{"_id":"5f6895f53838c00015ce7fc7","name":"Test Name","key":"field_14","object_key":null,"relationship":null,"format":null,"default":null,"immutable":null}]}
Text_Formula	varchar2		<input type="checkbox"/>	{"type":"concatenation","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation": [{"_id":"5f68961f4395f40015a3df44","name":"Text Formula","key":"field_17","object_key":"object_4","relationship":null,"format":{"input":null,"conn_default":null,"default":null,"sorting":null,"type":null,"options":null,"format":null,"mark_

Name	Data Type	Label	Required	Documentation
				decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":"numeric"},"default":null,"immutable":null}
Timer_from_min	datetime		<input type="checkbox"/>	
Timer_stop_count	int32		<input type="checkbox"/>	
Timer_to_max	datetime		<input type="checkbox"/>	
Timer_total_time	int64		<input type="checkbox"/>	
USAddress_city	varchar2		<input type="checkbox"/>	
USAddress_state	varchar2		<input type="checkbox"/>	
USAddress_street	varchar2		<input type="checkbox"/>	
USAddress_street2	varchar2		<input type="checkbox"/>	
USAddress_zip	varchar2		<input type="checkbox"/>	
Yes_No	char		<input type="checkbox"/>	{ "type":"boolean","required":false,"unique":false,"user":false,"conditional":false,"rules": [],"validation": [{"_id":"5f6896494395f40015a3d-fcf","name":"Yes/No","key":"field_23","object_key":"object_4","relationship":null,"format":{"input":"dropdown n","conn_default":null,"default":"false","sorting":null,"type":null,"options":null,"format":"yes_no","mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":"false","immutable":null}] }

TestcaseIUD: Knack TestcaseIUDs

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: TestcaseIUDs

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table TestcaseIUD are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
File_filename	varchar2		<input type="checkbox"/>	
File_s3	char		<input type="checkbox"/>	
File_size	int32		<input type="checkbox"/>	
File_thumb_url	varchar2		<input type="checkbox"/>	
File_type	varchar2		<input type="checkbox"/>	
File_url	varchar2		<input type="checkbox"/>	
ID	decimal		<input type="checkbox"/>	{ "type": "auto_increment", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f915ae820b7840015577897", "name": "ID", "key": "field_87", "object_key": "object_11", "relationship": null, "format": null, "default": null, "immutable": null }
Image_filename	varchar2		<input type="checkbox"/>	
Image_s3	char		<input type="checkbox"/>	
Image_size	int32		<input type="checkbox"/>	
Image_thumb_url	varchar2		<input type="checkbox"/>	
Image_type	varchar2		<input type="checkbox"/>	
Image_url	varchar2		<input type="checkbox"/>	
Name	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": true, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f915ad36518fb0016a6d2d8", "name": "Name", "key": "field_86", "object_key": "object_11", "relationship": null, "format": null, "default": "", "immutable": null }
Record_ID_1	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "696a8b987297df53c6ed6df1", "name": "Record ID", "key": "field_104", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": true }
record_id	varchar2		<input checked="" type="checkbox"/>	

TestcaseIUDExpanded: Knack TestcaseIUDs

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: TestcaseIUDs

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table TestcaseIUDExpanded are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
File_data	blob		<input type="checkbox"/>	
File_filename	varchar2		<input type="checkbox"/>	
File_s3	char		<input type="checkbox"/>	
File_size	int32		<input type="checkbox"/>	
File_thumb_url	varchar2		<input type="checkbox"/>	
File_type	varchar2		<input type="checkbox"/>	
File_url	varchar2		<input type="checkbox"/>	
ID	decimal		<input type="checkbox"/>	{ "type": "auto_increment", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f915ae820b7840015577897", "name": "ID", "key": "field_87", "object_key": "object_11", "relationship": null, "format": null, "default": null, "immutable": null }
Image_data	blob		<input type="checkbox"/>	
Image_filename	varchar2		<input type="checkbox"/>	
Image_s3	char		<input type="checkbox"/>	
Image_size	int32		<input type="checkbox"/>	
Image_thumb_url	varchar2		<input type="checkbox"/>	
Image_type	varchar2		<input type="checkbox"/>	
Image_url	varchar2		<input type="checkbox"/>	
Name	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": true, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f915ad36518fb0016a6d2d8", "name": "Name", "key": "field_86", "object_key": "object_11", "relationship": null, "format": null, "default": "", "immutable": null }
Record_ID_1	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "696a8b987297df53c6ed6df1", "name": "Record ID", "key": "field_104", "object_key": null, "relation-

Name	Data Type	Label	Required	Documentation
				ship":null,"format":null,"default":null,"immutable":true}
record_id	varchar2		<input checked="" type="checkbox"/>	

TestExpanded: Knack Tests

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: Tests

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table TestExpanded are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
AddressWithGeocoding_city	varchar2		<input type="checkbox"/>	
AddressWithGeocoding_latitude	decimal		<input type="checkbox"/>	
AddressWithGeocoding_longitude	decimal		<input type="checkbox"/>	
AddressWithGeocoding_state	varchar2		<input type="checkbox"/>	
AddressWithGeocoding_street	varchar2		<input type="checkbox"/>	
AddressWithGeocoding_street2	varchar2		<input type="checkbox"/>	
AddressWithGeocoding_zip	varchar2		<input type="checkbox"/>	
Auto_Increment	decimal		<input type="checkbox"/>	{ "type": "auto_increment", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f689643b3e682001590b4ca", "name": "Auto Increment", "key": "field_21", "object_key": "object_4", "relationship": null, "format": null, "default": null, "immutable": null }
Currency	decimal		<input type="checkbox"/>	{ "type": "currency", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f6896274395f40015a3df57", "name": "Currency", "key": "field_19", "object_key": "object_4", "relationship": null, "format": { "input": null, "conn_default": null, "default": null, "sorting": null, "type": null, "options": null, "format": "\$", "mark_decimal": null, "mark_thousands": null, "preci-

Name	Data Type	Label	Required	Documentation
				<pre> sion":null,"rounding":null,"show_ com- mas":null,"pre":null,"post":null,"te xt_format":null,"label":null,"en- able_geocoding":false,"equa- tion_type":null},"default":"","im- mutable":null} </pre>
Date_Time	datetime		<input type="checkbox"/>	
Email_email	varchar2		<input type="checkbox"/>	
Email_label	varchar2		<input type="checkbox"/>	
Equation	decimal		<input type="checkbox"/>	
File_data	blob		<input type="checkbox"/>	
File_filename	varchar2		<input type="checkbox"/>	
File_s3	char		<input type="checkbox"/>	
File_size	int32		<input type="checkbox"/>	
File_thumb_url	varchar2		<input type="checkbox"/>	
File_type	varchar2		<input type="checkbox"/>	
File_url	varchar2		<input type="checkbox"/>	
Image_data	blob		<input type="checkbox"/>	
Image_filename	varchar2		<input type="checkbox"/>	
Image_s3	char		<input type="checkbox"/>	
Image_size	int32		<input type="checkbox"/>	
Image_thumb_url	varchar2		<input type="checkbox"/>	
Image_type	varchar2		<input type="checkbox"/>	
Image_url	varchar2		<input type="checkbox"/>	
IntlAddress_city	varchar2		<input type="checkbox"/>	
IntlAddress_state	varchar2		<input type="checkbox"/>	
IntlAddress_street	varchar2		<input type="checkbox"/>	
IntlAddress_street2	varchar2		<input type="checkbox"/>	
IntlAddress_zip	varchar2		<input type="checkbox"/>	
IntlAddressLatLng_latitude	decimal		<input type="checkbox"/>	
IntlAddressLatLng_longitude	decimal		<input type="checkbox"/>	
IntlAddressWithCountry_city	varchar2		<input type="checkbox"/>	
IntlAddressWithCountry_country	varchar2		<input type="checkbox"/>	
IntlAddressWithCountry_state	varchar2		<input type="checkbox"/>	
IntlAddressWithCountry_street	varchar2		<input type="checkbox"/>	
IntlAddressWithCountry_street2	varchar2		<input type="checkbox"/>	
IntlAddressWithCountry_zip	varchar2		<input type="checkbox"/>	
Link_label	varchar2		<input type="checkbox"/>	
Link_url	varchar2		<input type="checkbox"/>	
Multiple_Choice	varchar2		<input type="checkbox"/>	<pre> {"type":"multiple_choice","re- quired":false,"unique":false,"user ":false,"conditional":false,"rules": [],"validation": </pre>

Name	Data Type	Label	Required	Documentation
				[{"_id":"5f689646b3e682001590b4de","name":"Multiple Choice","key":"field_22","object_key":"object_4","relationship":null,"format":{"input":null,"conn_default":null,"default":"kn-blank","sorting":"alphabetical","type":"single","options":["First Choice","Second Choice","Third Choice"],"format":null,"mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":null,"immutable":null}]
Name_firstname	varchar2		<input type="checkbox"/>	
Name_lastname	varchar2		<input type="checkbox"/>	
Name_middlename	varchar2		<input type="checkbox"/>	
Name_title	varchar2		<input type="checkbox"/>	
Number	decimal		<input type="checkbox"/>	{"type":"number","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[{"_id":"5f6896244395f40015a3df4e","name":"Number","key":"field_18","object_key":"object_4","relationship":null,"format":{"input":null,"conn_default":null,"default":null,"sorting":null,"type":null,"options":null,"format":"none","mark_decimal":"none","mark_thousands":"none","precision":"2","rounding":"none","show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":"","immutable":null}]}
Paragraph_Text	varchar2		<input type="checkbox"/>	{"type":"paragraph_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[{"_id":"5f689601b3e682001590b418","name":"Paragraph Text","key":"field_15","object_key":"object_4","relationship":null,"format":null,"default":"","immutable":null}]}
Phone	varchar2		<input type="checkbox"/>	
Rating	decimal		<input type="checkbox"/>	{"type":"rating","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[]}

Name	Data Type	Label	Required	Documentation
				<pre> {".false","conditional":false,"rules": [],"validation": [],"_id":"5f6896823758ec001589 d9cd","name":"Rat- ing","key":"field_35","ob- ject_key":"object_4","relation- ship":null,"format":{"in- put":null,"conn_default":null,"de- fault":null,"sort- ing":null,"type":null,"op- tions":null,"format":null,"mark_- decimal":null,"mark_thou- sands":null,"preci- sion":null,"rounding":null,"show_- com- mas":null,"pre":null,"post":null,"te xt_format":null,"label":null,"en- able_geocoding":false,"equa- tion_type":null},"default":null,"im- mutable":null} </pre>
Record_ID_1	varchar2		<input type="checkbox"/>	<pre> {"type":"short_text","re- quired":false,"unique":false,"user ":false,"conditional":false,"rules": [],"validation": [],"_id":"696a8b987297d- f53c6ed6de3","name":"Record ID","key":"field_97","ob- ject_key":null,"relation- ship":null,"format":null,"de- fault":null,"immutable":true} </pre>
record_id	varchar2		<input checked="" type="checkbox"/>	
Rich_Text	varchar2		<input type="checkbox"/>	<pre> {"type":"rich_text","re- quired":false,"unique":false,"user ":false,"conditional":false,"rules": [],"validation": [],"_id":"5f689604b3e682001590 b425","name":"Rich Text","key":"field_16","ob- ject_key":"object_4","relation- ship":null,"format":null,"de- fault":"","immutable":null} </pre>
Signature_base30	varchar2		<input type="checkbox"/>	
Signature_svg	varchar2		<input type="checkbox"/>	
Test_Name	varchar2		<input type="checkbox"/>	<pre> {"type":"short_text","re- quired":true,"unique":false,"user ":false,"conditional":false,"rules": [],"validation": [],"_id":"5f6895f53838c00015ce7 fc7","name":"Test Name","key":"field_14","ob- ject_key":null,"relation- ship":null,"format":null,"de- fault":null,"immutable":null} </pre>
Text_Formula	varchar2		<input type="checkbox"/>	<pre> {"type":"concatenation","re- quired":false,"unique":false,"user ":false,"conditional":false,"rules": [],"validation": [],"_id":"5f68961f4395f40015a3d f44","name":"Text For- mula","key":"field_17","ob- </pre>

Name	Data Type	Label	Required	Documentation
				ject_key":"object_4","relationship":null,"format":{"input":null,"conn_default":null,"default":null,"sorting":null,"type":null,"options":null,"format":null,"mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":"numeric"},"default":null,"immutable":null}
Timer_from_min	datetime		<input type="checkbox"/>	
Timer_stop_count	int32		<input type="checkbox"/>	
Timer_to_max	datetime		<input type="checkbox"/>	
Timer_total_time	int64		<input type="checkbox"/>	
USAddress_city	varchar2		<input type="checkbox"/>	
USAddress_state	varchar2		<input type="checkbox"/>	
USAddress_street	varchar2		<input type="checkbox"/>	
USAddress_street2	varchar2		<input type="checkbox"/>	
USAddress_zip	varchar2		<input type="checkbox"/>	
Yes_No	char		<input type="checkbox"/>	{"type":"boolean","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation":[],"_id":"5f6896494395f40015a3dcfcf","name":"Yes/No","key":"field_23","object_key":"object_4","relationship":null,"format":{"input":"dropdown","conn_default":null,"default":"false","sorting":null,"type":null,"options":null,"format":"yes_no","mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":"false","immutable":null}

testpho: Knack testphos

Catalog: Knack

Schema: Objects

Primary Keys: record_id

Label: testphos

Can retrieve data and change data using insert, update and delete.

Table Columns

The columns of the table testpho are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.

Name	Data Type	Label	Required	Documentation
datefield	datetime		<input type="checkbox"/>	
Record_ID_1	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "696a8b987297df53c6ed6df3", "name": "Record ID", "key": "field_105", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": true}
record_id	varchar2		<input checked="" type="checkbox"/>	
Revenue_FY0_Criteria_#1	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "6418457016ee4400280d2a0c", "name": "Revenue FY0 Criteria #1", "key": "field_93", "object_key": null, "relationship": null, "format": null, "default": null, "immutable": null}
text	varchar2		<input type="checkbox"/>	{ "type": "short_text", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5fc8c1038c3dfe001deaceca", "name": "text", "key": "field_91", "object_key": "object_12", "relationship": null, "format": null, "default": "", "immutable": null}

3.1.6 Schema: Product_Details

3.1.6.1 Tables

Product_DetailsByld

Catalog: Knack

Schema: Product_Details

This is a read-only table function. The Knack API may not support changing the data or the Invariantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Knack API.

Parameters of Table Function

The following parameters can be used to control the behaviour of the table function Product_DetailsByld. A value must be provided at all times for required parameters, but optional

parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``select * from table(value1, value2, value3)`` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``select * from table(name1 => value1, name3 => value3)`` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
id	varchar2	<input checked="" type="checkbox"/>		

Columns of Table Function

The columns of the table function `Product_DetailsById` are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
DUMMY	varchar2		<input checked="" type="checkbox"/>	Default column added since the specification specifies that no data is returned.
record_id	varchar2		<input checked="" type="checkbox"/>	

3.1.7 Schema: ProductsMenu

3.1.7.1 Tables

Products: Knack Table

Catalog: Knack

Schema: ProductsMenu

Label: Table

This is a read-only view. The Knack API may not support changing the data or the Invariantive UniversalSQL driver for Knack does not cover it. In the latter case, please use the table `NativePlatformScalarRequests` to upload data to the Knack API.

View Columns

The columns of the view `Products` are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
Available	char		<input type="checkbox"/>	<pre>{ "type": "boolean", "required": false, "unique": false, "user": false, "conditional": false, "rules": [], "validation": [], "_id": "5f68423c4395f40015a2f020", "name": "Available", "key": "field_13", "object_key": null, "relation": </pre>

Name	Data Type	Label	Required	Documentation
				ship":null,"format":{"input":"dropdown","conn_default":null,"default":"false","sorting":null,"type":null,"options":null,"format":"yes_no","mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":"false","immutable":null}
Description	varchar2		<input type="checkbox"/>	{"type":"paragraph_text","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation": [{"_id":"5f68423b4395f40015a2f01e","name":"Description","key":"field_11","object_key":null,"relationship":null,"format":null,"default":null,"immutable":null}
Image_filename	varchar2		<input type="checkbox"/>	
Image_s3	char		<input type="checkbox"/>	
Image_size	int32		<input type="checkbox"/>	
Image_thumb_url	varchar2		<input type="checkbox"/>	
Image_type	varchar2		<input type="checkbox"/>	
Image_url	varchar2		<input type="checkbox"/>	
Price	decimal		<input type="checkbox"/>	{"type":"currency","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation": [{"_id":"5f68423b4395f40015a2f01f","name":"Price","key":"field_12","object_key":null,"relationship":null,"format":{"input":null,"conn_default":null,"default":null,"sorting":null,"type":null,"options":null,"format":"\$","mark_decimal":null,"mark_thousands":null,"precision":null,"rounding":null,"show_commas":null,"pre":null,"post":null,"text_format":null,"label":null,"enable_geocoding":false,"equation_type":null},"default":null,"immutable":null}
Product_ID	decimal		<input type="checkbox"/>	{"type":"auto_increment","required":false,"unique":false,"user":false,"conditional":false,"rules":[],"validation": [{"_id":"5f68423b4395f40015a2f01c","name":"Product ID","key":"field_9","object_key":null,"relation-

Name	Data Type	Label	Required	Documentation
				ship":null,"format":null,"default":null,"immutable":null}
record_id	varchar2		<input checked="" type="checkbox"/>	

4 Package: dcr_metadata

4.1 Procedures

4.1.1 dcr_metadata.get_partitions: Knack Data container metadata package

Get all partitions.

Documentation:

List all partitions.

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design_regions_header_menu_mobile_menu_links_background_color	16, 21	2	download-error-503-server-unavailable-sleep-initial-ms	2
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details_filter_fields	44, 47	2	download-error-503-server-unavailable-sleep-multiplicat	2
details_filter_type	44, 47	or 2	download-error-504-gateway-timeout-max-tries	2
details_label_format	44, 47	2	download-error-504-gateway-timeout-sleep-initial-ms	2
details_layout	44, 47	2	download-error-504-gateway-timeout-sleep-max-ms	2
details_list_layout	44, 47	2	download-error-504-gateway-timeout-sleep-multiplicato	2
display_pagination_below	44, 47	2	download-error-504-gateway-timeout-sleep-multiplicato	2
download-error-400-bad-request-max-tries	2	2	download-error-590-network-connect-timeout-max-tries	2
download-error-400-bad-request-sleep-initial-ms	2	2	download-error-590-network-connect-timeout-sleep-initi	2
download-error-400-bad-request-sleep-max-ms	2	2	download-error-590-network-connect-timeout-sleep-ma	2
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