
Command Reference:

CreateDataStoreDataDictionary()

Create an HTML data dictionary for a datastore

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The `CreateDataStoreDataDictionary()` command creates an HTML data dictionary and Entity Relationship (ER) Diagram for a database datastore. The `Java DatabaseMetaData` class is used to access database metadata. Current limitations are as follows:

- The command has been tested with SQL Server, Microsoft Access, MySQL, Oracle, and PostgreSQL databases. The command may or may not work with other databases.
- SQL Server is supported to a limited degree. Table and column descriptions currently cannot be retrieved due to limitations in SQL Server database drivers.
- Data dictionary output is only as complete as the metadata defined by the database administrator – there currently is no way to provide additional information via the command, although in the future an ability to provide table and column descriptions using an input table may be implemented.
- The ER Diagram capability is under development.
- Information for procedures, functions, and triggers is not implemented.

The data dictionary output from the command is an HTML file that provides:

- General database information.
- A list of tables and views, which link to table details.
- For each table, the details for the columns in the table, including name, data type, remarks (description), whether null is allowed, and indication of whether the columns are primary or foreign keys.
- Reference tables have all of their data listed to help understand relationships.

The following dialog is used to edit the command and illustrates the syntax for the command:

Edit CreateDataStoreDataDictionary() Command

This command creates an HTML data dictionary for the specified database datastore. Metadata such as column names, types, and descriptions are read from the database. Some databases may not support features that allow metadata to be determined.

Datastore: Required - datastore of interest.

Tables

Reference tables will be output in their entirety in the data dictionary.
Tables that are excluded below won't be included in the data dictionary.

Reference tables: Optional - names of reference tables (default=none).
Exclude tables: Optional - tables to exclude, *=wildcard (default=include all).

Command:

```
CreateDataStoreDataDictionary(DataStore="ReclamationPisces",ReferenceTables="ref_parameter,piscesinfo",ExcludeTables="pnhydromet_*,greatplains_*,lchdb2_*,uchdb2_*",OutputFile="Pisces-DataDictionary.html")
```

CreateDataStoreDataDictionary_Tables

CreateDataStoreDataDictionary() Command Editor for Table Parameters

Tables

Specify the output file and how to format content of the dictionary.
If comments (remarks) are defined with surrounding <html> and </html> the content will be passed through to HTML output.
Parameters are provided to format comment/remark content in HTML output.

Output file:

Surround with <pre></pre>?: Optional - surround content with <pre></pre> (default=False).
Newline: Optional - string to replace newlines (default=blank).
Encode HTML characters?: Optional - encode < >, etc. to protect in HTML (default=True).

CreateDataStoreDataDictionary

CreateDataStoreDataDictionary() Command Editor for Data Dictionary Parameters

Tables

Features to create an Entity Relation Diagram are under development
In the future this command will use an input table with diagram coordinates and create the diagram.

Layout table ID: Required - table containing ER diagram layout data.
Layout table name column: Required - name of column containing table names.
Layout table X column: Required - name of X-coordinate column.
Layout table Y column: Required - name of Y-coordinate column.
Page size: Optional - page size name (default=11x17 [B]).
Orientation: Optional - page orientation (default=Landscape).
View diagram: Optional - display ER diagram in window (default=False).

CreateDataStoreDataDictionary_ERDiagram

CreateDataStoreDataDictionary() Command Editor for Entity Relationship Diagram Parameters

The command syntax is as follows:

```
CreateDataStoreDataDictionary (Parameter=Value, ...)
```

Command Parameters

Parameter	Description	Default
DataStore	The name of a database datastore. Can be specified using <code>\${Property}</code> .	None – must be specified.
ReferenceTables	A comma-separated list of database reference tables. The content of these tables will be output in their entirety. Can be specified using <code>\${Property}</code> .	No reference tables
ExcludeTables	A comma-separated list of tables to exclude from output, for example to exclude database system tables. Use * as a wildcard.	Include all tables.
OutputFile	The name of the file for the HTML data dictionary. Can be specified using <code>\${Property}</code> .	None.
SurroundWithPre	Specify as True if comments for table columns should be surrounded with <code><pre></pre></code> in output, useful if comments included newlines for formatting. In this case Newline and EncodeHtmlChars are ignored.	False
Newline	String to replace newline in table column comments. For example use <code>
</code> to preserve newlines in HTML output. Specifying True will cause EncodeHtmlChars to be ignored.	Space
EncodeHtmlChars	Specify as True if characters such as < should be encoded to display in HTML, False to pass through comment content as is with no encoding.	True
ERDiagramLayoutTableID	The table identifier for the table supplying ER Diagram coordinate information. Can be specified using <code>\${Property}</code> .	None – must be specified if ER Diagram is created.
ERDiagramLayoutTableXColumn	The name of the column in the layout table containing the X coordinates for the ER Diagram. Coordinates should be specified in points (1/72 of inch) as position on page size. Can be specified using <code>\${Property}</code> .	None – must be specified.
ERDiagramLayoutTableYColumn	The name of the column in the layout table containing the Y coordinates for the ER Diagram. Can be specified using <code>\${Property}</code> .	None – must be specified.
ERDiagramPageSize	The page size for the ER Diagram layout. Currently this defaults to 11x17 (B).	B
ERDiagramOrientation	The orientation of the ER Diagram.	Landscape
ViewERDiagram	Indicate whether the ER Diagram should be shown in a window when the commands are run.	False

The following is an example of an Excel workbook with ER Diagram layout data.

	A	B	C
1	Table	X	Y
2	addr	41.68	64.42
3	addrfeat	62.53	96.63
4	bg	83.37	128.84
5	countysub_lookup	104.21	161.05
6	county_lookup	125.05	193.26
7	cousub	145.89	225.47
8	direction_lookup	166.74	257.68

CreateDataStoreDataDictionary_Layout

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