Cheatography

Schematiq for beginners Cheat Sheet by Neil via cheatography.com/189731/cs/39562/

Getting started with text

txt.Split	Splits text: "A,B" => "A" and "B" (in separate cells)
txt.Join	Joins text: "A", "B" and "C" => "A,B,C"
txt.Reverse	Reverses a text input: "ABC" => "CBA"
txt.Format	Applies a pattern: txt.Format("Hi {0}", "Fred") => "Hi Fred"
regex.l- sMatch	Tests text against a regex (returns TRUE or FALSE)

Getting started with tables

tbl.Create	Creates a table from data and (optionally) headers
tbl.Selec- tColumns	Selects only certain columns from a table
tbl.Sort	Sorts a table based on or more columns
tbl.Filter	Filters a table (on a row-by-row basis) based on a filter function
tbl.Calcu- lat- eColumn	Extends the table, adding a new column (calculated row by row)
tbl.Group	Aggregates a table (similar to a SQL 'group by')
tbl.Ge- tValue	Extract exactly one value from a table
tbl.Ge- tValues	Get all values from a table (or those in a specific column) - can be used to return Schematiq data to Excel

Getting started with databases

db.Connect	Connect to a database
tbl.Connect	Connect to a table in the database
tbl.Group (etc)	Behaviour equivalent to in-memory tables
tbl.Download	Download a full table or query result into memory
db.Query	Execute custom SQL
db.Insert	Insert rows of a Schematiq table into a database table
db.Connec- tCustom	Connect using a custom connection string

Getting started with databases (cont)

azTbl.ConnectCustom (etc)

Connect to Azure Table Storage

Supported data providers	
mssql, 'sql server', etc	MS SQL Server
access, msaccess, accdb, mdb	MS Access
hana	SAP HANA
mysql	MySQL
oracle	Oracle
postgresql, postgres	PostgreSQL
snowflake	Snowflake
sqlite	SQLite
vertica	HP Vertica
az.~ and azTbl.~	Azure Table Storage

Azure Table Storage is a NoSQL service and is supported through a dedicated group of add-in functions. All other providers use SQL-based connectivity.

Advanced table functions	
tbl.Pivot	Pivot a table (similar to an Excel pivot table)
tbl.Unpivot	Unpivot a table (broadly, the reverse of tbl.Pivot)
tbl.Pack	Group a table, creating a column of sub-tables
tbl.Unpack	Unpack a packed table (reverse of tbl.Pack)
tbl.Union	Combine two tables with the same columns
tbl.Join	Perform a SQL-like join (several variants possible)
tbl.Lookup	Search for value(s) and extract a value from that row
tbl.SelectRows	Select certain rows (numerically) from a table
tbl.UpdateCo- lumns	Update many columns using a specified function

By Neil

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File and folder operations

file.ListFiles

file.Open

file.Save

file.OpenText

file.SaveText sq.Save

file.ListFolders

Trees and ranges	
tree.Create	Create a tree from a suitable Excel range
tree.NodeCount	Returns the number of nodes in a tree
tree.Union	Combine two trees
tree.GetValues	Returns all values from a tree
tree.Add	Add a new node to a tree (by name/value)
tree.Remove	Remove a node from a tree (by name)
tree.Replace	Replace the value of a named node in a tree
rng.Create	Create a Schematiq range from an Excel range
rng.Sequence	Create a range of numbers of specific length and 'step'
rng.Subset	Extract a subset of a range
rng.TopTo- Bottom	Combine two ranges top to bottom
rng.LeftToRight	Combine two ranges left to right

Data processing (CSV, JSON, XML, HTML)

tbl.ExportDe- limited	Exports a table to CSV format
tbl.ImportDe- limited	Imports a table from CSV (or other delimited) format
tree.ExportJson	Exports a tree to JSON format
tree.ImportJson	Imports JSON into a tree
tbl.ExportJson	Exports a table to JSON format
tbl.ImportJson	Imports JSON into a table (JSONPath syntax available)
tree.ExportXml	Exports a tree to XML format
tree.ImportXml	Imports XML into a tree
tbl.ImportXml	Imports XML into a table (XPath syntax available)
tbl.ImportHtml	Imports HTML into a table (XPath syntax available)
Web functions	
web Get	Creates a simple GET request

sq.Load	Loads an object saved using sq.Save()
User-define	ed functions (UDFs)
fn.FromSni	<pre>ppet Creates a UDF from a snippet, e.g. "(x, y) => x + (2 * y)"</pre>
fn.FromTe- mplate	Creates a UDF from a specified Excel range
xl.Load	Loads an Excel workbook into Schematiq memory
fn.FromWo rkbook	- Creates a UDF from an Excel workbook
fn.Call	Executes a UDF
fn.FixInput	Fixes the value of a single input to a UDF
fn.SetAsyn	c Makes a UDF synchronous or asynchronous
Date and ti	me handling
dt.Offset	Offsets a date (e.g. by a day, business day, week, etc)
dt.Seq- uence	Generates a sequence of dates with required periodicity
dt.Seq- uenceB- etween	Generates a sequences between start/end dates or times
dt.Per- iodsBe- tween	Returns the number of periods in a given interval (e.g. hours in a given day - useful for handling daylight saving!)
dt.Cha- ngeTim- eZone	Changes a date-time from one IANA time zone to another

List all files in a folder (wildcards accepted)

Saves a file in a format-specific manner

Opens a file as text for reading

Opens a file for reading

Saves a file as text

List all subfolders in a folder (wildcards accepted)

Saves an object in a custom Schematiq format

Creates a simple GET request web.Get web.Post Creates a POST request web.Response Executes a web request web.CustomRequest Creates a configurable web request

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Use of dt.Offset	
D	Day
В	Business day
W	Week
Μ	Month
Q	Quarter
S	Commodities season (Apr-Sep, Oct-Mar)
Υ	Year
Н	Hour
'	Minute
"	Second
@	At exactly
+	Move forward
-	Move backwards
<	Move to previous
<=	Move to previous (unless currently at exact)
>	Move to next
>=	Move to next (unless currently at exact)
Operators can be combined, for example -B@18H30' means "the previous business day at 18:30". The same syntax can be used for	

previous business day at 18:30". The same syntax can be used for sequences, for example dt.Sequence(TODAY(), 6, "2M") will generate a year's worth of 2-month intervals.

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