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Documentation

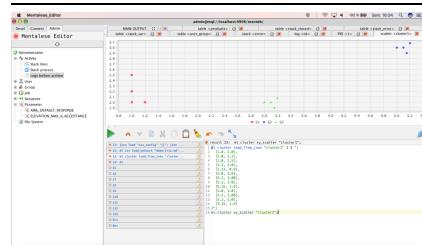
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Welcome to MentDB, The first mentalese database engine.

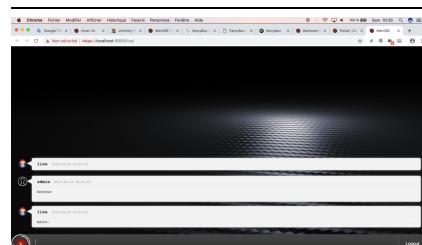
Machine learning



MentDB also provide you with standard learning algorithms:

- Linear regression
- Multiple regression
- Distance
- Neural network
- Clustering

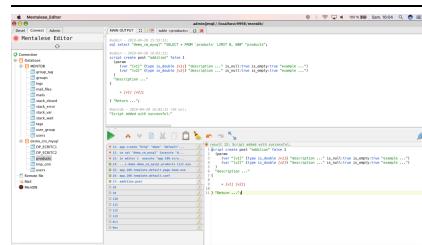
Chatbot



All the above features can be controlled by Lisa the AI ...

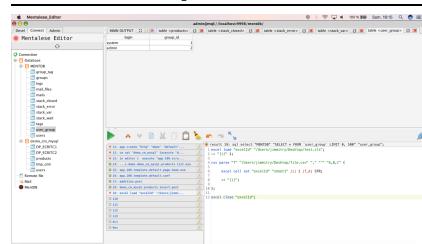
[Go to demonstration ...](#)

SOA architecture



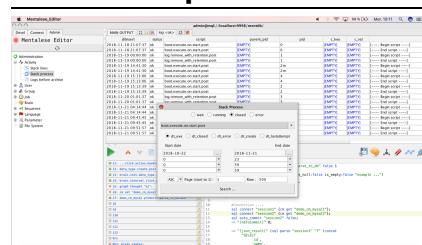
MentDB allows you to record and organize all your developments in scripts. Your business scripts will be immediately REST Full, documented, secured by users and encrypted. No more spaghetti dishes! You can not only transfer your data by web-service, but also business logic active ! And icing on the cake, your processes can be fully mapped. It is therefore very easy to know where there is a bug in your applications. The time saved to ensure the patches is considerable! And you know it, time is money!

ETL development



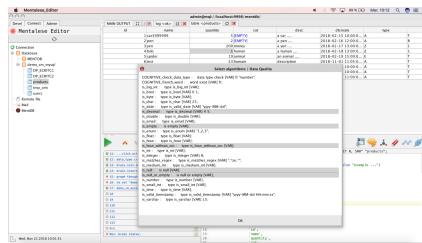
MentDB can help you create ETL type processes (Extract data from your IS, transform it and re-inject it into other software / formats). Already ready algorithms will help you go faster. Sources and destinations : JSON, XML, File, CSV, REST and SOAP, Compress, SQL, MentDB, Pop3, Imap, FTP, SFTP, CIFS, SSH, Excel, Excelx ...

ESB development



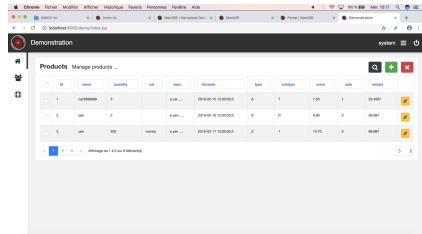
MentDB has everything you need to guarantee process execution and information transfer asynchronously. It will process your scripts in time and in hours, with maximum efficiency.

Data quality



MentDB can work on the quality of your data, network it, reorganize it and prepare it for analysis. Your data is ready to give you their little secrets ...

Application development



MentDB allows you to create web applications (HTML + CSS + BOOTSTRAP + AJAX). All thanks to its MQL language that allows you to do SCRUD operations with AJAX development server side without web-service.

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Artificial Intelligence

Machine Learning

Bot

Mentalese

Language

Word

Relation

Concentration

NoSQL Database

Sequence

Transaction

Server

Metric

Session

Log

Server

Deep Learning

Symbol

Thought

Circle

Node

File System

Environment variable

Parameter

OS

App

app create app show
app is granted a app is granted sa
app exist app delete
app webserver restart app menu
app menu show app sajax 2 script create remote
app sajax 1 skeleton html div app sajax 1 skeleton css container
app sajax 1 skeleton css row app sajax 1 skeleton css col
app sajax 1 skeleton onload app sajax 1 skeleton on click button
app sajax 1 skeleton on click event app sajax 1 skeleton import all charts
app sajax 3 in loading button in container app sajax 3 in loading refresh container with data
app sajax 3 in loading show alert app sajax 3 in loading execute javascript
app sajax 3 in loading on click button app sajax 3 in loading on click event
app sajax 3 in loading import all chart app sajax 3 in loading form
app sajax 3 in loading form control textbox text app sajax 3 in loading form control textbox range
app sajax 3 in loading form control textbox number app sajax 3 in loading form control textbox mail
app sajax 3 in loading form control textbox tel app sajax 3 in loading form control textbox time
app sajax 3 in loading form control textbox date app sajax 3 in loading form control textbox date en
app sajax 3 in loading form control textbox datetime app sajax 3 in loading form control textbox datetime en
app sajax 3 in loading form control textbox color app sajax 3 in loading form control textbox password
app sajax 3 in loading form control textbox file app sajax 3 in loading form control textarea
app sajax 3 in loading form control textarea ckeditor app sajax 3 in loading form control select mono
app sajax 3 in loading form control select multiple app sajax 3 in loading form control radio line
app sajax 3 in loading form control radio inline app sajax 3 in loading form control checkbox line
app sajax 3 in loading form control checkbox inline app sajax 3 in loading form control hidden

Virtual host

app vhost add app vhost show
app vhost exist app vhost delete

Script

[script create](#) [script create|insert|add](#)
[script set delay](#)
[script generate create](#)
[script copy](#)
[script rename](#)
[script exist](#)
[script show ghost](#)
[script export group](#)
[script get all](#)
[call](#)
[script is granted](#)
[script generate delay](#)
[script generate stack](#)
[script generate include](#)
[script show groups](#)
[script delete](#)

[script update](#)
[script get](#)
[script generate update](#)
[script copy all](#)
[script rename all](#)
[script show](#)
[script export all](#)
[script import group](#)
[execute](#)
[include](#)
[script generate url](#)
[script generate execute](#)
[script generate call](#)
[script generate sub include](#)
[script show users](#)
[script delete all](#)

User

[user create](#) [user create|insert|add](#)
[user force create](#) [user force create|insert|add](#)
[user secret key](#)
[user show](#)
[user show scripts](#)

[user check password](#)
[user exist](#)
[user set password](#)
[user show groups](#)
[user disable](#)

Group

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[group grant user](#)
[group grant all script](#)
[group is granted user](#)
[group get](#)
[group get script](#)
[group ungrant user](#)
[group remove](#)

[group exist](#)
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[group ungrant all script](#)
[group is granted script](#)
[group get user](#)
[group show](#)
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Cluster

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[cluster signal process](#)
[cluster signal set](#)
[cluster signal show](#)
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[cluster nodes show obj](#)
[cluster node delete](#)
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[cluster create](#)
[cluster delete](#)
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[cluster nodes show txt](#)
[cluster node expels](#)
[cluster execute](#)
[cluster node generate set](#)

MQL Syntax

category1 categoryN action param1 paramN

Data Type

numeric	string
null	[n]
[r]	variable
boolean	json
comment	error

Statement

eval	parallel
if	if force
case	switch
for	while
repeat	break
continue	exception
try	

Operator

<u>±</u>	<u>bi+</u>
<u>=</u>	<u>bi-</u>
<u>*</u>	<u>bi*</u>
<u>-</u>	<u>bi/</u>
<u>/</u>	<u>or</u>
<u>and</u>	<u>not</u>
<u>xor</u>	<u>is not null</u>
<u>is null</u>	<u>is empty</u>
<u>is null or empty</u>	<u>equal</u>
<u>is not empty</u>	<u>==</u>
<u>not equal</u>	<u>≥</u>
<u>!=</u>	<u>≤</u>
<u>≥=</u>	
<u>≤=</u>	

Date

<u>date add</u>	<u>date addt</u>
<u>date current_ms</u>	<u>date current_ns</u>
<u>date curdate</u>	<u>date current_date</u>
<u>date current_time</u>	<u>date current_timestamp</u>
<u>date curtime</u>	<u>date curtimestamp</u>
<u>date dateadd</u>	<u>date dateaddt</u>
<u>date datediff</u>	<u>date datedifft</u>
<u>date ts_to_long</u>	<u>date dt_to_long</u>
<u>date long_to_dt</u>	<u>date long_to_ts</u>
<u>date day_of_month</u>	<u>date day_of_week</u>
<u>date day_of_year</u>	<u>date dayname</u>
<u>date diff</u>	<u>date difft</u>
<u>date full_systimestamp</u>	<u>date hour</u>
<u>date is_valid_date</u>	<u>date is_valid_date</u>
<u>date is_valid_time</u>	<u>date is_valid_timestamp</u>
<u>date is_valid_timestamp</u>	<u>date format</u>
<u>date minute</u>	<u>date month</u>
<u>date monthname</u>	<u>date nb_day</u>
<u>date seconde</u>	<u>date sysdate</u>
<u>date systime</u>	<u>date systimestamp</u>
<u>date now</u>	<u>date systimestamp_min</u>
<u>date time</u>	<u>date year</u>

Math

[math abs](#) [math base_to_base](#)
[math acos](#) [math asin](#)
[math atan](#) [math atan2](#)
[math avg](#) [math bit_and](#)
[math bit_or](#) [math bit_xor](#)
[math cbrt](#) [math ceil](#)
[math ceiling](#) [math cos](#)
[math cosh](#) [math cot](#)
[math decimal_format](#) [math deg_to_rad](#)
[math e](#) [math exp](#)
[math expm1](#) [math floor](#)
[math hypot](#) [math log](#)
[math log10](#) [math log1p](#)
[math max](#) [math min](#)
[math mod](#) [math pi](#)
[math pow](#) [math power](#)
[math rad_to_deg](#) [math random](#)
[math rint](#) [math round](#)
[math sign](#) [math signum](#)
[math sin](#) [math sinh](#)
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String

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[string sha](#) [string count](#)
[string encode_sign_generate_keypair](#) [string encode_sign](#)
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[string encode_rsa](#) [string decode_rsa](#)
[string encode_des_generate_key](#) [string encode_des](#)
[string decode_des](#) [string encode_blowfish](#)
[string decode_blowfish](#) [string encode_pbe](#)
[string decode_pbe](#) [string encode_b64](#)
[string decode_b64](#) [string del_char_before_each_line](#)
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[string first_letter_upper](#) [string first_letter](#)
[string generate_random_str](#) [string hex](#)
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[string indent](#)
[string instr](#)
[string int to hex](#)
[string is letter](#)
[string is alpha num](#)
[string ltrim](#)
[string left](#)
[string like](#)
[string locate](#)
[string lpad](#)
[string ltrim0](#)
[string matches](#)
[string mid](#)
[string not regexp](#)
[string oct to int](#)
[string position](#)
[string repeat](#)
[string replace](#)
[string right](#)
[string rtrim](#)
[string split](#)
[string split sentence](#)
[string starts with or](#)
[string strcmp](#)
[string strpos](#)
[string substr](#)
[string substring](#)
[string to string](#)
[string empty if null](#)
[string trim](#)
[string txt2](#)
[string unhex](#)
[string zero](#)

[string instr](#)
[string int to char](#)
[string int to oct](#)
[string is alpha num uds](#)
[string is number char](#)
[string lcase](#)
[string length](#)
[string locate](#)
[string lower](#)
[string ltrim](#)
[string ltrim](#)
[string mid](#)
[string not like](#)
[string oct](#)
[string position](#)
[string regexp](#)
[string repeat insert str](#)
[string reverse](#)
[string rpad](#)
[string space](#)
[string split mql](#)
[string starts with](#)
[string str to hex](#)
[string strpos](#)
[string sublchar](#)
[string substr](#)
[string substring](#)
[string encode](#)
[string null if empty](#)
[string txt](#)
[string ucase](#)
[string upper](#)
[type is matches regex](#)

Type

[type is bool](#)
[type is char](#)
[type is decimal](#)
[type is hour](#)
[type is hour without sec](#)
[type is number](#)
[type is small int](#)
[type is int](#)
[type is float](#)
[type is timestamp](#)
[type is valid date](#)
[type is valid timestamp](#)
[type is varchar](#)

[type is enum](#)
[type is date](#)
[type is email](#)
[type is time](#)
[type is integer](#)
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[type is medium int](#)
[type is big int](#)
[type is double](#)
[type is valid date](#)
[type is valid time](#)
[type is valid timestamp](#)

Constant

[constant math four pi](#)
[constant math pi](#)
[constant math two pi](#)
[constant physics amu](#)
[constant physics c](#)
[constant physics e](#)
[constant physics f](#)
[constant physics g](#)
[constant physics k](#)
[constant physics m deuteron](#)
[constant physics m muon](#)
[constant physics m proton](#)
[constant physics mp](#)
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[constant physics perm vac electric](#)
[constant physics planck](#)
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[constant physics stefan boltzmann](#)
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[constant math pi square](#)
[constant physics a0](#)
[constant physics bohr magneton](#)
[constant physics c square](#)
[constant physics eh](#)
[constant physics fine structure](#)
[constant physics g0](#)
[constant physics lp](#)
[constant physics m electron](#)
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[constant physics nuclear magneton](#)
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CSV

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File Watcher

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File

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[file exist](#)
[file load](#)
[file count_lines](#)
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[file copy_file](#)
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[file append](#)
[file is_directory](#)
[file count_line_dir](#)
[file meta_data](#)
[file cur_canonical_dir](#)
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[file copy_dir](#)
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[file writer_add_line](#)
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[file writer_closeall](#)
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[file reader_get_line](#)
[file reader_close](#)

Atom

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[atom count](#)
[atom count_ltrim](#)
[atom distinct](#)
[atom distinct_ltrim_1sbefore](#)
[atom find_ltrim](#)
[atom get_first](#)
[atom get_last](#)
[atom get_ltrim](#)
[atom position](#)
[atom size](#)

[atom before_includ](#)
[atom count_distinct](#)
[atom count_ltrim_distinct](#)
[atom distinct_ltrim](#)
[atom find](#)
[atom get](#)
[atom get_first_ltrim](#)
[atom get_last_ltrim](#)
[atom ltrim](#)
[atom position_ltrim](#)

External REST API

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[rest https](#)

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[rest https_json_post](#)

External SOAP API

[soap http](#)
[soap https](#)

Compress

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[compress tar](#) [compress untar](#)
[compress tarGz](#) [compress untarGz](#)
[compress tarBz2](#) [compress untarBz2](#)
[compress jar](#) [compress unjar](#)
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CM

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[cm set db2](#) [cm set derby_embedded](#)
[cm set derby_server](#) [cm set firebird](#)
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[cm set postgresql](#) [cm set sqlserver](#)
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[cm remove](#)

Tunnel

tunnel connect	tunnel execute hot
tunnel execute hot cluster	tunnel execute cluster
tunnel execute	tunnel disconnect
tunnel disconnect all	mql
mql encode	

Mail

mail download pop3	mail download imap
mail send	mail process
mail process limit	mail count loaded
mail count all	mail count error
mail min error date	mail show
mail show error	mail get body
mail get error	mail replay error id
mail replay error cm	mail replay error all
mail delete error id	mail delete error cm
mail delete error all	

FTP

ftp set timeout	ftp connect
ftp set type	ftp active compression
ftp active	ftp passive
ftp cd	ftp pwd
ftp mkdir	ftp ls
ftp rename	ftp put
ftp get	ftp rm file
ftp rm dir	ftp disconnect
ftp disconnect all	

FTPS

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[ftps exec prot](#) [ftps active](#)
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[ftps cd](#) [ftps pwd](#)
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[sftp put](#) [sftp get](#)
[sftp rm](#) [sftp rm dir](#)
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[excel exist](#)

[excel sheet delete](#)

[excel sheet show](#)

[excel cell eval](#)

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[excel build_in_format](#)

[excel load empty](#)

[excel save](#)

[excel sheet add](#)

[excel sheet max_row](#)

[excel cell get](#)

[excel cell ref](#)

[excel cell format](#)

[excel close_all](#)

Excelx

[excelx load](#)

[excelx show](#)

[excelx exist](#)

[excelx sheet delete](#)

[excelx sheet show](#)

[excelx cell eval](#)

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MSWord

[msword replace](#)

MSWordx

[mswordx replace](#)

PDF

[pdf from html](#)

SCRUD

[scrud select](#)

[scrud export](#)

[scrud create](#)

[scrud parse](#)

[scrud db_to_db](#)

[scrud csv_to_db](#)

[scrud insert](#)

[scrud update](#)

[scrud merge](#)

[scrud delete](#)

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[stack delete_wait_script](#) [stack delete_closed_id](#)
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[stack delete_error_script](#) [stack reset_error_nbattempt_id](#)
[stack reset_error_nbattempt_script](#) [stack replay_error_id](#)
[stack replay_error_script](#) [stack get](#)
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Job

[job help](#) [job add job_create|insert|add](#)
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[job resume](#) [job generate update](#)
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Predictive analysis

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[pa polynomial curve fit eval incr](#) [pa xy scatter](#)
[pa xy scatter](#) [pa rl load](#)
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[pa rl exist](#) [pa rl show](#)
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[pa rl intercept](#) [pa rl predict](#)
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[pa rl count](#) [pa rl r](#)
[pa rl sum squares](#) [pa rl r square](#)
[pa rl significance](#) [pa rl slope confidence interval](#)
[pa rl slope std err](#) [pa rl sum squared errors](#)
[pa rl total sum squares](#) [pa rl x sum squares](#)
[pa rl slope confidence interval](#) [pa rl close](#)
[pa rl close all](#) [pa rm load](#)
[pa rm load from json](#) [pa rm set no intercept](#)
[pa rm calculate adjusted r squared](#) [pa rm calculate residual sum of squares](#)
[pa rm calculate r squared](#) [pa rm calculate total sum of squares](#)
[pa rm estimate error variance](#) [pa rm estimate regressand variance](#)
[pa rm estimate regression standard error](#) [pa rm estimate regression parameters variance](#)
[pa rm estimate residuals](#) [pa rm estimate regression parameters standard errors](#)
[pa rm estimate regression parameters](#) [pa rm predict](#)
[pa rm exist](#) [pa rm show](#)
[pa rm close](#) [pa rm close all](#)

Data quality

[dq algorithm show](#) [dq algorithm set](#)
[dq algorithm exist](#) [dq algorithm get](#)
[dq algorithm remove](#) [dq generate](#)
[dq analyse](#) [dq analyse show](#)

Machine Learning

[ml cluster xy scatter](#)
[ml cluster load from json](#)
[ml cluster show](#)
[ml cluster nb point](#)
[ml cluster point get](#)
[ml cluster point add](#)
[ml cluster distance](#)
[ml cluster close all](#)
[ml h node add problem](#)
[ml h node exist](#)
[ml h node show](#)
[ml h node close problem](#)
[ml h node close all](#)

[ml cluster load](#)
[ml cluster exist](#)
[ml cluster nb](#)
[ml cluster points](#)
[ml cluster point delete](#)
[ml cluster point update](#)
[ml cluster close](#)
[ml h node load from json](#)
[ml h node predict](#)
[ml h node exist problem](#)
[ml h node show problem](#)
[ml h node close](#)

Deep Learning

[dl4j csv train and save model](#)
[dl4j csv predict](#)
[dl4j exist](#)
[dl n bayesian create train file](#)
[dl n bayesian exist](#)
[dl n bayesian load](#)
[dl n bayesian delete](#)
[dl bayesian exist](#)
[dl bayesian add sentence](#)
[dl bayesian predict](#)
[dl csv execute config](#)
[dl csv predict](#)
[dl img step2 add image](#)
[dl img step4 create or load network](#)
[dl img step6 predict](#)
[dl img execute config](#)
[dl img predict](#)

[dl4j csv load model](#)
[dl4j show](#)
[dl4j delete](#)
[dl n bayesian show](#)
[dl n bayesian create model](#)
[dl n bayesian predict](#)
[dl bayesian show](#)
[dl bayesian create](#)
[dl bayesian init](#)
[dl bayesian delete](#)
[dl csv load network](#)
[dl img step1 create training](#)
[dl img step3 create hidden layer](#)
[dl img step5 train network](#)
[dl img step7 close file](#)
[dl img load network](#)

Bot

[bot show](#)
[bot remove](#)
[bot aiml set](#)
[bot aiml remove](#)

[bot create](#)
[bot exist](#)
[bot execute](#)

Language

[language create](#) [language create|insert|add](#)

[language show](#)

Symbol

[symbol create](#) [symbol create|insert|add](#)

[symbol first](#)

[symbol last](#)

[symbol show](#)

[symbol get](#)

[symbol perception](#)

[symbol show words](#)

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[symbol stimulate](#)

Word

[word create](#) [word create|insert|add](#)

[word create](#) [word create|insert|add](#)

[word exist](#)

[word first](#)

[word last](#)

[word get](#)

[word lang probability](#)

[word search](#)

[word levenshtein](#)

[word show languages](#)

[word show](#)

[word show](#)

[word perception](#)

[word perception symbol](#)

[word perception thought](#)

[word stimulate](#)

[word delete](#)

[word delete](#)

Thought

[thought create](#) [thought create|insert|add](#)

[thought show](#)

[thought show](#)

[thought first](#)

[thought last](#)

[thought get](#)

[thought merge](#)

[thought prob in words](#)

[thought show words](#)

[thought show words](#)

[thought stimulate](#)

[thought delete](#)

[thought delete by lang](#)

[thought delete by word](#)

[thought delete by word lang](#)

Relation

[relation create](#) [relation create|insert|add](#)

[relation show sentence](#)

[relation translate](#)

[relation search](#)

[relation execute](#)

[relation show thoughts](#)

[relation show thought nodes](#)

[relation stimulate](#)

[relation delete](#)

Circle

[circle merge](#)
[circle contains](#)
[circle ids](#)
[circle delete](#)

[circle exist](#)
[circle show](#)
[circle id](#)

Concentration

[concentration show](#)
[concentration depth](#)

[concentration set depth](#)

Sequence

[sequence show](#)
[sequence add sequence create|insert|add](#)
[sequence increment](#)
[sequence generate update](#)

[sequence get current](#)
[sequence exist](#)
[sequence update](#)
[sequence remove](#)

Node

[node create node create|insert|add](#)
[node delete](#)
[node show](#)
[node count](#)
[node iarray](#)
[node is array](#)
[node select](#)
[node uobject](#)
[node dobject](#)

[node exist](#)
[node iobject](#)
[node show detailed](#)
[node fields](#)
[node iarray](#)
[node is object](#)
[node uarray](#)
[node darray](#)

Transaction

[commit](#)
[transaction logs](#)
[auto commit](#)

[rollback](#)
[auto commit set](#)

File System

[fs index size](#)
[fs index calcul pos](#)
[fs index count](#)
[fs data record](#)
[fs lock size](#)
[fs unused nb block](#)

[fs data size](#)
[fs index block](#)
[fs data block](#)
[fs cache size](#)
[fs unused data block](#)
[fs unused last block](#)

Metric

metric sessions	metric index files
metric data files	metric system
metric current cpu jvm	metric current cpu system
metric current free mem	metric current free swap mem
metric current mem jvm	metric current used mem
metric current used swap mem	metric date
metric file system roots	metric java vendor
metric java version	metric system architecture
metric system name	metric system nb processor
metric system version	metric total mem
metric total swap mem	

Environment variable

env set var	concat var
env incr var	env decr var
env get var	env exist var
env del var	env show

Session

WS Session

@chat	@cmdid
@count sessions	@sessions
@sid	

DB Session

bye	cmdid
count sessions	exit
help	quit
sessions	sid
who	

Parameter

parameter add	parameter create insert add
parameter exist	parameter merge
parameter get locked_dml	parameter get value
parameter remove	get_param
parameter unlock_dml	parameter lock_dml
parameter lock_if_null	parameter show
parameter generate_merge	parameter update
	parameter generate_update

Log

log trace	log write
log show	log current id
log retention day	log remove
log archive size	log archive path
log reset	log search
log show time	

OS

os version	os arch
os name	os type
os hostname	os user timezone
os user name	os user lang
os user home	os user dir
os execute	

Server

id	ai firstname
ai lastname	name ai name
shutdown	stop
wait	version
exceeded sessions	reset exceeded sessions
@exceeded sessions	@reset exceeded sessions
src count	function count
refresh admin	refresh devel
refresh config	in editor
in clipboard	in out editor
in activity	in scatter
config reload	kill
kill process	



Back / All functions / Accelerator

- Here you can manage script and MQL accelerator.

[accelerator count mql](#)
[accelerator show](#)

[accelerator count script](#)
[accelerator reset](#)

[accelerator count](#)

accelerator count mql

Description

To count the MQL acceleration

```
admin
accelerator count mql

mentdb
210
```

accelerator count script

Description

To count the script acceleration

```
admin
accelerator count script

mentdb
210
```

accelerator count

Description

To count the number of session open

```
admin
accelerator count

mentdb
3
```

accelerator show

Description

To show the session ids

```
admin
accelerator show

mentdb
[1, 2, 3]
```

accelerator reset

Description

To reset the MQL acceleration

```
admin
accelerator reset

mentdb
1
```

App

- Here you can create new contexts for your web applications.

app create	app show
app is granted a	app is granted sa
app exist	app delete
app webserver restart	app menu
app menu show	app sajax 2 script create remote
app sajax 1 skeleton html div	app sajax 1 skeleton css container
app sajax 1 skeleton css row	app sajax 1 skeleton css col
app sajax 1 skeleton onload	app sajax 1 skeleton on click button
app sajax 1 skeleton on click event	app sajax 1 skeleton import all charts
app sajax 3 in loading button in container	app sajax 3 in loading refresh container with data
app sajax 3 in loading show alert	app sajax 3 in loading execute javascript
app sajax 3 in loading on click button	app sajax 3 in loading on click event
app sajax 3 in loading import all chart	app sajax 3 in loading form
app sajax 3 in loading form control textbox text	app sajax 3 in loading form control textbox range
app sajax 3 in loading form control textbox number	app sajax 3 in loading form control textbox mail
app sajax 3 in loading form control textbox tel	app sajax 3 in loading form control textbox time
app sajax 3 in loading form control textbox date	app sajax 3 in loading form control textbox date en
app sajax 3 in loading form control textbox datetime	app sajax 3 in loading form control textbox datetime en
app sajax 3 in loading form control textbox color	app sajax 3 in loading form control textbox password
app sajax 3 in loading form control textbox file	app sajax 3 in loading form control textarea
app sajax 3 in loading form control textarea ckeditor	app sajax 3 in loading form control select mono
app sajax 3 in loading form control select multiple	app sajax 3 in loading form control radio line
app sajax 3 in loading form control radio inline	app sajax 3 in loading form control checkbox line
app sajax 3 in loading form control checkbox inline	app sajax 3 in loading form control hidden

app create <type> <contextName> <template> <version>

Description

To create a new application

Parameters

type: The context type (http|https) -string - required

contextName: The context name -string - required

template: The template id -string - required

version: The version app to use (ex: 100) -string - required

```
admin
app create "http" "demo" "default" "100"

mentdb
Application created with successful.
```

app show <type>

Description

To show all applications into a web port

Parameters

type: The context type (http|https) -string - required

```
admin
app show "http"

mentdb
[<br> "demo"<br>]
```

app is_granted_a <tag>

Description

To check if an object is granted (administrator)

Parameters

tag: The referenced tag into the object -string - required

```
admin
app is_granted_a "demo_cm_mysql.products.list.show"

mentdb
1
```

app is_granted_sa <tag>

Description

To check if an object is granted (super administrator)

Parameters

tag: The referenced tag into the object -string - required

```
admin
app is_granted_sa "demo_cm_mysql.products.list.show"

mentdb
1
```

app exist <type> <contextName>

Description

Check if an application already exist

Parameters

type: The context type (http|https) -string - required
contextName: The context name -string - required

```
admin
app exist "http" "demo"

mentdb
1
```

app delete <type> <contextName>

Description

To delete an application

Parameters

type: The context type (http|https) -string - required
contextName: The context name -string - required

```
admin
app delete "http" "demo"

mentdb
Application deleted with successful.
```

app webserver restart

Description

To restart the web server

```
admin
app webserver restart

mentdb
1
```

app menu <jPath> <id> <title> <icon> <url> <method> <topMenu> <groups> <adminType>

Description

To add a new menu

Parameters

jPath: The jPath -string - required
id: The menu id -string - required
title: The title -string - required
icon: The fa icon -string - required
url: The url -string - required

method: The method (get|post) -string - required
topMenu: The top menu id -string - required
groups: The groups -string - required
adminType: The admin type (*-|*+) -string - required

```
admin
app menu "/menu" "home" "Home" "fa-home" "app_page=home" post "home" "menu_home" "*+";
mentdb
Use only into a WEB application ...
```

app menu show

Description

To show the menu

```
admin
app menu show
mentdb
Use only into a WEB application ...
```

_app_sajax_2_script__create_remote

Description

To create a remote valid script

```
admin
script create exe "script.var.show" false 1
(param
  (var "[OBJ_OVERWRITE_B64]" {true} "Parameters in base 64" is_null:false is_empty:false
)
  "Show all variables"
{
  json load "param" (string decode_b64 [OBJ_OVERWRITE_B64]);
  include "app.100.obj.sajax.alert.exe"
  "[type]" "ALERT_PRIMARY"
  "[strong]" "OK !"
  "[msg]" (json doc "param")
;
} "Return ...";
mentdb
html
```

_app_sajax_1_skeleton__html_div

Description

To add custom HTML

```
admin
concat_var "[page]" "<div></div>";

mentdb
html
```

_app_sajax_1_skeleton__css_container

Description

To show a Bootstrap container object

```
admin
include "app.100.obj.sajax.skeleton.container.exe" "[id]" "" "[name]" "" "[class]" "" "[st
include "app.100.obj.sajax.skeleton.div.end.exe";

mentdb
html
```

_app_sajax_1_skeleton__css_row

Description

To show a Bootstrap row object

```
admin
include "app.100.obj.sajax.skeleton.row.exe" "[id]" "" "[name]" "" "[class]" "" "[style]"
include "app.100.obj.sajax.skeleton.div.end.exe";

mentdb
html
```

_app_sajax_1_skeleton__css_col

Description

To show a Bootstrap col object

```
admin
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "container_id_1" "[name]" "" "[class]"

mentdb
html
```

_app_sajax_1_skeleton__onload

Description

To execute a MQL source code before loading the page

```
admin
include "app.100.obj.sajax.skeleton.onload.exe"
"[scriptname]" "script.var.show.exe"
"[OBJ_OVERWRITE_B64]" (string encode_b64 "{\"v1\": 1, \"v2\": 2}")
;

mentdb
html
```

_app_sajax_1_skeleton__on_click_button

Description

To get a javascript source code to execute a MQL remote script in a button

```
admin
concat_var "[page]" "<div><button onclick=" (include "app.100.obj.sajax.client.exe"
"[scriptname]" "script.var.show.exe"
"[OBJ_OVERWRITE_B64]" (string encode_b64 "{\"v1\": 1, \"v2\": 2}")
"[getElementById]" "|param1=elementById,param2=elementById,param3=elementById"
"[data]" "|$('#form1').serializeObject()|javascript which return json object..."
) ">execute me</button></div>";

mentdb
html
```

_app_sajax_1_skeleton__on_click_event

Description

To get a javascript source code to execute a MQL remote script

```
admin
onclick=" (include "app.100.obj.sajax.client.exe"
"[scriptname]" "script.var.show.exe"
"[OBJ_OVERWRITE_B64]" (string encode_b64 "{\"v1\": 1, \"v2\": 2}")
"[getElementById]" "|param1=elementById,param2=elementById,param3=elementById"
"[data]" "|$('#form1').serializeObject()|javascript which return json object..."
) ""

mentdb
html
```

_app_sajax_1_skeleton__import_all_charts

Description

To get skeleton for all charts

admin

```
include "app.100.obj.sajax.skeleton.container.exe" "[id]"" "[name]" "" "[class]" "" "[st
include "app.100.obj.sajax.skeleton.row.exe" "[id]"" "[name]" "" "[class]" "" "[style]
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "kpi" "[name]" "" "[class]" "col-6
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "progress_bar" "[name]" "" "[class]
include "app.100.obj.sajax.skeleton.div.end.exe";
include "app.100.obj.sajax.skeleton.row.exe" "[id]"" "[name]" "" "[class]" "" "[style]
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "sparkline_line" "[name]" "" "[clas
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "sparkline_bar" "[name]" "" "[class]
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "sparkline_box" "[name]" "" "[class
include "app.100.obj.sajax.skeleton.div.end.exe";
include "app.100.obj.sajax.skeleton.row.exe" "[id]"" "[name]" "" "[class]" "" "[style]
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "sparkline_tristate" "[name]" "" "[
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "sparkline_discrete" "[name]" "" "[
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "sparkline_bullet" "[name]" "" "[cl
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "sparkline_pie" "[name]" "" "[class
include "app.100.obj.sajax.skeleton.div.end.exe";
include "app.100.obj.sajax.skeleton.row.exe" "[id]"" "[name]" "" "[class]" "" "[style]
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "bar_vertical" "[name]" "" "[class]
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "bar_horizontal" "[name]" "" "[clas
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "bar_vertical_stacked" "[name]" ""
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "bar_horizontal_stacked" "[name]" "
include "app.100.obj.sajax.skeleton.div.end.exe";
include "app.100.obj.sajax.skeleton.row.exe" "[id]"" "[name]" "" "[class]" "" "[style]
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "doughnut" "[name]" "" "[class]" "c
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "pie" "[name]" "" "[class]" "col-3
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "polar" "[name]" "" "[class]" "col-
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "radar" "[name]" "" "[class]" "col-
include "app.100.obj.sajax.skeleton.div.end.exe";
include "app.100.obj.sajax.skeleton.row.exe" "[id]"" "[name]" "" "[class]" "" "[style]
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "line_basic" "[name]" "" "[class]"
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "line_basic_fill" "[name]" "" "[cla
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "line_stepped_before" "[name]" "" "
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "line_stepped_after" "[name]" "" "[
include "app.100.obj.sajax.skeleton.div.end.exe";
include "app.100.obj.sajax.skeleton.row.exe" "[id]"" "[name]" "" "[class]" "" "[style]
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "time_basic" "[name]" "" "[class]"
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "time_basic_fill" "[name]" "" "[cla
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "time_courbe" "[name]" "" "[class]"
include "app.100.obj.sajax.skeleton.col.exe" "[id]" "time_courbe_fill" "[name]" "" "[cl
include "app.100.obj.sajax.skeleton.div.end.exe";
include "app.100.obj.sajax.skeleton.div.end.exe";
```

mentdb

html

_app_sajax_3_in_loading__button_in_container**Description**

To add a button into a container

```
admin
include "app.100.obj.sajax.button.exe"
"[container_id]" "container_id_1"
"[submitTitle]" "Submit"
"[submitType]" "primary"
"[OBJ_OVERWRITE_B64]" (string encode_b64 "{}")
"[mql_script]" "app.100.template.default.actions.demo.test.exe"
"[data_eval]" ""
"[html]" "style='color:#000'"
;

mentdb
html
```

_app_sajax_3_in_loading__refresh_container_with_data

Description

To refresh a container with a HTML source code

```
admin
include "app.100.obj.sajax.refresh.exe"
"[target]" "container_id_1"
"[innerHTML]" "<div style='background-color:#313131;color:#fff'>Hello!</div>"
;

mentdb
html
```

_app_sajax_3_in_loading__show_alert

Description

To show an alert

```
admin
include "app.100.obj.sajax.alert.exe"
"[type]" "ALERT_PRIMARY|ALERT_SECONDARY|ALERT_SUCCESS|ALERT_DANGER|ALERT_WARNING|ALERT_INFORMATION"
"[strong]" "OK !"
"[msg]" "Message"
;

mentdb
html
```

_app_sajax_3_in_loading__execute_javascript

Description

To execute a javascript source code

```
admin
include "app.100.obj.sajax.javascript.exe"
"[javascript]" "alert('test');"
;

mentdb
html
```

_app_sajax_3_in_loading___on_click_button

Description

To get a javascript source code to execute a MQL remote script in a button

```
admin
include "app.100.obj.sajax.refresh.exe"
"[target]" "container_id_1"
"[innerHTML]" (concat "<button onclick=" (include "app.100.obj.sajax.client.exe"
"[scriptname]" "script.var.show.exe"
"[OBJ_OVERWRITE_B64]" (string encode_b64 "{\"v1\": 1, \"v2\": 2}")
"[getElementById]" "|param1=elementById,param2=elementById,param3=elementById"
"[data]" "|$('#form1').serializeObject()|javascript which return json object..."
) ">execute me</button>")
;

mentdb
html
```

_app_sajax_3_in_loading___on_click_event

Description

To get a javascript source code to execute a MQL remote script

```
admin
onclick=" (include "app.100.obj.sajax.client.exe"
"[scriptname]" "script.var.show.exe"
"[OBJ_OVERWRITE_B64]" (string encode_b64 "{\"v1\": 1, \"v2\": 2}")
"[getElementById]" "|param1=elementById,param2=elementById,param3=elementById"
"[data]" "|$('#form1').serializeObject()|javascript which return json object...""
) ""

mentdb
html
```

_app_sajax_3_in_loading___import_all_chart

Description

To get all charts

admin

```
include "app.100.obj.kpi.exe" "[container_id]" "kpi";
include "app.100.obj.sparkline.exe" "[container_id]" "sparkline_bar" "[type]" "bar";
include "app.100.obj.sparkline.exe" "[container_id]" "sparkline_line" "[type]" "line";
include "app.100.obj.sparkline.exe" "[container_id]" "sparkline_box" "[type]" "box";
include "app.100.obj.sparkline.exe" "[container_id]" "sparkline_tristate" "[type]" "tristate";
include "app.100.obj.sparkline.exe" "[container_id]" "sparkline_discrete" "[type]" "discrete";
include "app.100.obj.sparkline.exe" "[container_id]" "sparkline_bullet" "[type]" "bullet";
include "app.100.obj.sparkline.exe" "[container_id]" "sparkline_pie" "[type]" "pie";
include "app.100.obj.progress_bar.exe" "[container_id]" "progress_bar";
include "app.100.obj.chartjs.bar_vertical.exe" "[container_id]" "bar_vertical";
include "app.100.obj.chartjs.bar_horizontal.exe" "[container_id]" "bar_horizontal";
include "app.100.obj.chartjs.bar_vertical_stacked.exe" "[container_id]" "bar_vertical_stacked";
include "app.100.obj.chartjs.bar_horizontal_stacked.exe" "[container_id]" "bar_horizontal_stacked";
include "app.100.obj.chartjs.doughnut.exe" "[container_id]" "doughnut";
include "app.100.obj.chartjs.pie.exe" "[container_id]" "pie";
include "app.100.obj.chartjs.polar.exe" "[container_id]" "polar";
include "app.100.obj.chartjs.radar.exe" "[container_id]" "radar";
include "app.100.obj.chartjs.line_basic.exe" "[container_id]" "line_basic";
include "app.100.obj.chartjs.line_basic_fill.exe" "[container_id]" "line_basic_fill";
include "app.100.obj.chartjs.line_stepped_before.exe" "[container_id]" "line_stepped_before";
include "app.100.obj.chartjs.line_stepped_after.exe" "[container_id]" "line_stepped_after";
include "app.100.obj.chartjs.line_courbe.exe" "[container_id]" "line_courbe";
include "app.100.obj.chartjs.line_courbe_fill.exe" "[container_id]" "line_courbe_fill";
include "app.100.obj.chartjs.line_point.exe" "[container_id]" "line_point";
include "app.100.obj.chartjs.time_basic.exe" "[container_id]" "time_basic";
include "app.100.obj.chartjs.time_courbe.exe" "[container_id]" "time_courbe";
include "app.100.obj.chartjs.time_courbe_fill.exe" "[container_id]" "time_courbe_fill";
include "app.100.obj.chartjs.time_basic_fill.exe" "[container_id]" "time_basic_fill";
include "app.100.obj.gauge_meter.exe" "[container_id]" "gauge";
```

mentdb

[html](#)

_app_sajax_3_in_loading___form**Description**

To show a form

```
admin
-> "[object]"" ;
include "app.100.obj.form.begin.exe" "[form_id]" "form_1" "[modal]" true
"[action]" "index.jsp"
"[enctype]" false
"[title]" "New book"
"[subTitle]" ""
"[method]" "post"
"[widthIfModal]" "modal-lg"
"[html]" "";
```

```
include "app.100.obj.form.end.exe" "[form_id]" "form_1" "[modal]" true
"[OBJ_OVERWRITE_B64]" (string encode_b64 "{}")
"[container_id]" "container_id_1"
"[mql_script]" "script.var.show.exe"
"[data_eval]" "${('#form_1').serializeObject()}"
"[closeTitle]" "Fermer"
"[submitTitle]" "Ajouter"
"[submitType]" "primary";
```

mentdb

html

_app_sajax_3_in_loading__form_control_textbox_text

Description

To show a textbox (text type)

```
admin
include "app.100.obj.form.control.textbox.text.exe" "[control_id]" "control_1" "[class]"
"[label]" "Text" "[description]" "" "[maxlength]" "255" "[placeholder]" ""
"[readonly]" false "[required]" false "[disabled]" false "[html]" ""
"[value]" ""
;

mentdb
html
```

_app_sajax_3_in_loading__form_control_textbox_range

Description

To show a textbox (range type)

```
admin
include "app.100.obj.form.control.textbox.range.exe" "[control_id]" "control_1" "[class]"
"[label]" "Range" "[description]" ""
"[min]" 0 "[max]" 100 "[step]" 5 "[placeholder]" ""
"[readonly]" false "[required]" false "[disabled]" false "[html]" ""
"[value]" 10
;

mentdb
html
```

_app_sajax_3_in_loading____form_control_textbox_number

Description

To show a textbox (number type)

```
admin
include "app.100.obj.form.control.textbox.number.exe" "[control_id]" "control_1" "[class]"
"[label]" "Number" "[description]" "" "[maxlength]" ""
"[min]" 0 "[max]" 100 "[step]" 5 "[placeholder]" ""
"[readonly]" false "[required]" false "[disabled]" false "[html]" ""
"[value]" 10
;

mentdb
html
```

_app_sajax_3_in_loading____form_control_textbox_mail

Description

To show a textbox (mail type)

```
admin
include "app.100.obj.form.control.textbox.mail.exe" "[control_id]" "control_1" "[class]"
"[label]" "Mail" "[description]" "" "[maxlength]" "255" "[placeholder]" ""
"[readonly]" false "[required]" false "[disabled]" false "[html]" ""
"[value]" ""
;

mentdb
html
```

_app_sajax_3_in_loading____form_control_textbox_tel

Description

To show a textbox (tel type)

```
admin
include "app.100.obj.form.control.textbox.tel.exe" "[control_id]" "control_1" "[class]" "
"[label]" "Tel" "[description]" "" "[maxlength]" "255" "[placeholder]" ""
"[readonly]" false "[required]" false "[disabled]" false "[html]" ""
"[value]" ""
;

mentdb
html
```

_app_sajax_3_in_loading____form_control_textbox_time

Description

To show a textbox (time type)

```
admin
include "app.100.obj.form.control.textbox.time.exe" "[control_id]" "control_1" "[class]"
"[label]" "Time" "[description]" "" "[placeholder]" ""
"[readonly]" false "[required]" false "[disabled]" false "[html]" ""
"[value]" ""

mentdb
html
```

_app_sajax_3_in_loading__form_control_textbox_date_fr

Description

To show a textbox (date_fr type)

```
admin
include "app.100.obj.form.control.textbox.date_fr.exe" "[control_id]" "control_1" "[class"
"[label]" "Date fr" "[description]" "" "[placeholder]" ""
"[readonly]" false "[required]" false "[disabled]" false "[html]" ""
"[value]" ""

mentdb
html
```

_app_sajax_3_in_loading__form_control_textbox_date_en

Description

To show a textbox (date_en type)

```
admin
include "app.100.obj.form.control.textbox.date_en.exe" "[control_id]" "control_1" "[class"
"[label]" "Date en" "[description]" "" "[placeholder]" ""
"[readonly]" false "[required]" false "[disabled]" false "[html]" ""
"[value]" ""

mentdb
html
```

_app_sajax_3_in_loading__form_control_textbox_datetime_fr

Description

To show a textbox (datetime_fr type)

```
admin
include "app.100.obj.form.control.textbox.datetime_fr.exe" "[control_id]" "control_1" "[c
"[label]" "Datetime fr" "[description]" "" "[placeholder]" ""
"[readonly]" false "[required]" false "[disabled]" false "[html]" ""
"[value]" ""

;

mentdb
html
```

_app_sajax_3_in_loading__form_control_textbox_datetime_en

Description

To show a textbox (datetime_en type)

```
admin
include "app.100.obj.form.control.textbox.datetime_en.exe" "[control_id]" "control_1" "[c
"[label]" "Datetime en" "[description]" "" "[placeholder]" ""
"[readonly]" false "[required]" false "[disabled]" false "[html]" ""
"[value]" ""

;

mentdb
html
```

_app_sajax_3_in_loading__form_control_textbox_color

Description

To show a textbox (color type)

```
admin
include "app.100.obj.form.control.textbox.color.exe" "[control_id]" "control_1" "[class]"
"[label]" "Color" "[description]" "" "[maxlength]" "255" "[placeholder]" ""
"[readonly]" false "[required]" false "[disabled]" false "[html]" ""
"[value]" ""

;

mentdb
html
```

_app_sajax_3_in_loading__form_control_textbox_password

Description

To show a textbox (password type)

```
admin
include "app.100.obj.form.control.textbox.password.exe" "[control_id]" "control_1" "[class]"
"[label]" "Password" "[description]" "" "[maxlength]" "255" "[placeholder]" ""
"[readonly]" false "[required]" false "[disabled]" false "[html]" ""
"[value]" ""

;

mentdb
html
```

_app_sajax_3_in_loading___form_control_textbox_file

Description

To show a textbox (file type)

```
admin
include "app.100.obj.form.control.textbox.file.exe" "[control_id]" "control_1" "[class]"
"[label]" "File" "[description]" "" "[maxlength]" "255" "[placeholder]" ""
"[readonly]" false "[required]" false "[disabled]" false "[html]" ""
"[value]" ""

;

mentdb
html
```

_app_sajax_3_in_loading___form_control_textarea

Description

To show a textarea

```
admin
include "app.100.obj.form.control.textarea.exe" "[control_id]" "control_14" "[class]" "co
"[label]" "Textarea" "[description]" "" "[maxlength]" "255" "[placeholder]" ""
"[readonly]" false "[required]" false "[disabled]" false "[html]" ""
"[value]" ""

;

mentdb
html
```

_app_sajax_3_in_loading___form_control_textarea_ckeditor

Description

To show a textarea

```
admin
include "app.100.obj.form.control.textarea_cke.exe" "[control_id]" "control_14" "[class]"
"[label]" "Textarea" "[description]" "" "[maxlength]" "255" "[placeholder]" ""
"[readonly]" false "[required]" false "[disabled]" false "[html]" ""
"[value]" ""

;

mentdb
html
```

_app_sajax_3_in_loading__form_control_select_mono

Description

To show a select mono

```
admin
include "app.100.obj.form.control.select_mono.exe" "[control_id]" "control_1" "[class]"
"[label]" "Select mono" "[description]" ""
"[readonly]" false "[required]" false "[disabled]" false "[html]" ""
"[inValues]" "[]"
"[optionValues]" "[]"
"[value]" ""

;

mentdb
html
```

_app_sajax_3_in_loading__form_control_select_multiple

Description

To show a select multiple

```
admin
include "app.100.obj.form.control.select_multiple.exe" "[control_id]" "control_1" "[class]"
"[label]" "Select multiple" "[description]" ""
"[readonly]" false "[required]" false "[disabled]" false "[html]" ""
"[inValues]" "[]"
"[optionValues]" "[]"
"[values]" "{}"

;

mentdb
html
```

_app_sajax_3_in_loading__form_control_radio_line

Description

To show a radio line

```
admin
include "app.100.obj.form.control.radio_line.exe" "[control_id]" "control_1" "[class]" "[label]" "Radio line" "[description]" ""
"[readonly]" false "[required]" false "[disabled]" false "[html]" ""
"[inValues]" "[ ]"
"[optionValues]" "[ ]"
"[value]" ""

;

mentdb
html
```

_app_sajax_3_in_loading__form_control_radio_inline

Description

To show a radio inline

```
admin
include "app.100.obj.form.control.radio_inline.exe" "[control_id]" "control_1" "[class]" "[label]" "Radio inline" "[description]" ""
"[readonly]" false "[required]" false "[disabled]" false "[html]" ""
"[inValues]" "[ ]"
"[optionValues]" "[ ]"
"[value]" ""

;

mentdb
html
```

_app_sajax_3_in_loading__form_control_checkbox_line

Description

To show a checkbox line

```
admin
include "app.100.obj.form.control.checkbox_line.exe" "[control_id]" "control_1" "[class]" "[label]" "Checkbox line" "[description]" ""
"[readonly]" false "[required]" false "[disabled]" false "[html]" ""
"[inValues]" "[ ]"
"[optionValues]" "[ ]"
"[values]" "{}"

;

mentdb
html
```

_app_sajax_3_in_loading__form_control_checkbox_inline

Description

To show a checkbox inline

```
admin
include "app.100.obj.form.control.checkbox_inline.exe" "[control_id]" "control_1" "[class"
"[label]" "Checkbox inline" "[description]" ""
"[readonly]" false "[required]" false "[disabled]" false "[html]" ""
"[inValues]" "[ ]"
"[optionValues]" "[ ]"
"[values]" "{}"
;

mentdb
html
```

_app_sajax_3_in_loading__form_control_hidden

Description

To add a hidden

```
admin
include "app.100.obj.form.control.hidden.exe"
"[control_id]" "control_1"
"[value]" ""
;

mentdb
html
```

Atom

- Like all languages, you have a few data manipulation functions.

atom before_exclud	atom before_includ
atom count	atom count_distinct
atom count_ltrim	atom count_ltrim_distinct
atom distinct	atom distinct_ltrim
atom distinct_ltrim_1sbefore	atom find
atom find_ltrim	atom get
atom get_first	atom get_first_ltrim
atom get_last	atom get_last_ltrim
atom get_ltrim	atom ltrim
atom position	atom position_ltrim
atom size	

atom before_exclud <atomList> <index> <separator>

Description

get the atom list before the first occurrence of an atom in an atom list (excluded atom).

Parameters

atomList: Atom list (example A,B,C) -String - required
 index: The index atom -Number - required
 separator: List Separator (in this example ','), 1 CHAR MAX -Number - required

```
admin
atom before_exclud " A, B,A ,A ,C, D    " "3" ","
mentdb
A, B
```

atom before_includ <atomList> <index> <separator>

Description

get the atom list before the first occurrence of an atom in an atom list (included atom).

Parameters

atomList: Atom list (example A,B,C) -String - required
 index: The index atom -Number - required
 separator: List Separator (in this example ','), 1 CHAR MAX -Number - required

```
admin
atom before_includ " A, B,A ,A ,C, D    " "3" ","
mentdb
A, B,A
```

atom count <atomList> <atomToCount> <separator>

Description

count the occurrence number of an atom in an atom list.

Parameters

atomList: Atom list (example A,B,C) -String - required
atomToCount: The atom to search -String - required
separator: List Separator (in this example ','), 1 CHAR MAX -Number - required

```
admin
atom count " A, B,A ,A ,C, D    " "A" ","
mentdb
2
```

atom count_distinct <atomList> <atomToCount> <separator>

Description

count the occurrence number of a distinct atom in an atom list.

Parameters

atomList: Atom list (example A,B,C) -String - required
atomToCount: The atom to search -String - required
separator: List Separator (in this example ','), 1 CHAR MAX -Number - required

```
admin
atom count_distinct " A, B,A ,A ,C, D    " "A" ","
mentdb
1
```

atom count_ltrim <atomList> <atomToCount> <separator>

Description

count the occurrence number of a ltrim atom in an atom list.

Parameters

atomList: Atom list (example A,B,C) -String - required
atomToCount: The atom to search -String - required
separator: List Separator (in this example ','), 1 CHAR MAX -Number - required

```
admin
atom count_lrtrim " A, B,A ,A ,C, D    " "A" "", "
```

mentdb
3

atom count_lrtrim_distinct <atomList> <atomToCount> <separator>

Description

count the occurrence number of a lrtrim distinct atom in an atom list.

Parameters

atomList: Atom list (example A,B,C) -String - required
atomToCount: The atom to search -String - required
separator: List Separator (in this example ','), 1 CHAR MAX -Number - required

```
admin
atom count_lrtrim_distinct " A, B,A ,A ,C, D    " "A" "", "
```

mentdb
1

atom distinct <atomList> <separator>

Description

get distinct atom for each atom in a list

Parameters

atomList: Atom list (example A,B,C) -String - required
separator: List Separator (in this example ','), 1 CHAR MAX -Number - required

```
admin
atom distinct "A,B,A,A ,C,D" "", "
```

mentdb
A,B,A ,C,D

atom distinct_lrtrim <atomList> <separator>

Description

get lrtrim distinct atom for each atom in a list

Parameters

atomList: Atom list (example A,B,C) -String - required
separator: List Separator (in this example ','), 1 CHAR MAX -Number - required

```
admin
atom distinct_lrtrim " A, B,A ,A ,C, D    " "", "
```

mentdb
A,B,C,D

atom distinct_ltrim_1sbefore <atomList> <separator>

Description

get ltrim distinct atom for each atom in a list. add one space before all atoms, except the first.

Parameters

atomList: Atom list (example A,B,C) -String - required

separator: List Separator (in this example ','), 1 CHAR MAX -Number - required

```
admin
atom distinct_ltrim_1sbefore " A, B,A ,A ,C, D      " ", "
```



```
mentdb
A, B, C, D
```

atom find <atomList> <atomToFind> <separator>

Description

find the position of atom in an atom list.

Parameters

atomList: Atom list (example A,B,C) -String - required

atomToFind: The atom to search -String - required

separator: List Separator (in this example ','), 1 CHAR MAX -Number - required

```
admin
atom find " A, B,A ,A ,C, D      " "A" ", "
```



```
mentdb
3
```

atom find_ltrim <atomList> <atomToFind> <separator>

Description

find the position of atom in an atom list. ltrim on each atom before.

Parameters

atomList: Atom list (example A,B,C) -String - required

atomToFind: The atom to search -String - required

separator: List Separator (in this example ','), 1 CHAR MAX -Number - required

```
admin
atom find_ltrim " A, B,A ,A ,C, D      " "A" ", "
```



```
mentdb
1
```

atom get <atomList> <index> <separator>

Description

get atom at the specific index in an atom list

Parameters

atomList: Atom list (example A,B,C) -String - required

index: Position of the atom (start to 1) -Number - required

separator: List Separator (in this example ','), 1 CHAR MAX -Number - required

```
admin
atom get "A,B,C,D" 2 ","
mentdb
B
```

atom get_first <atomList> <separator>

Description

get the first atom in an atom list

Parameters

atomList: Atom list (example A,B,C) -String - required

separator: List Separator (in this example ','), 1 CHAR MAX -Number - required

```
admin
atom get_first "A, B ,C,D" ","
mentdb
A
```

atom get_first_ltrim <atomList> <separator>

Description

get the first ltrim atom in an atom list

Parameters

atomList: Atom list (example A,B,C) -String - required

separator: List Separator (in this example ','), 1 CHAR MAX -Number - required

```
admin
atom get_first_ltrim " A, B ,C,D" ","
mentdb
A
```

atom get_last <atomList> <separator>

Description

get the last atom in an atom list

Parameters

atomList: Atom list (example A,B,C) -String - required

separator: List Separator (in this example ','), 1 CHAR MAX -Number - required

```
admin
atom get_last "A, B ,C,D" ","

mentdb
D
```

atom get_last_ltrim <atomList> <separator>

Description

get the last ltrim atom in an atom list

Parameters

atomList: Atom list (example A,B,C) -String - required

separator: List Separator (in this example ','), 1 CHAR MAX -Number - required

```
admin
atom get_last_ltrim " A, B ,C, D" ","

mentdb
D
```

atom get_ltrim <atomList> <index> <separator>

Description

get ltrim atom at the specific index in an atom list

Parameters

atomList: Atom list (example A,B,C) -String - required

index: Position of the atom (start to 1) -Number - required

separator: List Separator (in this example ','), 1 CHAR MAX -Number - required

```
admin
atom get_ltrim "A, B ,C,D" 2 ","

mentdb
B
```

atom ltrim <atomList> <separator>

Description

get ltrim atom for each atom in a list

Parameters

atomList: Atom list (example A,B,C) -String - required

separator: List Separator (in this example ','), 1 CHAR MAX -Number - required

```
admin
atom ltrim " A, B,A ,A ,C, D      " " ,"

mentdb
A,B,A,A,C,D
```

atom position <atomList> <atomToFind> <separator>

Description

find the position of atom in an atom list.

Parameters

atomList: Atom list (example A,B,C) -String - required
atomToFind: The atom to search -String - required
separator: List Separator (in this example ','), 1 CHAR MAX -Number - required

```
admin
atom position " A, B,A ,A ,C, D      " "A" " ,"

mentdb
3
```

atom position_ltrim <atomList> <atomToFind> <separator>

Description

find the position of atom in an atom list. Ltrim on each atom before.

Parameters

atomList: Atom list (example A,B,C) -String - required
atomToFind: The atom to search -String - required
separator: List Separator (in this example ','), 1 CHAR MAX -Number - required

```
admin
atom position_ltrim " A, B,A ,A ,C, D      " "A" " ,"

mentdb
1
```

atom size <atomList> <separator>

Description

get size atom of an atom list (size >=1)

Parameters

atomList: Atom list (example A,B,C) -String - required
separator: List Separator (in this example ','), 1 CHAR MAX -Number - required

```
admin
```

```
atom size "A,B,C,D" "", "
```

```
mentdb
```

```
4
```

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Bot

- Bot.

[bot show](#)[bot remove](#)[bot aiml set](#)[bot aiml remove](#)[bot create](#)[bot exist](#)[bot execute](#)

bot show

Description

To show all bots.

```
admin
bot show
```

```
mentdb
["lisa"]
```

bot create <botName> <is_male> <lang>

Description

To create a new bot.

Parameters

botName: The bot name -string - required

is_male: Is male -string - required

lang: The language (fr|en) -string - required

```
admin
bot create "bob" 1 "fr"
```

```
mentdb
1
```

bot remove <botName>

Description

To remove a bot.

Parameters

botName: The bot name -string - required

```
admin
```

```
bot remove "bob"
```

```
mentdb
```

```
1
```

bot exist <botName>

Description

To check if a bot already exist.

Parameters

botName: The bot name -string - required

```
admin
```

```
bot exist "bob"
```

```
mentdb
```

```
1
```

bot aiml set <botName> <filename> <xml>

Description

To set (overwrite) a new AIML file.

Parameters

botName: The bot name -string - required

filename: The AIML filename -string - required

xml: The XML file in AIML format -string - required

```

admin
bot aiml set "bob" "hello.aiml" "<?xml version=\"1.0\" encoding=\"UTF-8\"?>
<aiml>
<!-- -->
<category><pattern>BONJOUR</pattern>
<template>Salut.</template>
</category>
<category><pattern>BONJOUR JE SUIS *</pattern>
<template>Salut <star index = \"1\"/>.</template>
</category>
<category><pattern>* EST UN DEVELOPPEUR</pattern>
<template>Oui <star index = \"1\"/> est un développeur.</template>
</category>
<category>
  <pattern>TU CONNAIS *</pattern>

  <template>
    <srai><star/> EST UN DEVELOPPEUR</srai>
  </template>

</category>
<category><pattern>QUI ES TU</pattern>
<template>concat \"Je suis '\" (name) '\".|</template>
</category>
<category><pattern>MERCI</pattern>
<template>De rien.</template>
</category>
<category><pattern>COMMENT SA VAS</pattern>
<template>Bien.</template>
</category>
</aiml>
"

```

mentdb
Loaded after 6 categories in 0.011 sec

bot execute <botName> <user> <sentence>

Description

To execute a string.

Parameters

botName: The bot name -string - required
 user: The current user -string - required
 sentence: The sentence -string - required

```

admin
bot execute "bob" "admin" "how are you ?"

mentdb
I'm fine.

```

bot aiml remove <botName> <filename>

Description

To set (overwrite) a new AIML file.

Parameters

botName: The bot name -string - required
filename: The AIML filename -string - required

```
admin
bot aiml remove "bob" "hello.aiml"

mentdb
1
```

[Home](#) > [MQL Functions](#)

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CIFS

- All remote protocols.

cifs mkdir	cifs rm
cifs ls	cifs rename
cifs get	cifs put

cifs mkdir <remoteDir> <jsonObject>

Description

Create a remote directory.

Parameters

remoteDir: The remote dir -string - required
jsonObject: The json object information -string - required

```
admin
cifs mkdir "remoteDir" {cm get "demo_cm_cifs";}

mentdb
1
```

cifs rm <remoteFileDir> <jsonObject>

Description

Delete a remote file or directory.

Parameters

remoteFileDir: The remote file or directory -string - required
jsonObject: The json object information -string - required

```
admin
cifs rm "file.txt" {cm get "demo_cm_cifs";}

mentdb
1
```

cifs ls <remoteDir> <jsonObject>

Description

Show a remote directory.

Parameters

remoteDir: The remote dir -string - required
jsonObject: The json object information -string - required

```
admin
cifs ls "sharedFolder" {cm get "demo_cm_cifs";}

mentdb
[]
```

cifs rename <remoteFileDir> <newName> <jsonObject>

Description

Rename a remote file or directory.

Parameters

remoteFileDir: The remote file or directory -string - required
newName: The new name -string - required
jsonObject: The json object information -string - required

```
admin
cifs rename "file1.txt" "file2.txt" {cm get "demo_cm_cifs";}

mentdb
1
```

cifs get <remoteFile> <localFile> <jsonObject>

Description

Download a file.

Parameters

remoteFile: The remote file -string - required
localFile: The local file path -string - required
jsonObject: The json object information -string - required

```
admin
cifs get "file1.txt" "/Users/user/Desktop/file2.txt" {cm get "demo_cm_cifs";}

mentdb
1
```

cifs put <localFile> <remoteFile> <jsonObject>

Description

Upload a file.

Parameters

localFile: The local file path -string - required
remoteFile: The remote file -string - required
jsonObject: The json object information -string - required

```
admin
cifs put "/Users/user/Desktop/file1.txt" "file2.txt" {cm get "demo_cm_cifs";}

mentdb
1
```

[Home](#) > [MQL Functions](#)

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Circle

- Here you can add a relation into a circle of relations.
- All relations in a circle have the same meaning (with the same or different languages).
- Warning: All relations within a circle must be combined together.
- Warning: Position blocks are separate with a space (and each block separate with |).

circle merge	circle exist
circle contains	circle show
circle ids	circle id
circle delete	

circle merge <level> <thoughtId1> <thoughtId2>

Description

To merge two circles.

Parameters

level: The level (ex: th|r) -string - required
thoughtId1: The MAIN thought id -string - required
thoughtId2: The thought id -string - required

```
admin
circle merge "r" RL[4] RL[5]

mentdb
CI[0]
```

circle exist <level> <relationIdToFind>

Description

To check if a link already exists into a circle

Parameters

level: The level (ex: th|r) -string - required
relationIdToFind: The relation id to find -string - required

```
admin
circle exist "r" [R1]

mentdb
1
```

circle contains <level> <relationId> <relationIdToFind>

Description

To chek if a circle contains a relation

Parameters

level: The level (ex: th|r) -string - required

relationId: The relation id -string - required

relationIdToFind: The relation id to find -string - required

```
admin
circle contains "r" [R1] [R2]
```

```
mentdb
1
```

circle show <level> <relationId>

Description

To show all relations from a circle

Parameters

level: The level (ex: th|r) -string - required

relationId: The relation id -string - required

```
admin
circle show "r" [R1]
```

```
mentdb
{<br>  "en RL[4z] RL[50]": "1 2 3 3",<br>  "en RL[50] RL[4z]": "1 2 3|4"<br>}
```

circle ids <level> <lang> <relationId>

Description

To show all relations ids from a circle

Parameters

level: The level (ex: th|r) -string - required

lang: The prefered language (ex: fr|en) -string - not required

relationId: The relation id -string - required

```
admin
circle ids "r" [R1]
```

```
mentdb
[<br>  "RL[4z]",<br>  "RL[50]"<br>]
```

circle id <level> <lang> <relationId>

Description

To get a relation id from a circle

Parameters

level: The level (ex: th|r) -string - required
lang: The prefered language (ex: fr|en) -string - required
relationId: The relation id -string - required

```
admin
circle id "r" fr [R1]

mentdb
RL[4z]
```

circle delete <level> <relationIdToDelete>

Description

To delete all links by relation from circle

Parameters

level: The level (ex: th|r) -string - required
relationIdToDelete: The relation id to delete -string - required

```
admin
circle delete "r" [R1]

mentdb
The relation is out of the circle.
```

```
admin
circle show "r" [R2]

mentdb
{}
```

```
admin
circle show "r" [R1]

mentdb
{}
```

Cluster

- Execute MQL scripts through a cluster of MentDB server.

cluster show	cluster create
cluster exist	cluster delete
cluster signal process	cluster signal deploy
cluster signal set	cluster signal delete
cluster signal show	cluster signal remote show
cluster signal give	cluster node set
cluster nodes show obj	cluster nodes show txt
cluster node delete	cluster node expels
cluster execute hot	cluster execute
cluster node reinstate	cluster node generate set
cluster node	

cluster show

Description

To show all clusters

```
admin
cluster show;

mentdb
[
  "cluster_id_2",
  "cluster_id_1"
]
```

cluster create <clusterId>

Description

To create a new cluster

Parameters

clusterId: The cluster id -string - required

```
admin
cluster create "cluster_id_1";

mentdb
Cluster created with successful.
```

cluster exist <clusterId>

Description

To check if a cluster already exist

Parameters

clusterId: The cluster id -string - required

```
admin
cluster exist "cluster_id_1";

mentdb
1
```

cluster delete <clusterId>

Description

To delete a cluster

Parameters

clusterId: The cluster id -string - required

```
admin
cluster delete "cluster_id_2";

mentdb
Cluster deleted with successful.
```

cluster signal process

Description

To send signals to agents

```
admin
signal process;

mentdb
1
```

cluster signal deploy <clusterId> <hostname> <port> <user> <user_key> <password> <connectTimeout> <readTimeout> <mql_signal>

Description

To deploy all signals to all nodes

Parameters

clusterId: The cluster id -string - required

hostname: The hostname -string - required

port: The port -string - required

```
user: The user -string - required
user_key: The user key -string - required
password: The password -string - required
connectTimeout: Connect timeout -string - required
readTimeout: Read timeout -string - required
mql_signal: MQL signal (return a number) -string - required
```

```
admin
signal deploy "cluster_id_1" "localhost" "9998" "admin" "pwd" "pwd" 10000 30000 "metric cu
mentdb
ok/set/cluster_id_1/node_id_3
ok/set/cluster_id_1/node_id_4
ok/set/cluster_id_1/node_id_1
ok/set/cluster_id_1/node_id_2
```

cluster signal set <clusterId> <nodeld> <hostname> <port> <user> <user_key> <password>
<connectTimeout> <readTimeout> <mql_signal>

Description

To set a new signal into a node

Parameters

```
clusterId: The cluster id -string - required
nodeId: The node id -string - required
hostname: The hostname -string - required
port: The port -string - required
user: The user -string - required
user_key: The user key -string - required
password: The password -string - required
connectTimeout: Connect timeout -string - required
readTimeout: Read timeout -string - required
mql_signal: MQL signal (return a number) -string - required
```

```
admin
cluster signal set "cluster_id_1" "node_id_1" "localhost" "9998" "admin" "pwd" "pwd" 10000 30000 "metric cu
mentdb
Signal added/updated with successful.
```

cluster signal delete <clusterId> <nodeld>

Description

To delete a signal from a node

Parameters

```
clusterId: The cluster id -string - required
nodeId: The node id -string - required
```

```
admin
cluster signal delete "cluster_id_1" "node_id_1"

mentdb
Signal deleted with successful.
```

cluster signal show <clusterId>

Description

To show all signals from a node for a specific cluster

Parameters

clusterId: The cluster id -string - required

```
admin
cluster signal show "cluster_id_1"

mentdb
CLUSTER_ID / NODE_ID / USER@HOSTNAME:PORT / CONNECT_TIMEOUT / READ_TIMEOUT / MQL_SIGNAL / :
cluster_id_1 / node_id_3 / admin@localhost:9998 / 10000 / 30000 / metric current cpu jvm;
cluster_id_1 / node_id_4 / admin@localhost:9998 / 10000 / 30000 / metric current cpu jvm;
cluster_id_1 / node_id_1 / admin@localhost:9998 / 10000 / 30000 / metric current cpu jvm;
cluster_id_1 / node_id_2 / admin@localhost:9998 / 10000 / 30000 / metric current cpu jvm;
```

cluster signal remote_show <clusterId>

Description

To show all remote signals from a node for a specific cluster

Parameters

clusterId: The cluster id -string - required

```
admin
signal remote_show "cluster_id_1"

mentdb
ok/CLUSTER_ID / NODE_ID / USER@HOSTNAME:PORT / CONNECT_TIMEOUT / READ_TIMEOUT / MQL_SIGNAL
cluster_id_1 / node_id_3 / admin@localhost:9998 / 10000 / 30000 / metric current cpu jvm;
cluster_id_1 / node_id_4 / admin@localhost:9998 / 10000 / 30000 / metric current cpu jvm;
cluster_id_1 / node_id_1 / admin@localhost:9998 / 10000 / 30000 / metric current cpu jvm;
cluster_id_1 / node_id_2 / admin@localhost:9998 / 10000 / 30000 / metric current cpu jvm;
ok/CLUSTER_ID / NODE_ID / USER@HOSTNAME:PORT / CONNECT_TIMEOUT / READ_TIMEOUT / MQL_SIGNAL
cluster_id_1 / node_id_3 / admin@localhost:9998 / 10000 / 30000 / metric current cpu jvm;
cluster_id_1 / node_id_4 / admin@localhost:9998 / 10000 / 30000 / metric current cpu jvm;
cluster_id_1 / node_id_1 / admin@localhost:9998 / 10000 / 30000 / metric current cpu jvm;
cluster_id_1 / node_id_2 / admin@localhost:9998 / 10000 / 30000 / metric current cpu jvm;
ok/CLUSTER_ID / NODE_ID / USER@HOSTNAME:PORT / CONNECT_TIMEOUT / READ_TIMEOUT / MQL_SIGNAL
cluster_id_1 / node_id_3 / admin@localhost:9998 / 10000 / 30000 / metric current cpu jvm;
cluster_id_1 / node_id_4 / admin@localhost:9998 / 10000 / 30000 / metric current cpu jvm;
cluster_id_1 / node_id_1 / admin@localhost:9998 / 10000 / 30000 / metric current cpu jvm;
cluster_id_1 / node_id_2 / admin@localhost:9998 / 10000 / 30000 / metric current cpu jvm;
ok/CLUSTER_ID / NODE_ID / USER@HOSTNAME:PORT / CONNECT_TIMEOUT / READ_TIMEOUT / MQL_SIGNAL
cluster_id_1 / node_id_3 / admin@localhost:9998 / 10000 / 30000 / metric current cpu jvm;
cluster_id_1 / node_id_4 / admin@localhost:9998 / 10000 / 30000 / metric current cpu jvm;
cluster_id_1 / node_id_1 / admin@localhost:9998 / 10000 / 30000 / metric current cpu jvm;
cluster_id_1 / node_id_2 / admin@localhost:9998 / 10000 / 30000 / metric current cpu jvm;
```

cluster signal give <clusterId> <nodeld> <signal> <current_time>

Description

To give a signal to an agent

Parameters

clusterId: The cluster id -string - required
nodeId: The node id -string - required
signal: The signal (a number) -number - required
current_time: The current time -string - required

```
admin
cluster signal give "cluster_id_1" "node_id_1" 52 "2019-06-18 10:21:56"

mentdb
1
```

cluster node set <clusterId> <nodeld> <hostname> <port> <user> <user_key> <password> <connectTimeout> <readTimeout> <active_signal>

Description

To set a new node into a cluster

Parameters

clusterId: The cluster id -string - required
nodeId: The node id -string - required
hostname: The hostname -string - required
port: The port -string - required
user: The user -string - required
user_key: The user key -string - required

```
password: The password -string - required
connectTimeout: Connect timeout -string - required
readTimeout: Read timeout -string - required
active_signal: Is an auto active signal node -boolean - required
```

```
admin
cluster node set "cluster_id_1" "node_id_1" "localhost" "9998" "admin" "pwd" "pwd" 10000 3
cluster node set "cluster_id_1" "node_id_2" "localhost" "9998" "admin" "pwd" "pwd" 10000 3
cluster node set "cluster_id_1" "node_id_3" "localhost" "9998" "admin" "pwd" "pwd" 10000 3
cluster node set "cluster_id_1" "node_id_4" "localhost" "9998" "admin" "pwd" "pwd" 10000 3

mentdb
Node added/updated with successful.
```

cluster nodes show_obj <clusterId>

Description

To show all nodes from a cluster in an array format

Parameters

clusterId: The cluster id -string - required

```
admin
cluster nodes show_obj "cluster_id_1"

mentdb
{
  "node_id_3": {
    "in_the_cluster": "1",
    "active_signal": "1",
    "signal_last_time": "2019-06-30 09:35:45",
    "user_key": "pwd",
    "error": "",
    "cluster_id": "cluster_id_1",
    "hostname": "localhost",
    "password": "pwd",
    "port": "9998",
    "readTimeout": "30000",
    "connectTimeout": "10000",
    "signal": "0.2",
    "user": "admin",
    "node_id": "node_id_3"
  },
  "node_id_4": {
    "in_the_cluster": "1",
    "active_signal": "1",
    "signal_last_time": "2019-06-30 09:35:45",
    "user_key": "pwd",
    "error": "",
    "cluster_id": "cluster_id_1",
    "hostname": "localhost",
    "password": "pwd",
    "port": "9998",
    "readTimeout": "30000",
    "connectTimeout": "10000",
    "signal": "35.1",
    "user": "admin",
    "node_id": "node_id_4"
  },
  "node_id_1": {
    "in_the_cluster": "1",
    "active signal": "1".
```

```

----- ,
"signal_last_time": "2019-06-30 09:35:45",
"user_key": "pwd",
"error": "",
"cluster_id": "cluster_id_1",
"hostname": "localhost",
"password": "pwd",
"port": "9998",
"readTimeout": "30000",
"connectTimeout": "10000",
"signal": "57.0",
"user": "admin",
"node_id": "node_id_1"
},
"node_id_2": {
"in_the_cluster": "1",
"active_signal": "1",
"signal_last_time": "2019-06-30 09:35:45",
"user_key": "pwd",
"error": "",
"cluster_id": "cluster_id_1",
"hostname": "localhost",
"password": "pwd",
"port": "9998",
"readTimeout": "30000",
"connectTimeout": "10000",
"signal": "57.5",
"user": "admin",
"node_id": "node_id_2"
}
}
}

```

cluster nodes show_txt <clusterId>

Description

To show all nodes from a cluster in text format

Parameters

clusterId: The cluster id -string - required

```

admin
cluster nodes show_txt "cluster_id_1"

mentdb
IN_THE_CLUSTER / ACTIVE_SIGNAL / CLUSTER_ID / NODE_ID / USER@HOSTNAME:PORT / CONNECT_TIMEOUT
1 / 0 / cluster_id_1 / node_id_3 / admin@localhost:9998 / 10000 / 30000 / 0.2 / 2019-07-01
1 / 0 / cluster_id_1 / node_id_4 / admin@localhost:9998 / 10000 / 30000 / 35.0 / 2019-07-01
1 / 0 / cluster_id_1 / node_id_1 / admin@localhost:9998 / 10000 / 30000 / 58.8 / 2019-07-01
1 / 0 / cluster_id_1 / node_id_2 / admin@localhost:9998 / 10000 / 30000 / 57.0 / 2019-07-01

```

cluster node delete <clusterId> <nodeld>

Description

To delete a node from a cluster

Parameters

clusterId: The cluster id -string - required

nodeld: The node id -string - required

```
admin
cluster node delete "cluster_id_1" "node_id_1"

mentdb
Node deleted with successful.
```

cluster node expels <clusterId> <nodeld> <error>

Description

To expels a node from a cluster

Parameters

clusterId: The cluster id -string - required
nodeld: The node id -string - required
error: The error message -string - required

```
admin
cluster node expels "cluster_id_1" "node_id_1" "error message ..."

mentdb
1
```

cluster execute_hot

Description

Execute a MQL command in hot throught a cluster.

```
admin
-> "[local_var1]" "data1";
-> "[local_var2]" "data2";
include "cluster.1n.hot.exe"
"[cluster_id]" "cluster_id_1"
"[method]" "LB_50_50|SIGNAL"
"[tunnel_id]" "tunnel_id_1"
"[request]" (concat
"-> \"[remote_var1]\\" " (mql encode [local_var1]) \";"
"-> \"[remote_var2]\\" " (mql encode [local_var2]) \";"
(mql {
  concat [remote_var1] ":" [remote_var2]
})
)
;

mentdb
data1:data2
```

cluster execute

Description

Execute a MQL command throught a cluster.

```
admin
-> "[local_var1]" "data1";
-> "[local_var2]" "data2";
execute "cluster.ln.exe"
"[cluster_id]" "cluster_id_1"
"[method]" "LB_50_50|SIGNAL"
"[request]" (concat
"-> \"[remote_var1]\\" " (mql encode [local_var1]) \";"
"-> \"[remote_var2]\\" " (mql encode [local_var2]) \";"
(mql {
concat [remote_var1] ":" [remote_var2]
})
)
;
mentdb
data1:data2
```

cluster node reinstate <clusterId> <nodeld>

Description

To reinstate a node from a cluster

Parameters

clusterId: The cluster id -string - required

nodeId: The node id -string - required

```
admin
cluster node reinstate "cluster_id_1" "node_id_1"

mentdb
1
```

cluster node generate_set <clusterId>

Description

To generate a set MQL code for set a node into a cluster

Parameters

clusterId: The cluster id -string - required

```
admin
in editor {cluster node generate_set "cluster_id_1"};

mentdb
cluster node set "cluster_id_1" "node_id_3" "localhost" "9998" "admin" "pwd" "pwd" 10000 3
cluster node set "cluster_id_1" "node_id_4" "localhost" "9998" "admin" "pwd" "pwd" 10000 3
cluster node set "cluster_id_1" "node_id_1" "localhost" "9998" "admin" "pwd" "pwd" 10000 3
cluster node set "cluster_id_1" "node_id_2" "localhost" "9998" "admin" "pwd" "pwd" 10000 3
```

cluster node <clusterId> <method>

Description

To get a cluster node

Parameters

clusterId: The cluster id -string - required

method: The method (LB_50_50|SIGNAL) -string - required

```
admin
cluster node "cluster_id_1" "LB_50_50"

mentdb
{
  "subTunnels": "[MQL_TO_REPLACE]",
  "hostname": "localhost",
  "password": "pwd",
  "cluster_id": "cluster_id_1",
  "port": "9998",
  "readTimeout": "30000",
  "connectTimeout": "10000",
  "type": "mentdb",
  "user": "admin",
  "cluster_method": "lb_50_50",
  "key": "pwd",
  "node_id": "node_id_3"
}
```

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CM

- Here you can manage connections.

cm set mentdb	cm set as400
cm set db2	cm set derby_embedded
cm set derby_server	cm set firebird
cm set h2_embedded	cm set h2_server
cm set hsql_embedded	cm set hsql_server
cm set mysql	cm set oracle
cm set postgresql	cm set sqlserver
cm set file	cm set ftp
cm set ftps	cm set sftp
cm set ssh	cm set cifs
cm set smtp	cm set pop3
cm set imap	cm show
cm show_obj	cm get
cm generate_update	cm exist
cm remove	

cm set mentdb <key> <object>

Description

Set a connection

Parameters

key: The key - string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_mentdb" {execute "mentdb.remote.config.get"
  "[hostname]" "localhost"
  "[port]" "9998"
  "[key]" "pwd"
  "[user]" "admin"
  "[password]" "pwd"
  "[connectTimeout]" "10000"
  "[readTimeout]" "30000"
  "[subTunnels]" (mql {
    tunnel execute_hot "tunnelId1" {cm get "demo_cm_mentdb";} (mql {
      tunnel execute_hot "tunnelId2" {cm get "demo_cm_mentdb";} (mql {
        [MQL_TO_REPLACE]
      });
    });
  });
};

mentdb
1
```

cm set as400 <key> <object>

Description

Set a connection

Parameters

key: The key -string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_as400" {execute "db.as400.config.get"
  "[hostname]" "localhost"
  "[port]" "8471"
  "[database]" "test_db"
  "[user]" "bob"
  "[password]" "pwd"
}

mentdb
1
```

cm set db2 <key> <object>

Description

Set a connection

Parameters

key: The key -string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_db2" {execute "db.db2.config.get"
  "[hostname]" "localhost"
  "[port]" "50000"
  "[database]" "test_db"
  "[user]" "db2admin"
  "[password]" "pwd"
}

mentdb
1
```

cm set derby_embedded <key> <object>

Description

Set a connection

Parameters

key: The key -string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_derby_embedded" {execute "db.derby.embedded.config.get"
  "[database]" "test_db"
  "[user]" "sa"
  "[password]" "sa"
}

mentdb
1
```

cm set derby_server <key> <object>

Description

Set a connection

Parameters

key: The key -string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_derby_server" {execute "db.derby.server.config.get"
  "[hostname]" "localhost, 127.0.0.1"
  "[port]" "1527"
  "[database]" "test_db"
  "[user]" "sa"
  "[password]" "sa"
}

mentdb
1
```

cm set firebird <key> <object>

Description

Set a connection

Parameters

key: The key - string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_firebird" {execute "db.firebird.config.get"
  "[hostname]" "localhost"
  "[port]" "3050"
  "[database]" "test_db"
  "[user]" "SYSDBA"
  "[password]" "masterkey"
}

mentdb
1
```

cm set h2_embedded <key> <object>

Description

Set a connection

Parameters

key: The key - string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_h2_embedded" {execute "db.h2.embedded.config.get"
  "[database]" "dir/test_db"
  "[user]" "sa"
  "[password]" "sa"
}

mentdb
1
```

cm set h2_server <key> <object>

Description

Set a connection

Parameters

key: The key - string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_h2_server" {execute "db.h2.server.config.get"
  "[hostname]" "localhost, 127.0.0.1"
  "[port]" "9091"
  "[database]" "test_db"
  "[user]" "sa"
  "[password]" "sa"
;}

mentdb
1
```

cm set hsql_embedded <key> <object>

Description

Set a connection

Parameters

key: The key -string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_hsql_embedded" {execute "db.hsql.embedded.config.get"
  "[database]" "test_db"
  "[user]" "SA"
  "[password]" "SA"
;}

mentdb
1
```

cm set hsql_server <key> <object>

Description

Set a connection

Parameters

key: The key -string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_hsql_server" {execute "db.hsql.server.config.get"
  "[hostname]" "localhost, 127.0.0.1"
  "[port]" "9001"
  "[database]" "test_db"
  "[user]" "SA"
  "[password]" "SA"
;}

mentdb
1
```

cm set mysql <key> <object>

Description

Set a connection

Parameters

key: The key -string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_mysql" {execute "db.mysql.config.get"
  "[hostname]" "localhost"
  "[port]" "3306"
  "[database]" "test_db"
  "[user]" "bob"
  "[password]" "pwd"
}

mentdb
1
```

cm set oracle <key> <object>

Description

Set a connection

Parameters

key: The key -string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_oracle" {execute "db.oracle.config.get"
  "[hostname]" "localhost"
  "[port]" "1521"
  "[database]" "xe"
  "[user]" "sys"
  "[password]" "pwd"
}

mentdb
1
```

cm set postgresql <key> <object>

Description

Set a connection

Parameters

key: The key -string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_postgresql" {execute "db.postgresql.config.get"
  "[hostname]" "localhost"
  "[port]" "5432"
  "[database]" "test_db"
  "[user]" "postgres"
  "[password]" "pwd"
}

mentdb
1
```

cm set sqlserver <key> <object>

Description

Set a connection

Parameters

key: The key -string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_sqlserver" {execute "db.sqlserver.config.get"
  "[hostname]" "localhost"
  "[port]" "1195"
  "[user]" "sa"
  "[password]" "pwd"
}

mentdb
1
```

cm set file <key> <object>

Description

Set a connection

Parameters

key: The key -string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_file" {execute "file.local.config.get"
  "[dir]" "/Users/jimmitry/Desktop"
}

mentdb
1
```

cm set ftp <key> <object>

Description

Set a connection

Parameters

key: The key - string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_ftp" {execute "file.remote.ftp.config.get"
  "[hostname]" "localhost"
  "[port]" "21"
  "[user]" "bob"
  "[password]" "pwd"
}

mentdb
1
```

cm set ftps <key> <object>

Description

Set a connection

Parameters

key: The key - string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_ftps" {execute "file.remote.ftps.config.get"
  "[hostname]" "localhost"
  "[port]" "21"
  "[user]" "bob"
  "[password]" "pwd"
  "[protocol]" "TLS"
  "[isImplicit]" false
  "[connectTimeout]" 10000
  "[dataTimeout]" 30000
  "[keepAliveTimeout]" 300
}

mentdb
1
```

cm set sftp <key> <object>

Description

Set a connection

Parameters

key: The key - string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_sftp" {execute "file.remote.sftp.config.get"
  "[hostname]" "localhost"
  "[port]" "22"
  "[user]" "bob"
  "[password]" "pwd"
  "[connectTimeout]" 10000
  "[dataTimeout]" 30000
; }

mentdb
1
```

cm set ssh <key> <object>

Description

Set a connection

Parameters

key: The key -string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_ssh" {execute "file.remote.ssh.config.get"
  "[hostname]" "localhost"
  "[port]" "22"
  "[user]" "bob"
  "[password]" "pwd"
  "[connectTimeout]" 10000
; }

mentdb
1
```

cm set cifs <key> <object>

Description

Set a connection

Parameters

key: The key -string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_cifs" {execute "file.remote.cifs.config.get"
  "[hostname]" "192.168.220.130"
  "[port]" "445"
  "[domain]" "domain"
  "[user]" "bob"
  "[password]" "pwd"
  "[connectTimeout]" "10000"
  "[readTimeout]" "30000"
; }

mentdb
1
```

cm set smtp <key> <object>

Description

Set a connection

Parameters

key: The key -string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_smtp" {execute "mail.smtp.config.get"
  "[hostname]" "smtp.gmail.com"
  "[port]" "465"
  "[sender]" "your-account@gmail.com"
  "[user]" "your-account@gmail.com"
  "[password]" "pwd"
  "[authentication]" true
  "[tls]" true
  "[connectTimeout]" "10000"
  "[sessionTimeout]" "60000"
}

mentdb
1
```

cm set pop3 <key> <object>

Description

Set a connection

Parameters

key: The key -string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_pop3" {execute "mail.pop3.config.get"
  "[hostname]" "pop.gmail.com"
  "[port]" "995"
  "[user]" "your-account@gmail.com"
  "[password]" "pwd"
  "[tls]" false
  "[ssl]" true
  "[connectTimeout]" "10000"
  "[sessionTimeout]" "60000"
}

mentdb
1
```

cm set imap <key> <object>

Description

Set a connection

Parameters

key: The key -string - required
object: The JSON object -string - required

```
admin
cm set "demo_cm_imap" {execute "mail imap config get"
  "[hostname]" "imap.gmail.com"
  "[port]" "993"
  "[user]" "your-account@gmail.com"
  "[password]" "pwd"
  "[auth]" false
  "[tls]" false
  "[ssl]" true
  "[connectTimeout]" "10000"
  "[sessionTimeout]" "60000"
}

mentdb
1
```

cm show <type>

Description

Show all connections

Parameters

type: The connection type (db|file|cifs|ftp|ftps|sftp|ssh|imap|pop3|smtp|mentdb) -string - not required

```
admin
cm show

mentdb
[<br>  "demo_cm_as400",<br>  "demo_cm_cifs",<br>  "demo_cm_db2",<br>  "demo_cm_derby_embedded",
[<br>  "demo_cm_file",<br>  "demo_cm_imap",<br>  "demo_cm_pop3",<br>  "demo_cm_smtp"]]
```

cm show_obj <type>

Description

Show all connections into a JSON object

Parameters

type: The connection type (db|file|cifs|ftp|ftps|sftp|ssh|imap|pop3|smtp|mentdb) -string - not required

```
admin
cm show_obj

mentdb
{"demo_cm_as400":0,<br>  "demo_cm_cifs":0,<br>  "demo_cm_db2":0,<br>  "demo_cm_derby_embedded":0,
[<br>  "demo_cm_file":0,<br>  "demo_cm_imap":0,<br>  "demo_cm_pop3":0,<br>  "demo_cm_smtp":0]}
```

cm get <key>

Description

Get a connection

Parameters

key: The key -string - required

```
admin
cm get "demo_cm_mysql"

mentdb
{<br> "driver": "com.mysql.jdbc.Driver",<br> "defaultSchema": "test_db",<br> "subType":
```

cm generate_update <key>

Description

Update a connection

Parameters

key: The key -string - required

```
admin
cm generate_update "demo_cm_mysql"

mentdb
json load "tmpCm" (cm get "demo_cm_mysql");<br>json uobject "tmpCm" / "driver" "com.mysql.
```

cm exist <key> <type>

Description

Check if a connection id already exist

Parameters

key: The key -string - required

type: The connection type (db|file|cifs|ftp|ftps|sftp|ssh|imap|pop3|smtp|mentdb) -string - not required

```
admin
cm exist "demo_cm_mysql"

mentdb
1
```

cm remove <key>

Description

Remove a connection

Parameters

key: The key -string - required

```
admin
cm remove "demo_cm_mysql"
```

```
mentdb
1
```

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Compress

- Like all languages, you have a few data manipulation functions.

[compress zip](#)
[compress tar](#)
[compress tarGz](#)
[compress tarBz2](#)
[compress jar](#)
[compress gz](#)
[compress bz2](#)

[compress unzip](#)
[compress untar](#)
[compress untarGz](#)
[compress untarBz2](#)
[compress unjar](#)
[compress ungz](#)
[compress unbz2](#)

compress zip <in> <out>

Description

Compress into ZIP format

Parameters

in: The path to in file -String - required
out: The path to the out file -String - required

```
admin
compress zip "archives/logs/cur_log.sql" "archives/logs/cur_log.sql.zip"

mentdb
1
```

compress unzip <in> <dir>

Description

Uncompress from ZIP format

Parameters

in: The path to in file -String - required
dir: The path to the directory -String - required

```
admin
compress unzip "archives/logs/cur_log.sql.zip" "archives/logs"

mentdb
1
```

compress tar <in> <out>

Description

Compress into TAR format

Parameters

in: The path to in file -String - required
out: The path to the out file -String - required

```
admin
compress tar "archives/logs/cur_log.sql" "archives/logs/cur_log.sql.tar"

mentdb
1
```

compress untar <in> <dir>

Description

Uncompress from TAR format

Parameters

in: The path to in file -String - required
dir: The path to the directory -String - required

```
admin
compress untar "archives/logs/cur_log.sql.tar" "archives/logs"

mentdb
1
```

compress tarGz <in> <out>

Description

Compress into TAR GZ format

Parameters

in: The path to in file -String - required
out: The path to the out file -String - required

```
admin
compress tarGz "archives/logs/cur_log.sql" "archives/logs/cur_log.sql.tar.gz"

mentdb
1
```

compress untarGz <in> <dir>

Description

Uncompress from TAR.GZ format

Parameters

in: The path to in file -String - required

dir: The path to the directory -String - required

```
admin
compress untarGz "archives/logs/cur_log.sql.tar.gz" "archives/logs"
mentdb
1
```

compress tarBz2 <in> <out>

Description

Compress into TAR BZ2 format

Parameters

in: The path to in file -String - required

out: The path to the out file -String - required

```
admin
compress tarBz2 "archives/logs/cur_log.sql" "archives/logs/cur_log.sql.tar.bz2"
mentdb
1
```

compress untarBz2 <in> <dir>

Description

Uncompress from TAR.BZ2 format

Parameters

in: The path to in file -String - required

dir: The path to the directory -String - required

```
admin
compress untarBz2 "archives/logs/cur_log.sql.tar.bz2" "archives/logs"
mentdb
1
```

compress jar <in> <out>

Description

Compress into JAR format

Parameters

in: The path to in file -String - required

out: The path to the out file -String - required

```
admin
compress jar "archives/logs/cur_log.sql" "archives/logs/cur_log.sql.jar"

mentdb
1
```

compress unjar <in> <dir>

Description

Uncompress from JAR format

Parameters

in: The path to in file -String - required
dir: The path to the directory -String - required

```
admin
compress unjar "archives/logs/cur_log.sql.jar" "archives/logs"

mentdb
1
```

compress gz <inFile> <outFile>

Description

Compress into GZIP format

Parameters

inFile: The path to in file -String - required
outFile: The path to the out file -String - required

```
admin
compress gz "archives/logs/cur_log.sql" "archives/logs/cur_log.sql.gz"

mentdb
1
```

compress ungz <inFile> <outFile>

Description

Uncompress from GZIP format

Parameters

inFile: The path to in file -String - required
outFile: The path to the file -String - required

```
admin
compress ungz "archives/logs/cur_log.sql.gz" "archives/logs/cur_log.sql"

mentdb
1
```

compress bz2 <inFile> <outFile>

Description

Compress into BZIP2 format

Parameters

inFile: The path to in file -String - required

outFile: The path to the out file -String - required

```
admin
compress bz2 "archives/logs/cur_log.sql" "archives/logs/cur_log.sql.bz2"

mentdb
1
```

compress unbz2 <inFile> <outFile>

Description

Uncompress from BZIP2 format

Parameters

inFile: The path to in file -String - required

outFile: The path to the file -String - required

```
admin
compress unbz2 "archives/logs/cur_log.sql.bz2" "archives/logs/cur_log.sql"

mentdb
1
```

Concentration

- All research is done by a degree of concentration.
- If the concentration is large, the brain will do extensive research.
- If the concentration is low, the brain will search quickly.

[concentration show](#)

[concentration set depth](#)

[concentration depth](#)

concentration show

Description

To show all the concentrations depth

```
admin
concentration show
```

```
mentdb
{<br>  "C[deep-search]": "10",<br>  "C[symbol)": "200",<br>  "C[relation]": "200",<br>  "C
```

concentration set depth <key> <depth>

Description

To set the concentration depth

Parameters

key: The concentration key -string - required

depth: The depth value -integer > 0 - required

```
admin
concentration set depth C[symbol] 200

mentdb
Concentration depth saved with successful.
```

concentration depth <key>

Description

To show the concentration depth

Parameters

key: The concentration key -string - required

admin
concentration depth C[symbol]

mentdb
200

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Constant

- Like all languages, you have a few data manipulation functions.

constant math four_pi	constant math half_pi
constant math pi	constant math pi square
constant math two_pi	constant physics a0
constant physics amu	constant physics bohr_magneton
constant physics c	constant physics c_square
constant physics e	constant physics eh
constant physics f	constant physics fine_structure
constant physics g	constant physics g0
constant physics k	constant physics lp
constant physics m_deuteron	constant physics m_electron
constant physics m_muon	constant physics m_neutron
constant physics m_proton	constant physics magn_flux_quantum
constant physics mp	constant physics n
constant physics newtonian_g	constant physics nuclear_magneton
constant physics perm_vac_electric	constant physics perm_vac_magnetic
constant physics planck	constant physics planck_over_two_pi
constant physics r	constant physics rinf
constant physics stefan_boltzmann	constant physics tp
constant physics z0	

constant math_four_pi

Description

Holds 4π .

```
admin
constant math_four_pi

mentdb
(12.5663706143591725 ± 8.9E-16)
```

constant math_half_pi

Description

Holds $\pi/2$.

```
admin
constant math_half_pi

mentdb
(1.5707963267948966 ± 1.1E-16)
```

constant math_pi

Description

Holds the ratio of the circumference of a circle to its diameter

```
admin
constant math_pi

mentdb
(3.1415926535897931 ± 2.2E-16)
```

constant math_pi_square

Description

Holds pi^2

```
admin
constant math_pi_square

mentdb
(9.869604401089358 ± 8.9E-16)
```

constant math_two_pi

Description

Holds 2*pi

```
admin
constant math_two_pi

mentdb
(6.2831853071795862 ± 4.4E-16)
```

constant physics_a0

Description

Holds the Bohr radius ($a/(4\pi \cdot R_{inf})$)

```
admin
constant physics_a0

mentdb
(5.291772E-11 ± 1.8E-17) m
```

constant physics_amu

Description

Holds the unified atomic mass unit (0.001 kg/mol)/N

```
admin
constant physics_amu

mentdb
(1.6605389E-27 ± 2.8E-34) kg
```

constant physics_bohr_magneton

Description

Holds the Bohr magneton ($\hbar \cdot e / 2m_e$)

```
admin
constant physics_bohr_magneton

mentdb
(9.274009E-24 ± 4.0E-30) C·J·s/kg
```

constant physics_c

Description

Holds the speed of light in vacuum (exact).

```
admin
constant physics_c

mentdb
299792458 m/s
```

constant physics_c_square

Description

Holds c^2 .

```
admin
constant physics_c_square

mentdb
89875517873681764 m2/s2
```

constant physics_e

Description

Holds the elementary charge (positron charge).

```
admin
constant physics_e

mentdb
(1.6021765E-19 ± 1.4E-26) C
```

constant physics_eh

Description

Holds the Hartree energy (2Rinf·h·c)

```
admin
constant physics_eh

mentdb
(4.3597442E-18 ± 7.2E-25) J
```

constant physics_f

Description

Holds the Faraday constant (N·e)

```
admin
constant physics_f

mentdb
(96485.34 ± 0.024) C/mol
```

constant physics_fine_structure

Description

Holds the fine structure constant ($e^2/(2\cdot\epsilon_0\cdot c\cdot h)$)

```
admin
constant physics_fine_structure

mentdb
(0.007297353 ± 2.5E-9)
```

constant physics_g

Description

Holds the standard acceleration due to gravity (approximately equal to the acceleration due to gravity on the Earth's surface).

```
admin
constant physics_g

mentdb
(9.8066499999999976 ± 8.9E-16) m/s2
```

constant physics_g0

Description

Holds the conductance quantum ($2e^2/h$)

```
admin
constant physics_g0

mentdb
(0.00007748092 ± 2.6E-11) S
```

constant physics_k

Description

Holds the Boltzmann constant.

```
admin
constant physics_k

mentdb
(1.380651E-23 ± 2.4E-29) J/K
```

constant physics_lp

Description

Holds the Planck length ($\hbar/(mP·c)$)

```
admin
constant physics_lp

mentdb
(1.6162E-35 ± 1.2E-39) m
```

constant physics_m_deuteron

Description

Holds the deuteron rest mass.

```
admin
constant physics_m_deuteron

mentdb
(3.3435833E-27 ± 5.7E-34) kg
```

constant physics_m_electron

Description

Holds the electron rest mass.

```
admin
constant physics_m_electron

mentdb
(9.109383E-31 ± 1.6E-37) kg
```

constant physics_m_muon

Description

Holds the muon rest mass.

```
admin
constant physics_m_muon

mentdb
(1.8835314E-28 ± 3.3E-35) kg
```

constant physics_m_neutron

Description

Holds the neutron rest mass.

```
admin
constant physics_m_neutron

mentdb
(1.6749273E-27 ± 2.9E-34) kg
```

constant physics_m_proton

Description

Holds the proton rest mass.

```
admin
constant physics_m_proton

mentdb
(1.6726217E-27 ± 2.9E-34) kg
```

constant physics_magn_flux_quantum

Description

Holds the magnetic flux quantum ($\hbar/2e$)

```
admin
constant physics_magn_flux_quantum

mentdb
(2.0678337E-15 ± 5.2E-22) Wb
```

constant physics_mp

Description

Holds the Planck mass ($\hbar \cdot c / G$) $^{1/2}$

```
admin
constant physics_mp

mentdb
(2.1765E-8 ± 1.6E-12) kg
```

constant physics_n

Description

Holds the Avogadro constant.

```
admin
constant physics_n

mentdb
(6.022142E23 ± 1.0E17) 1/mol
```

constant physics_newtonian_g

Description

Holds the Newtonian constant of gravitation.

```
admin
constant physics_newtonian_g

mentdb
(6.674E-11 ± 1.0E-14) m³/(kg·s²)
```

constant physics_nuclear_magneton

Description

Holds the nuclear magneton ($\hbar \cdot e / 2m_p$)

```
admin
constant physics_nuclear_magneton

mentdb
(5.050783E-27 ± 2.2E-33) C·J·s/kg
```

constant physics_perm_vac_electric

Description

Holds the permeability of vacuum or electric constant.

```
admin
constant physics_perm_vac_electric

mentdb
(8.854187817620389E-12 ± 2.4E-27) A²·s²/(N·m²)
```

constant physics_perm_vac_magnetic

Description

Holds the permeability of vacuum or magnetic constant.

```
admin
constant physics_perm_vac_magnetic

mentdb
(0.0000012566370614359171 ± 1.1E-22) N/A2
```

constant physics_planck

Description

Holds the Planck constant.

```
admin
constant physics_planck

mentdb
(6.626069E-34 ± 1.1E-40) J·s
```

constant physics_planck_over_two_pi

Description

Holds the Planck constant over 2*pi.

```
admin
constant physics_planck_over_two_pi

mentdb
(1.0545717E-34 ± 1.8E-41) J·s
```

constant physics_r

Description

Holds the molar gas constant (N·k)

```
admin
constant physics_r

mentdb
(8.31447 ± 0.000016) J/(mol·K)
```

constant physics_rinf

Description

Holds the Rydberg constant ($a^2 \cdot me \cdot c / 2h$).

```
admin
constant physics_rinf

mentdb
(1.097373156852E7 ± 0.000073) 1/m
```

constant physics_stefan_boltzmann

Description

Holds the Stefan-Boltzmann constant ($(\pi^2/60) \cdot k^4 / (h^3 \cdot c^2)$)

```
admin
constant physics_stefan_boltzmann

mentdb
(5.6704E-8 ± 4.2E-13) J/(K^4 · s · m^2)
```

constant physics_tp

Description

Holds the Planck time (IP/c)

```
admin
constant physics_tp

mentdb
(5.3912E-44 ± 4.1E-48) s
```

constant physics_z0

Description

Holds the characteristic impedance of vacuum ($\mu_0 \cdot c$).

```
admin
constant physics_z0

mentdb
(376.73031346177061 ± 2.8E-14) Ω
```

CSV

- CSV parser.

```
csv parse
```

csv parse <namespace> <filePath> <columnSeparator> <quoteChar> <forceColumnNames>
<mqlAction>

Description

Parse CSV file

Parameters

namespace: The namespace -string - required
filePath: The file path -string - required
columnSeparator: The column separator -string - required
quoteChar: The quote char -string - required
forceColumnNames: To force the column name (can be empty) -string - required
mqlAction: The MQL action to execut on each line -string - required

```
admin
csv parse (mql "T") (mql "/Users/jimmitry/Desktop/file.csv") (mql ",") (mql "") (mql "A,E")
mentdb
```

Data quality

- Here you can check your data quality.

dq algorithm show
dq algorithm exist
dq algorithm remove
dq analyse

dq algorithm set
dq algorithm get
dq generate
dq analyse show

dq algorithm show

Description

Show all algorithms

dq algorithm set <key> <mql>

Description

Set an algorithm

Parameters

key: The key - string - required
mql: The MQL source code -string - required

```
admin
dq algorithm set "key" (mql {
    type is_char [VAR] 25;
})
mentdb
1
```

dq algorithm exist <key>

Description

Check if an algorithm already exist

Parameters

key: The key -string - required

```
admin
dq algorithm exist "key"

mentdb
1
```

dq algorithm get <key>

Description

Get an algorithm

Parameters

key: The key -string - required

```
admin
dq algorithm get "key"

mentdb
<br> type is_char [VAR] 25;<br>
```

dq algorithm remove <key>

Description

Remove an algorithm

Parameters

key: The key -string - required

```
admin
dq algorithm remove "key"

mentdb
1
```

dq generate <cmld> <tablename> <fieldname> <jsonArrayAlgoid> <sqlSource>

Description

Generate the Data Quality MQL script

Parameters

cmld: The database connection id -string - required

tablename: The table name -string - required

fieldname: The field name -string - required

jsonArrayAlgoid: The json array with selected algorithms id -string - required

sqlSource: The select query (origin) -string - required

```

admin
dq generate "demo_cm_mysql" "products" "quantity" "[
  \"is_big_int\",
  \"is_date\"
]" "select * from products limit 0, 500"

mentdb
json load "dq" "[]";<br><br>json load "dq_quantity" "{}";<br>json iobject "dq_quantity" /

```

dq analyse <cmld> <jsonArrayAlgoid> <title> <sqlSource>

Description

Make a data quality on a database

Parameters

cmld: The database connection id -string - required
 jsonArrayAlgoid: The json array with selected algorithms id -string - required
 title: The title -string - required
 sqlSource: The select query (origin) -string - required

```

admin
json load "dq" "[]";

json load "dq_name" "{}";
json iobject "dq_name" / field "name" STR;
json iobject "dq_name" / algo "{}" OBJ;
json iobject "dq_name" /algo "is_float" (mql {
  type is_float [T_name];
}) STR;
json iobject "dq_name" /algo "is_null" (mql {
  is null [T_name];
}) STR;
json iobject "dq_name" /algo "is_small_int" (mql {
  type is_small_int [T_name];
}) STR;
json iobject "dq_name" /algo "is_valid_timestamp" (mql {
  type is_valid_timestamp [T_name] "yyyy-MM-dd HH:mm:ss";
}) STR;
json iarray "dq" / (json doc "dq_name") OBJ;

dq analyse "demo_cm_mysql" (json doc "dq") "products" "SELECT * FROM `products` LIMIT 0, 5

mentdb
In editor ...

```

dq analyse show <cmld> <jsonArrayAlgoid> <algoKey> <fieldKey> <title> <sqlSource>

Description

Show an analyse

Parameters

cmld: The database connection id -string - required
 jsonArrayAlgoid: The json array with selected algorithms id -string - required
 algoKey: The algo key selected -string - required
 fieldKey: The field key selected -string - required

title: The title -string - required
sqlSource: The select query (origin) -string - required

```
admin
json load "dq" "[ ]";

json load "dq_name" "{}";
json iobject "dq_name" / field "name" STR;
json iobject "dq_name" / algo "{}" OBJ;
json iobject "dq_name" /algo "is_float" (mql {
    type is_float [T_name];
}) STR;
json iobject "dq_name" /algo "is_null" (mql {
    is null [T_name];
}) STR;
json iobject "dq_name" /algo "is_small_int" (mql {
    type is_small_int [T_name];
}) STR;
json iobject "dq_name" /algo "is_valid_timestamp" (mql {
    type is_valid_timestamp [T_name] "yyyy-MM-dd HH:mm:ss";
}) STR;
json iarray "dq" / (json doc "dq_name") OBJ;

dq analyse show "demo_cm_mysql" (json doc "dq") "is_float" "name" "products" "SELECT * FRO
mentdb
In editor ...
```

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Data Type

- Here you can see all data types in the MQL language.

<u>numeric</u>	<u>string</u>
<u>null</u>	<u>[n]</u>
<u>[r]</u>	<u>variable</u>
<u>boolean</u>	<u>json</u>
<u>comment</u>	<u>error</u>

numeric

Description

Numeric type

```
admin  
123
```

```
mentdb  
123
```

```
admin  
+ 3 4
```

```
mentdb  
7
```

string

Description

String type

```
admin  
"Hello!"
```

```
mentdb  
Hello!
```

```
admin  
concat "Hello" "Adam" "!"
```

```
mentdb  
Hello Adam!
```

null

Description

Null type

```
admin
null
```

```
mentdb
null
```

```
admin
is null null;
```

```
mentdb
1
```

[_n_]

Description

LF

```
admin
[_n_]
```

```
mentdb
```

[_r_]

Description

CR

```
admin
[_r_]
```

```
mentdb
```

variable

Description

Variable type

```
admin
-> "[var1]" 16
```

```
mentdb
16
```

```
admin
env show;

mentdb
{
  "[var2]": "16"
}
```

boolean

Description

Boolean type

```
admin
true

mentdb
1
```

```
admin
false

mentdb
0
```

json

Description

JSON type

```
admin
json load "keyId" "{}";

mentdb
1
```

```
admin
json doc "keyId";

mentdb
{}
```

comment

Description

Comment type

```
admin
#This is a comment;

mentdb
This is a comment ...
```

error

Description

Error type

```
admin
exception (1) ("your message ...");

mentdb
1: your message ...
```

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Date

- Like all languages, you have a few data manipulation functions.

date add	date addt
date current_ms	date current_ns
date curdate	date current_date
date current_time	date current_timestamp
date curtime	date curtimestamp
date dateadd	date dateaddt
date datediff	date datedifft
date ts_to_long	date dt_to_long
date long_to_dt	date long_to_ts
date day_of_month	date day_of_week
date day_of_year	date dayname
date diff	date diff
date full_systimestamp	date hour
date is_valid_date	date is_valid_date
date is_valid_time	date is_valid_timestamp
date is_valid_timestamp	date format
date minute	date month
date monthname	date nb_day
date seconde	date sysdate
date systime	date systimestamp
date now	date systimestamp_min
date time	date year

date add <date> <field> <number>

Description

add a number to a date.

Parameters

date: The date - String - required
 field: The field to add (DAY|MONTH|YEAR) -String - required
 number: The number to add -Number - required

```
admin
date add "1980-06-18" "DAY" 1
```

```
mentdb
1980-06-19
```

date addt <timestamp> <field> <number>

Description

add a number to a time stamp.

Parameters

timestamp: The timestamp - String - required
field: The field to add (SEC|MIN|HOUR|DAY|MONTH|YEAR) -String - required
number: The number to add -Number - required

```
admin
date addt "1980-06-18 00:00:00" "DAY" 1

mentdb
1980-06-19 00:00:00
```

date current_ms

Description

returns the current time in milli second.

```
admin
date current_ms

mentdb
1496164604097
```

date current_ns

Description

returns the current time in nano second.

```
admin
date current_ns

mentdb
823603146305304
```

date curdate

Description

returns the current date.

```
admin
date curdate

mentdb
2015-09-13
```

date current_date

Description

returns the current date.

```
admin  
date current_date
```

```
mentdb  
2015-09-13
```

date current_time

Description

returns the current time.

```
admin  
date current_time
```

```
mentdb  
14:01:22
```

date current_timestamp

Description

returns the current timestamp.

```
admin  
date current_timestamp
```

```
mentdb  
2015-09-13 14:01:42
```

date curtime

Description

returns the current time.

```
admin  
date curtime
```

```
mentdb  
14:01:57
```

date curtimestamp

Description

returns the current timestamp.

```
admin
date curtimestamp

mentdb
2015-09-13 14:02:13
```

date dateadd <date> <field> <number>

Description

add a number to a date.

Parameters

date: The date - String - required
field: The field to add (DAY|MONTH|YEAR) -String - required
number: The number to add -Number - required

```
admin
date dateadd "1980-06-18" "DAY" 1

mentdb
1980-06-19
```

date dateaddt <timestamp> <field> <number>

Description

add a number to a timestamp.

Parameters

timestamp: The timestamp - String - required
field: The field to add (SEC|MIN|HOUR|DAY|MONTH|YEAR) -String - required
number: The number to add -Number - required

```
admin
date dateaddt "1980-06-18 00:00:00" "DAY" 1

mentdb
1980-06-19 00:00:00
```

date datediff <date> <field> <number>

Description

sub a number to a date.

Parameters

date: The date - String - required
field: The field to add (DAY|MONTH|YEAR) -String - required
number: The number to add -Number - required

```
admin
date datediff "1980-06-18" "DAY" 1
```

```
mentdb
```

```
1980-06-17
```

date datediff <timestamp> <field> <number>

Description

sub a number to a date.

Parameters

timestamp: The timestamp - String - required

field: The field to add (SEC|MIN|HOUR|DAY|MONTH|YEAR) -String - required

number: The number to add -Number - required

```
admin
date datediff "1980-06-18 00:00:00" "DAY" 1
```

```
mentdb
```

```
1980-06-17 00:00:00
```

date ts_to_long <timestamp>

Description

timestamp to long.

Parameters

timestamp: The timestamp - String - required

```
admin
date ts_to_long "1980-06-18 00:00:00"
```

```
mentdb
```

```
330120000000
```

date dt_to_long <date>

Description

date to long.

Parameters

date: The date - String - required

```
admin
date dt_to_long "1980-06-18"
```

```
mentdb
```

```
330120000000
```

date long_to_dt <date>

Description

long to date.

Parameters

date: The date - String - required

```
admin
date long_to_dt "330120000000"

mentdb
1980-06-18
```

date long_to_ts <date>

Description

long to timestamp.

Parameters

date: The date - String - required

```
admin
date long_to_ts "330120000000"

mentdb
1980-06-18 00:00:00
```

date day_of_month <date>

Description

get the day of month of a date.

Parameters

date: The date - String - required

```
admin
date day_of_month "1980-06-18"

mentdb
18
```

date day_of_week <date>

Description

get the day of week of a date.

Parameters

date: The date - String - required

```
admin
date day_of_week "1980-06-18"

mentdb
3
```

date day_of_year <date>

Description

get the day of year of a date.

Parameters

date: The date - String - required

```
admin
date day_of_year "1980-06-18"

mentdb
170
```

date dayname <date>

Description

get the day name of a date.

Parameters

date: The date - String - required

```
admin
date dayname "1980-06-18"

mentdb
mercredi
```

date diff <date> <field> <number>

Description

sub a number to a date.

Parameters

date: The date - String - required

field: The field to add (DAY|MONTH|YEAR) - String - required

number: The number to add - Number - required

```
admin
date diff "1980-06-18" "DAY" 1

mentdb
1980-06-17
```

date diff <timestamp> <field> <number>

Description

sub a number to a time stamp.

Parameters

timestamp: The timestamp - String - required

field: The field to add (SEC|MIN|HOUR|DAY|MONTH|YEAR) -String - required

number: The number to add -Number - required

```
admin
date diff "1980-06-18 00:00:00" "DAY" 1
```

```
mentdb
1980-06-17 00:00:00
```

date full_systimestamp

Description

returns the current full timestamp.

```
admin
date full_systimestamp
```

```
mentdb
2015-09-13 14:03:20.395+0400
```

date hour <time>

Description

get the hour of a time.

Parameters

time: The time - String - required

```
admin
date hour "12:15:56"
```

```
mentdb
12
```

date is_valid_date <dateToValidate>

Description

check if a date is valid.

Parameters

dateToValidate: The date - String - required

```
admin
date is_valid_date "1980-06-18"

mentdb
1
```

date is_valid_date <dateToValidate> <format>

Description

check if a date is valid.

Parameters

dateToValidate: The date - String - required

format: The date format - String - required

```
admin
date is_valid_date "1980-06-18" "yyyy-MM-dd"

mentdb
1
```

date is_valid_time <timeToValidate>

Description

check if a time is valid.

Parameters

timeToValidate: The time (12:00:01) - String - required

```
admin
date is_valid_time "12:00:01"

mentdb
1
```

date is_valid_timestamp <timestampToValidate>

Description

check if a timestamp is valid.

Parameters

timestampToValidate: The timestamp - String - required

```
admin
date is_valid_timestamp "1980-06-18 12:00:01"

mentdb
1
```

date is_valid_timestamp <timestampToValidate> <format>

Description

check if a timestamp is valid.

Parameters

timestampToValidate: The timestamp - String - required
format: The format (ex: yyyy MM dd HH:mm:ss) -String - required

```
admin
date is_valid_timestamp "1980-06-18 12:00:01" "yyyy-MM-dd HH:mm:ss"

mentdb
1
```

date format <timestampToFormat> <formatIn> <formatOut>

Description

format a timestamp to another format.

Parameters

timestampToFormat: The timestamp - String - required
formatIn: The in format (ex: yyyyMMdd HH:mm) -String - required
formatOut: The out format (ex: yyyy MM dd HH:mm:ss) -String - required

```
admin
date format "19800618 12:00" "yyyyMMdd HH:mm" "yyyy-MM-dd HH:mm:ss"

mentdb
1980-06-18 12:00:01
```

date minute <time>

Description

get the minute of a time.

Parameters

time: The time - String - required

```
admin
date minute "12:15:56"

mentdb
15
```

date month <date>

Description

get the month of a date.

Parameters

date: The date - String - required

```
admin
```

```
date month "1980-06-18"
```

```
mentdb
```

```
6
```

date monthname <date>

Description

get the month name of a date.

Parameters

date: The date - String - required

```
admin
```

```
date monthname "1980-06-18"
```

```
mentdb
```

```
juin
```

date nb_day <date1> <date2>

Description

get the number of days between two dates

Parameters

date1: The date 1 - String - required

date2: The date 2 - String - required

```
admin
```

```
date nb_day "1980-06-18" "1980-06-20"
```

```
mentdb
```

```
2
```

date seconde <time>

Description

get the seconde of a time.

Parameters

time: The time - String - required

```
admin
```

```
date seconde "12:15:56"
```

```
mentdb
```

```
56
```

date sysdate

Description

returns the current date.

```
admin
date sysdate
```

```
mentdb
2015-09-13
```

date systime

Description

returns the current time.

```
admin
date systime
```

```
mentdb
14:04:18
```

date systimestamp

Description

returns the current timestamp.

```
admin
date systimestamp
```

```
mentdb
2015-09-13 14:04:32
```

date now

Description

returns the current timestamp.

```
admin
date now
```

```
mentdb
2015-09-13 14:04:32
```

date systimestamp_min

Description

returns the current timestamp in minimum format.

```
admin
date systimestamp_min

mentdb
20150913140446
```

date time <timestamp>

Description

get the time of a timestamp.

Parameters

timestamp: The timestamp - String - required

```
admin
date time "1980-06-18 12:25:56"

mentdb
12:25:56
```

date year <date>

Description

get the year of a date.

Parameters

date: The date - String - required

```
admin
date year "1980-06-18"

mentdb
1980
```

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Deep Learning

- Deep learning.

dl4j csv train_and_save_model	dl4j csv load_model
dl4j csv predict	dl4j show
dl4j exist	dl4j delete
dl n bayesian create_train_file	dl n bayesian show
dl n bayesian exist	dl n bayesian create_model
dl n bayesian load	dl n bayesian predict
dl n bayesian delete	dl bayesian show
dl bayesian exist	dl bayesian create
dl bayesian add_sentence	dl bayesian init
dl bayesian predict	dl bayesian delete
dl csv execute_config	dl csv load_network
dl csv predict	dl img step1 create_training
dl img step2 add_image	dl img step3 create_hidden_layer
dl img step4 create_or_load_network	dl img step5 train_network
dl img step6 predict	dl img step7 close_file
dl img execute_config	dl img load_network
dl img predict	

dl4j csv_train_and_save_model <json_config>

Description

To Train and save a model from a CSV file.

Parameters

json_config: The JSON configuration -string - required

```
admin
#-----;
# START GLOBAL PARAMETERS ;
#-----;
json load "dl4j_config" "{}";
json iobject "dl4j_config" / "dataTrainFile" "demo/dl4j_iris.csv" STR; #The CSV source fil
json iobject "dl4j_config" / "batchSizeTraining" "150" STR; #The number of line to train;
json iobject "dl4j_config" / "csvTest" "demo/dl4j_iris_test.csv" STR; #The CSV source file
json iobject "dl4j_config" / "testBatchSize" "9" STR; #The number of line to test;
json iobject "dl4j_config" / "pathToSaveModel" "demo/dl4j_iris.model" STR; #Save the model
json iobject "dl4j_config" / "pathToSaveNormalizer" "demo/dl4j_iris.normz" STR; #Save the
json iobject "dl4j_config" / "numClasses" "3" STR; #The number of classes;
json iobject "dl4j_config" / "labelIndex" "4" STR; #Where is the position of the label inc
json iobject "dl4j_config" / "iterations" "3000" STR; #The number of iterations;
json iobject "dl4j_config" / "epochs" "1" STR; #The number of fit;
json iobject "dl4j_config" / "seed" "123" STR; #Random number;
json iobject "dl4j_config" / "learningRate" 0.01 STR;
json iobject "dl4j_config" / "l2" 1e-4 STR;
json iobject "dl4j_config" / "regularization" true STR;
json iobject "dl4j_config" / "activation" "TANH" STR; #TANH|SOFTSIGN|SOFTPLUS|SOFTMAX|SIGM
json iobject "dl4j_config" / "weightInit" "XAVIER" STR; #ZERO|XAVIER_UNIFORM|XAVIER_LEGACY
#-----;
# ADDITIONAL GLOBAL PARAMETERS ;
#-----;
#json iobject "dl4j_config" / "optimizationAlgo" null STR; #STOCHASTIC_GRADIENT_DESCENT|LI
#json iobject "dl4j_config" / "biasInit" null STR;
#json iobject "dl4j_config" / "biasLearningRate" null STR;
#json iobject "dl4j_config" / "learningRateDecayPolicy" null STR; #TorchStep|Step|Sigmoid|
#json iobject "dl4j_config" / "lrPolicyDecayRate" null STR;
#json iobject "dl4j_config" / "lrPolicyPower" null STR;
#json iobject "dl4j_config" / "lrPolicySteps" null STR;
#json iobject "dl4j_config" / "l1" null STR;
#json iobject "dl4j_config" / "l1Bias" null STR;
#json iobject "dl4j_config" / "l2Bias" null STR;
#json iobject "dl4j_config" / "maxNumLineSearchIterations" null STR;
#json iobject "dl4j_config" / "miniBatch" null STR;
#json iobject "dl4j_config" / "minimize" null STR;
#json iobject "dl4j_config" / "useDropConnect" null STR;
#json iobject "dl4j_config" / "dropout" null STR.
```

```

"json iobject dl4j_config / "dropOut" null STR;
#json iobject "dl4j_config" / "dist" null STR; #BinomialDistribution:0:1|NormalDistributio
#json iobject "dl4j_config" / "updater" null STR; #SGD|RMSPROP|NONE|NESTEROV|NADAM|ADAMAX
#json iobject "dl4j_config" / "cacheMode" null STR; #NONE|HOST|DEVICE;
#json iobject "dl4j_config" / "convolutionMode" null STR; #Truncate|Strict|Same;
#json iobject "dl4j_config" / "gradientNormalization" null STR; #RenormalizeL2PerParamType
#json iobject "dl4j_config" / "gradientNormalizationThreshold" null STR;
#-----;
# BUILD LAYERS
#-----;
json iobject "dl4j_config" / "layers" "[ ]" ARRAY;
#-----;
json load "dl4j_hidden_layer01" "{}";
json iobject "dl4j_hidden_layer01" / "type" "DenseLayer" STR;
json iobject "dl4j_hidden_layer01" / "nIn" "4" STR;
json iobject "dl4j_hidden_layer01" / "nOut" "3" STR;
json iarray "dl4j_config" / layers (json doc "dl4j_hidden_layer01") OBJ;
#-----;
json load "dl4j_hidden_layer02" "{}";
json iobject "dl4j_hidden_layer02" / "type" "DenseLayer" STR;
json iobject "dl4j_hidden_layer02" / "nIn" "3" STR;
json iobject "dl4j_hidden_layer02" / "nOut" "3" STR;
json iarray "dl4j_config" / layers (json doc "dl4j_hidden_layer02") OBJ;
#-----;
json load "dl4j_hidden_layer03" "{}";
json iobject "dl4j_hidden_layer03" / "type" "OutputLayer" STR;
json iobject "dl4j_hidden_layer03" / "nIn" "3" STR;
json iobject "dl4j_hidden_layer03" / "nOut" "3" STR;
json iobject "dl4j_hidden_layer03" / "activation" "SOFTMAX" STR; #TANH|SOFTSIGN|SOFTPLUS|SOFTM
json iobject "dl4j_hidden_layer03" / "lossFunction" "NEGATIVELOGLIKELIHOOD" STR; #XENT|SQU
json iarray "dl4j_config" / layers (json doc "dl4j_hidden_layer03") OBJ;
#-----;
# EXAMPLE LAYERS
#-----;
#json load "dl4j_hidden_layer00" "{}";
#json iobject "dl4j_hidden_layer00" / "type" "SubsamplingLayer" STR;
#json iobject "dl4j_hidden_layer00" / "kernelSize" "5:5" STR;
#json iobject "dl4j_hidden_layer00" / "dropOut" "0.25" STR;
#json iobject "dl4j_hidden_layer00" / "stride" "5:5" STR;
#json iobject "dl4j_hidden_layer00" / "padding" "5:5" STR;
#json iobject "dl4j_hidden_layer00" / "convolutionMode" null STR; #Truncate|Strict|Same;
#json iobject "dl4j_hidden_layer00" / "eps" null STR;
#json iobject "dl4j_hidden_layer00" / "pnorm" null STR;
#json iobject "dl4j_hidden_layer00" / "poolingType" null STR; #SUM|PNORM|NONE|MAX|AVG;
#json iarray "dl4j_config" / layers (json doc "dl4j_hidden_layer00") OBJ;
#-----;
#json load "dl4j_hidden_layer00" "{}";
#json iobject "dl4j_hidden_layer00" / "type" "RBM" STR;
#json iobject "dl4j_hidden_layer00" / "nIn" "3" STR;
#json iobject "dl4j_hidden_layer00" / "nOut" "3" STR;
#json iobject "dl4j_hidden_layer00" / "dropOut" "0.25" STR;
#json iobject "dl4j_hidden_layer00" / "activation" null STR; #TANH|SOFTSIGN|SOFTPLUS|SOFTM
#json iobject "dl4j_hidden_layer00" / "weightInit" null STR; #ZERO|XAVIER_UNIFORM|XAVIER_L
#json iobject "dl4j_hidden_layer00" / "dist" null STR; #BinomialDistribution:0:1|NormalDis
#json iobject "dl4j_hidden_layer00" / "biasInit" null STR;
#json iobject "dl4j_hidden_layer00" / "biasLearningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "l1" null STR;
#json iobject "dl4j_hidden_layer00" / "l1Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "l2" null STR;
#json iobject "dl4j_hidden_layer00" / "l2Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "gradientNormalization" null STR; #RenormalizeL2PerP
#json iobject "dl4j_hidden_layer00" / "gradientNormalizationThreshold" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRateDecayPolicy" null STR; #TorchStep|Step|
#json iobject "dl4j_hidden_layer00" / "updater" null STR; #SGD|RMSPROP|NONE|NESTEROV|NADA
#json iobject "dl4j_hidden_layer00" / "hiddenUnit" null STR; #SOFTMAX|RECTIFIED|IDENTITY|GAU
#json iobject "dl4j_hidden_layer00" / "k" null STR;
#json iobject "dl4j_hidden_layer00" / "lossFunction" null STR; #XENT|SQUARED_LOSS|SQUARED_
#json iobject "dl4j_hidden_layer00" / "preTrainIterations" null STR;
#json iobject "dl4j_hidden_layer00" / "sparsity" null STR;
#json iobject "dl4j_hidden_layer00" / "visibleBiasInit" null STR;
#json iobject "dl4j_hidden_layer00" / "visibleUnit" null STR; #SOFTMAX|LINEAR|IDENTITY|GAU
#json iarray "dl4j_config" / layers (json doc "dl4j_hidden_layer00") OBJ;
#-----;
#json load "dl4j_hidden_layer00" "{}";
#json iobject "dl4j_hidden_layer00" / "type" "LSTM" STR;
#json iobject "dl4j_hidden_layer00" / "nIn" "3" STR;
#json iobject "dl4j_hidden_layer00" / "nOut" "3" STR;
#json iobject "dl4j_hidden_layer00" / "dropOut" "0.25" STR;
#json iobject "dl4j_hidden_layer00" / "activation" null STR; #TANH|SOFTSIGN|SOFTPLUS|SOFTM
#json iobject "dl4j_hidden_layer00" / "weightInit" null STR; #ZERO|XAVIER_UNIFORM|XAVIER_L
#json iobject "dl4j_hidden_layer00" / "dist" null STR; #BinomialDistribution:0:1|NormalDis
#json iobject "dl4j_hidden_layer00" / "biasInit" null STR;
#json iobject "dl4j_hidden_layer00" / "biasLearningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "l1" null STR;
#json iobject "dl4j_hidden_layer00" / "l1Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "l2" null STR;
#json iobject "dl4j_hidden_layer00" / "l2Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "gradientNormalization" null STR; #RenormalizeL2PerP
#json iobject "dl4j_hidden_layer00" / "gradientNormalizationThreshold" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRate" null STR;

```

```

#json iobject "dl4j_hidden_layer00" / "learningRateDecayPolicy" null STR; #TorchStep|Step|
#json iobject "dl4j_hidden_layer00" / "updater" null STR; #SGD|RMSPROP|NONE|NESTEROVS|NADA
#json iobject "dl4j_hidden_layer00" / "forgetGateBiasInit" null STR;
#json iobject "dl4j_hidden_layer00" / "gateActivationFunction" null STR; #TANH|SOFTSIGN|SO
#json iarray "dl4j_config" /layers (json doc "dl4j_hidden_layer00") OBJ;
#-----;
#json load "dl4j_hidden_layer00" "{}";
#json iobject "dl4j_hidden_layer00" / "type" "LocalResponseNormalization" STR;
#json iobject "dl4j_hidden_layer00" / "dropOut" "0.25" STR;
#json iobject "dl4j_hidden_layer00" / "alpha" null STR;
#json iobject "dl4j_hidden_layer00" / "beta" null STR;
#json iobject "dl4j_hidden_layer00" / "k" null STR;
#json iobject "dl4j_hidden_layer00" / "n" null STR;
#json iarray "dl4j_config" /layers (json doc "dl4j_hidden_layer00") OBJ;
#-----;
#json load "dl4j_hidden_layer00" "{}";
#json iobject "dl4j_hidden_layer00" / "type" "GravesLSTM" STR;
#json iobject "dl4j_hidden_layer00" / "nIn" "3" STR;
#json iobject "dl4j_hidden_layer00" / "nOut" "3" STR;
#json iobject "dl4j_hidden_layer00" / "dropOut" "0.25" STR;
#json iobject "dl4j_hidden_layer00" / "activation" null STR; #TANH|SOFTSIGN|SOFTPLUS|SOFTM
#json iobject "dl4j_hidden_layer00" / "weightInit" null STR; #ZERO|XAVIER_UNIFORM|XAVIER_L
#json iobject "dl4j_hidden_layer00" / "dist" null STR; #BinomialDistribution:0:1|NormalDis
#json iobject "dl4j_hidden_layer00" / "biasInit" null STR;
#json iobject "dl4j_hidden_layer00" / "biasLearningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "l1" null STR;
#json iobject "dl4j_hidden_layer00" / "l1Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "l2" null STR;
#json iobject "dl4j_hidden_layer00" / "l2Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "gradientNormalization" null STR; #RenormalizeL2PerP
#json iobject "dl4j_hidden_layer00" / "gradientNormalizationThreshold" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRateDecayPolicy" null STR; #TorchStep|Step|
#json iobject "dl4j_hidden_layer00" / "updater" null STR; #SGD|RMSPROP|NONE|NESTEROVS|NADA
#json iobject "dl4j_hidden_layer00" / "forgetGateBiasInit" null STR;
#json iobject "dl4j_hidden_layer00" / "gateActivationFunction" null STR; #TANH|SOFTSIGN|SO
#json iarray "dl4j_config" /layers (json doc "dl4j_hidden_layer00") OBJ;
#-----;
#json load "dl4j_hidden_layer00" "{}";
#json iobject "dl4j_hidden_layer00" / "type" "GravesBidirectionalLSTM" STR;
#json iobject "dl4j_hidden_layer00" / "nIn" "3" STR;
#json iobject "dl4j_hidden_layer00" / "nOut" "3" STR;
#json iobject "dl4j_hidden_layer00" / "dropOut" "0.25" STR;
#json iobject "dl4j_hidden_layer00" / "activation" null STR; #TANH|SOFTSIGN|SOFTPLUS|SOFTM
#json iobject "dl4j_hidden_layer00" / "weightInit" null STR; #ZERO|XAVIER_UNIFORM|XAVIER_L
#json iobject "dl4j_hidden_layer00" / "dist" null STR; #BinomialDistribution:0:1|NormalDis
#json iobject "dl4j_hidden_layer00" / "biasInit" null STR;
#json iobject "dl4j_hidden_layer00" / "biasLearningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "l1" null STR;
#json iobject "dl4j_hidden_layer00" / "l1Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "l2" null STR;
#json iobject "dl4j_hidden_layer00" / "l2Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "gradientNormalization" null STR; #RenormalizeL2PerP
#json iobject "dl4j_hidden_layer00" / "gradientNormalizationThreshold" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRateDecayPolicy" null STR; #TorchStep|Step|
#json iobject "dl4j_hidden_layer00" / "forgetGateBiasInit" null STR;
#json iobject "dl4j_hidden_layer00" / "gateActivationFunction" null STR; #TANH|SOFTSIGN|SO
#json iarray "dl4j_config" /layers (json doc "dl4j_hidden_layer00") OBJ;
#-----;
#json load "dl4j_hidden_layer00" "{}";
#json iobject "dl4j_hidden_layer00" / "type" "AutoEncoder" STR;
#json iobject "dl4j_hidden_layer00" / "nIn" "3" STR;
#json iobject "dl4j_hidden_layer00" / "nOut" "3" STR;
#json iobject "dl4j_hidden_layer00" / "dropOut" "0.25" STR;
#json iobject "dl4j_hidden_layer00" / "activation" null STR; #TANH|SOFTSIGN|SOFTPLUS|SOFTM
#json iobject "dl4j_hidden_layer00" / "weightInit" null STR; #ZERO|XAVIER_UNIFORM|XAVIER_L
#json iobject "dl4j_hidden_layer00" / "dist" null STR; #BinomialDistribution:0:1|NormalDis
#json iobject "dl4j_hidden_layer00" / "biasInit" null STR;
#json iobject "dl4j_hidden_layer00" / "biasLearningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "l1" null STR;
#json iobject "dl4j_hidden_layer00" / "l1Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "l2" null STR;
#json iobject "dl4j_hidden_layer00" / "l2Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "gradientNormalization" null STR; #RenormalizeL2PerP
#json iobject "dl4j_hidden_layer00" / "gradientNormalizationThreshold" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRateDecayPolicy" null STR; #TorchStep|Step|
#json iobject "dl4j_hidden_layer00" / "updater" null STR; #SGD|RMSPROP|NONE|NESTEROVS|NADA
#json iobject "dl4j_hidden_layer00" / "corruptionLevel" null STR;
#json iobject "dl4j_hidden_layer00" / "preTrainIterations" null STR;
#json iobject "dl4j_hidden_layer00" / "sparsity" null STR;
#json iobject "dl4j_hidden_layer00" / "visibleBiasInit" null STR;
#json iobject "dl4j_hidden_layer00" / "lossFunction" null STR; #XENT|SQUARED_LOSS|SQUARED_
#json iarray "dl4j_config" /layers (json doc "dl4j_hidden_layer00") OBJ;
#-----;
#json load "dl4j_hidden_layer00" "{}";
#json iobject "dl4j_hidden_layer00" / "type" "BatchNormalization" STR;
#json iobject "dl4j_hidden_layer00" / "nIn" "3" STR;
#json iobject "dl4j_hidden_layer00" / "nOut" "3" STR;

```

```

#json iobject "dl4j_hidden_layer00" / "dropOut" "0.25" STR;
#json iobject "dl4j_hidden_layer00" / "activation" null STR; #TANH|SOFTSIGN|SOFTPLUS|SOFTM
#json iobject "dl4j_hidden_layer00" / "weightInit" null STR; #ZERO|XAVIER_UNIFORM|XAVIER_L
#json iobject "dl4j_hidden_layer00" / "dist" null STR; #BinomialDistribution:0:1|NormalDis
#json iobject "dl4j_hidden_layer00" / "biasInit" null STR;
#json iobject "dl4j_hidden_layer00" / "biasLearningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "l1" null STR;
#json iobject "dl4j_hidden_layer00" / "l1Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "l2" null STR;
#json iobject "dl4j_hidden_layer00" / "l2Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "gradientNormalization" null STR; #RenormalizeL2PerP
#json iobject "dl4j_hidden_layer00" / "gradientNormalizationThreshold" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRateDecayPolicy" null STR; #TorchStep|Step|
#json iobject "dl4j_hidden_layer00" / "updater" null STR; #SGD|RMSPROP|NONE|NESTEROVS|NADA
#json iobject "dl4j_hidden_layer00" / "eps" null STR;
#json iobject "dl4j_hidden_layer00" / "beta" null STR;
#json iobject "dl4j_hidden_layer00" / "decay" null STR;
#json iobject "dl4j_hidden_layer00" / "gamma" null STR;
#json iobject "dl4j_hidden_layer00" / "lockGammaBeta" null STR; #Boolean;
#json iobject "dl4j_hidden_layer00" / "minibatch" null STR; #Boolean;
#json iarray "dl4j_config" /layers (json doc "dl4j_hidden_layer00") OBJ;
-----;
#json load "dl4j_hidden_layer00" "{}";
#json iobject "dl4j_hidden_layer00" / "type" "GlobalPoolingLayer" STR;
#json iobject "dl4j_hidden_layer00" / "dropOut" "0.25" STR;
#json iobject "dl4j_hidden_layer00" / "poolingType" null STR; #SUM|PNORM|NONE|MAX|AVG;
#json iobject "dl4j_hidden_layer00" / "pnorm" null STR;
#json iobject "dl4j_hidden_layer00" / "collapseDimensions" null STR; #Boolean;
#json iobject "dl4j_hidden_layer00" / "poolingDimensions" null STR; #3:3;
#json iarray "dl4j_config" /layers (json doc "dl4j_hidden_layer00") OBJ;
-----;
#json load "dl4j_hidden_layer00" "{}";
#json iobject "dl4j_hidden_layer00" / "type" "EmbeddingLayer" STR;
#json iobject "dl4j_hidden_layer00" / "nIn" "3" STR;
#json iobject "dl4j_hidden_layer00" / "nOut" "3" STR;
#json iobject "dl4j_hidden_layer00" / "dropOut" "0.25" STR;
#json iobject "dl4j_hidden_layer00" / "activation" null STR; #TANH|SOFTSIGN|SOFTPLUS|SOFTM
#json iobject "dl4j_hidden_layer00" / "weightInit" null STR; #ZERO|XAVIER_UNIFORM|XAVIER_L
#json iobject "dl4j_hidden_layer00" / "dist" null STR; #BinomialDistribution:0:1|NormalDis
#json iobject "dl4j_hidden_layer00" / "biasInit" null STR;
#json iobject "dl4j_hidden_layer00" / "biasLearningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "l1" null STR;
#json iobject "dl4j_hidden_layer00" / "l1Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "l2" null STR;
#json iobject "dl4j_hidden_layer00" / "l2Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "gradientNormalization" null STR; #RenormalizeL2PerP
#json iobject "dl4j_hidden_layer00" / "gradientNormalizationThreshold" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRateDecayPolicy" null STR; #TorchStep|Step|
#json iobject "dl4j_hidden_layer00" / "updater" null STR; #SGD|RMSPROP|NONE|NESTEROVS|NADA
#json iarray "dl4j_config" /layers (json doc "dl4j_hidden_layer00") OBJ;
-----;
#json load "dl4j_hidden_layer00" "{}";
#json iobject "dl4j_hidden_layer00" / "type" "DropoutLayer" STR;
#json iobject "dl4j_hidden_layer00" / "nIn" "3" STR;
#json iobject "dl4j_hidden_layer00" / "nOut" "3" STR;
#json iobject "dl4j_hidden_layer00" / "dropOut" "0.25" STR;
#json iobject "dl4j_hidden_layer00" / "activation" null STR; #TANH|SOFTSIGN|SOFTPLUS|SOFTM
#json iobject "dl4j_hidden_layer00" / "weightInit" null STR; #ZERO|XAVIER_UNIFORM|XAVIER_L
#json iobject "dl4j_hidden_layer00" / "dist" null STR; #BinomialDistribution:0:1|NormalDis
#json iobject "dl4j_hidden_layer00" / "biasInit" null STR;
#json iobject "dl4j_hidden_layer00" / "biasLearningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "l1" null STR;
#json iobject "dl4j_hidden_layer00" / "l1Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "l2" null STR;
#json iobject "dl4j_hidden_layer00" / "l2Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "gradientNormalization" null STR; #RenormalizeL2PerP
#json iobject "dl4j_hidden_layer00" / "gradientNormalizationThreshold" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRateDecayPolicy" null STR; #TorchStep|Step|
#json iobject "dl4j_hidden_layer00" / "updater" null STR; #SGD|RMSPROP|NONE|NESTEROVS|NADA
#json iarray "dl4j_config" /layers (json doc "dl4j_hidden_layer00") OBJ;
-----;
#json load "dl4j_hidden_layer00" "{}";
#json iobject "dl4j_hidden_layer00" / "type" "ActivationLayer" STR;
#json iobject "dl4j_hidden_layer00" / "dropOut" "0.25" STR;
#json iobject "dl4j_hidden_layer00" / "activation" null STR; #TANH|SOFTSIGN|SOFTPLUS|SOFTM
#json iarray "dl4j_config" /layers (json doc "dl4j_hidden_layer00") OBJ;
-----;
#json load "dl4j_hidden_layer00" "{}";
#json iobject "dl4j_hidden_layer00" / "type" "DenseLayer" STR;
#json iobject "dl4j_hidden_layer00" / "nIn" "3" STR;
#json iobject "dl4j_hidden_layer00" / "nOut" "3" STR;
#json iobject "dl4j_hidden_layer00" / "dropOut" "0.25" STR;
#json iobject "dl4j_hidden_layer00" / "activation" null STR; #TANH|SOFTSIGN|SOFTPLUS|SOFTM
#json iobject "dl4j_hidden_layer00" / "weightInit" null STR; #ZERO|XAVIER_UNIFORM|XAVIER_L
#json iobject "dl4j_hidden_layer00" / "dist" null STR; #BinomialDistribution:0:1|NormalDis
#json iobject "dl4j_hidden_layer00" / "biasInit" null STR;
#json iobject "dl4j_hidden_layer00" / "biasLearningRate" null STR;

```

```

#json iobject "dl4j_hidden_layer00" / "11" null STR;
#json iobject "dl4j_hidden_layer00" / "11Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "12" null STR;
#json iobject "dl4j_hidden_layer00" / "12Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "gradientNormalization" null STR; #RenormalizeL2PerP
#json iobject "dl4j_hidden_layer00" / "gradientNormalizationThreshold" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRateDecayPolicy" null STR; #TorchStep|Step|
#json iobject "dl4j_hidden_layer00" / "updater" null STR; #SGD|RMSPROP|NONE|NESTEROVS|NADA
#json iarray "dl4j_config" /layers (json doc "dl4j_hidden_layer00") OBJ;
-----
#json load "dl4j_hidden_layer00" "{}";
#json iobject "dl4j_hidden_layer00" / "type" "ConvolutionLayer" STR;
#json iobject "dl4j_hidden_layer00" / "kernelSize" "5:5" STR;
#json iobject "dl4j_hidden_layer00" / "nIn" "3" STR;
#json iobject "dl4j_hidden_layer00" / "nOut" "3" STR;
#json iobject "dl4j_hidden_layer00" / "dropOut" "0.25" STR;
#json iobject "dl4j_hidden_layer00" / "activation" null STR; #TANH|SOFTSIGN|SOFTPLUS|SOFTM
#json iobject "dl4j_hidden_layer00" / "weightInit" null STR; #ZERO|XAVIER_UNIFORM|XAVIER_L
#json iobject "dl4j_hidden_layer00" / "stride" "5:5" STR;
#json iobject "dl4j_hidden_layer00" / "padding" "5:5" STR;
#json iobject "dl4j_hidden_layer00" / "dist" null STR; #BinomialDistribution:0:1|NormalDis
#json iobject "dl4j_hidden_layer00" / "biasInit" null STR;
#json iobject "dl4j_hidden_layer00" / "biasLearningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "epsilon" null STR;
#json iobject "dl4j_hidden_layer00" / "11" null STR;
#json iobject "dl4j_hidden_layer00" / "11Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "12" null STR;
#json iobject "dl4j_hidden_layer00" / "12Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "gradientNormalization" null STR; #RenormalizeL2PerP
#json iobject "dl4j_hidden_layer00" / "gradientNormalizationThreshold" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRateDecayPolicy" null STR; #TorchStep|Step|
#json iobject "dl4j_hidden_layer00" / "momentum" null STR;
#json iobject "dl4j_hidden_layer00" / "rho" null STR;
#json iobject "dl4j_hidden_layer00" / "rmsDecay" null STR;
#json iobject "dl4j_hidden_layer00" / "convolutionMode" null STR; #Truncate|Strict|Same;
#json iobject "dl4j_hidden_layer00" / "updater" null STR; #SGD|RMSPROP|NONE|NESTEROVS|NADA
#json iobject "dl4j_hidden_layer00" / "adamMeanDecay" null STR;
#json iobject "dl4j_hidden_layer00" / "adamVarDecay" null STR;
#json iobject "dl4j_hidden_layer00" / "cudnnAlgoMode" null STR; #USER_SPECIFIED|PREFER_FAS
#json iobject "dl4j_hidden_layer00" / "cudnnBwdDataMode" null STR; #WINOGRAD_NONFUSED|WINO
#json iobject "dl4j_hidden_layer00" / "cudnnBwdFilterMode" null STR; #WINOGRAD_NONFUSED|WI
#json iobject "dl4j_hidden_layer00" / "cudnnFwdMode" null STR; #WINOGRAD_NONFUSED|WINOGRAD
#json iarray "dl4j_config" /layers (json doc "dl4j_hidden_layer00") OBJ;
-----
#json load "dl4j_hidden_layer00" "{}";
#json iobject "dl4j_hidden_layer00" / "type" "OutputLayer" STR;
#json iobject "dl4j_hidden_layer00" / "nIn" "3" STR;
#json iobject "dl4j_hidden_layer00" / "nOut" "3" STR;
#json iobject "dl4j_hidden_layer00" / "dropOut" "0.25" STR;
#json iobject "dl4j_hidden_layer00" / "activation" null STR; #TANH|SOFTSIGN|SOFTPLUS|SOFTM
#json iobject "dl4j_hidden_layer00" / "weightInit" null STR; #ZERO|XAVIER_UNIFORM|XAVIER_L
#json iobject "dl4j_hidden_layer00" / "dist" null STR; #BinomialDistribution:0:1|NormalDis
#json iobject "dl4j_hidden_layer00" / "biasInit" null STR;
#json iobject "dl4j_hidden_layer00" / "biasLearningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "11" null STR;
#json iobject "dl4j_hidden_layer00" / "11Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "12" null STR;
#json iobject "dl4j_hidden_layer00" / "12Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "gradientNormalization" null STR; #RenormalizeL2PerP
#json iobject "dl4j_hidden_layer00" / "gradientNormalizationThreshold" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRateDecayPolicy" null STR; #TorchStep|Step|
#json iobject "dl4j_hidden_layer00" / "updater" null STR; #SGD|RMSPROP|NONE|NESTEROVS|NADA
#json iobject "dl4j_hidden_layer00" / "lossFunction" null STR; #XENT|SQUARED_LOSS|SQUARED_
#json iarray "dl4j_config" /layers (json doc "dl4j_hidden_layer00") OBJ;
-----
#json load "dl4j_hidden_layer00" "{}";
#json iobject "dl4j_hidden_layer00" / "type" "CenterLossOutputLayer" STR;
#json iobject "dl4j_hidden_layer00" / "nIn" "3" STR;
#json iobject "dl4j_hidden_layer00" / "nout" "3" STR;
#json iobject "dl4j_hidden_layer00" / "dropOut" "0.25" STR;
#json iobject "dl4j_hidden_layer00" / "activation" null STR; #TANH|SOFTSIGN|SOFTPLUS|SOFTM
#json iobject "dl4j_hidden_layer00" / "weightInit" null STR; #ZERO|XAVIER_UNIFORM|XAVIER_L
#json iobject "dl4j_hidden_layer00" / "dist" null STR; #BinomialDistribution:0:1|NormalDis
#json iobject "dl4j_hidden_layer00" / "biasInit" null STR;
#json iobject "dl4j_hidden_layer00" / "biasLearningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "11" null STR;
#json iobject "dl4j_hidden_layer00" / "11Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "12" null STR;
#json iobject "dl4j_hidden_layer00" / "12Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "gradientNormalization" null STR; #RenormalizeL2PerP
#json iobject "dl4j_hidden_layer00" / "gradientNormalizationThreshold" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRateDecayPolicy" null STR; #TorchStep|Step|
#json iobject "dl4j_hidden_layer00" / "alpha" null STR;
#json iobject "dl4j_hidden_layer00" / "lambda" null STR;
#json iobject "dl4j_hidden_layer00" / "gradientCheck" null STR; #Boolean;
#json iobject "dl4j_hidden_layer00" / "updater" null STR; #SGD|RMSPROP|NONE|NESTEROVS|NADA

```

```

#json iobject "dl4j_hidden_layer00" / "lossFunction" null STR; #XENT|SQUARED_LOSS|SQUARED_
#json iarray "dl4j_config" /layers (json doc "dl4j_hidden_layer00") OBJ;
-----
#json load "dl4j_hidden_layer00" "{}";
#json iobject "dl4j_hidden_layer00" / "type" "RnnOutputLayer" STR;
#json iobject "dl4j_hidden_layer00" / "nIn" "3" STR;
#json iobject "dl4j_hidden_layer00" / "nout" "3" STR;
#json iobject "dl4j_hidden_layer00" / "dropOut" "0.25" STR;
#json iobject "dl4j_hidden_layer00" / "activation" null STR; #TANH|SOFTSIGN|SOFTPLUS|SOFTM
#json iobject "dl4j_hidden_layer00" / "weightInit" null STR; #ZERO|XAVIER_UNIFORM|XAVIER_L
#json iobject "dl4j_hidden_layer00" / "dist" null STR; #BinomialDistribution:0:1|NormalDis
#json iobject "dl4j_hidden_layer00" / "biasInit" null STR;
#json iobject "dl4j_hidden_layer00" / "biasLearningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "l1" null STR;
#json iobject "dl4j_hidden_layer00" / "l1Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "l2" null STR;
#json iobject "dl4j_hidden_layer00" / "l2Bias" null STR;
#json iobject "dl4j_hidden_layer00" / "gradientNormalization" null STR; #RenormalizeL2PerP
#json iobject "dl4j_hidden_layer00" / "gradientNormalizationThreshold" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRate" null STR;
#json iobject "dl4j_hidden_layer00" / "learningRateDecayPolicy" null STR; #TorchStep|Step|
#json iobject "dl4j_hidden_layer00" / "updater" null STR; #SGD|RMSPROP|NONE|NESTEROVS|NADA
#json iobject "dl4j_hidden_layer00" / "lossFunction" null STR; #XENT|SQUARED_LOSS|SQUARED_
#json iarray "dl4j_config" /layers (json doc "dl4j_hidden_layer00") OBJ;
-----
# END GLOBAL PARAMETERS ;
-----
json iobject "dl4j_config" / "backprop" true STR;
json iobject "dl4j_config" / "pretrain" false STR;

-----
# Train and save the model/serializer ;
-----
dl4j csv_train_and_save_model (json doc "dl4j_config");

mentdb
1

```

dl4j csv_load_model <dl4jId> <json_config>

Description

Load a DL4J model and normalizer into the memory

Parameters

dl4jId: The memory key to get the DL4J model -string - required
 json_config: The JSON configuration -string - required

```

admin
-----
# Load the model and the normalizer ;
-----
dl4j csv_load_model "dl4jId1" (json doc "dl4j_config");

mentdb
1

```

dl4j csv_predict <dl4jId> <json_config> <csv_file> <nb_line_to_predict>

Description

Make a prediction from a DL4J model

Parameters

dl4jId: The memory key to get the DL4J model -string - required
 json_config: The JSON configuration -string - required
 csv_file: The CSV file to predict -string - required
 nb_line_to_predict: The number of line to predict -number - required

```
admin
#-----;
# Make predictions ;
#-----;
dl4j csv_predict "dl4jId1" (json doc "dl4j_config") "demo/dl4j_iris_test.csv" 3;

mentdb
[
  {
    "probs": [
      0.97952205,
      0.01892847,
      0.0015495354
    ],
    "prob_class": "class1",
    "prob_index": 0
  },
  {
    "probs": [
      0.9793347,
      0.01910426,
      0.0015610401
    ],
    "prob_class": "class1",
    "prob_index": 0
  },
  {
    "probs": [
      0.97940457,
      0.019038359,
      0.0015570737
    ],
    "prob_class": "class1",
    "prob_index": 0
  }
]
```

dl4j show

Description

To show all DL4J networks.

```
admin
dl4j show

mentdb
[]
```

dl4j exist <dl4jId>

Description

To check if a DL4J network was already loaded.

Parameters

dl4jId: The dl4j id -string - required

```
admin
dl4j exist "dl4jId1";

mentdb
1
```

dl4j delete <dl4jId>

Description

To delete a DL4J network from the memory.

Parameters

dl4jId: The dl4j id -string - required

```
admin
dl4j delete "dl4jId1";

mentdb
1
```

dl n_bayesian create_train_file

Description

To get a train file.

```
admin
file create "demo/train.txt" "transfer VIR RECU 854526,VIR RECU 8545269324 DE: OCTO TECHNO
withdrawal CARTE X2052 RETRAI,CARTE X2052 RETRAIT DAB 22/06 21H37 CIC PARIS SAINT ROCH 108:
payment CARTE X2052 21/06 ,CARTE X2052 21/06 PHIE LA BOETIE
fees OPTION TRANQUILLIT,OPTION TRANQUILLITE
fees COTISATION JAZZ,COTISATION JAZZ
atmfees FRAIS PAIEMENT HOR,FRAIS PAIEMENT HORS ZONE EURO 1 PAIEMENT A 1.00 EUR NT 38.06 EU
atmfees FRAIS PAIEMENT HOR,FRAIS PAIEMENT HORS ZONE EURO 1 PAIEMENT A 1.00 EUR NT 3.33 EUR

mentdb
```

dl n_bayesian show

Description

To show all Naive Bayesian networks.

```
admin
dl n_bayesian show

mentdb
[]
```

dl n_bayesian exist <key>

Description

To check if a Naive Bayesian network already exist.

Parameters

key: The network key -string - required

```
admin
dl n_bayesian exist "bayesian1";

mentdb
1
```

dl n_bayesian create_model <lang> <train_file_path> <iterations_param> <model_file_path_to_save>

Description

To create a new Naive Bayesian network model.

Parameters

lang: The language -string - required

train_file_path: The train file path -string - required

iterations_param: The iterations param -number (ex: 10) - required

model_file_path_to_save: The model file path to save -string - required

```
admin
dl n_bayesian create_model "en" "demo/train.txt" 10 "demo/model.bin";

mentdb
1
```

dl n_bayesian load <key> <model_file_path>

Description

To load a Naive Bayesian network model.

Parameters

key: The network key -string - required
model_file_path: The model file path -string - required

```
admin
dl n_bayesian load "bayesian1" "demo/model.bin";

mentdb
1
```

dl n_bayesian predict <key> <sentence>

Description

To predict a sentence.

Parameters

key: The network key -string - required
sentence: The sentence -string - required

```
admin
dl n_bayesian predict "bayesian1" "21/06 PHIE LA BOETIE";

mentdb
{
  "input": "I\u0027m happy",
  "prediction": "positif",
  "best_percent": "66,666667 %",
  "best_index": 0,
  "probabilities": [
    {
      "prob_double": 0.6666666666666666,
      "index": 0,
      "prob_percent": "66,666667 %",
      "key": "positif"
    },
    {
      "prob_double": 0.3333333333333333,
      "index": 1,
      "prob_percent": "33,33333 %",
      "key": "negatif"
    }
  ],
  "best_double": 0.6666666666666666
}
```

dl n_bayesian delete <key>

Description

To delete a Naive Bayesian network.

Parameters

key: The network key -string - required

```
admin
dl n_bayesian delete "bayesian1";

mentdb
1
```

dl bayesian show

Description

To show all Bayesian networks.

```
admin
dl bayesian show

mentdb
[]
```

dl bayesian exist <key>

Description

To check if a Bayesian network already exist.

Parameters

key: The network key -string - required

```
admin
dl bayesian exist "bayesian1";

mentdb
1
```

dl bayesian create <key> <cats>

Description

To create a new Bayesian network.

Parameters

key: The network key -string - required

cats: The categories (JSON array) -string - required

```
admin
dl bayesian create "bayesian1" "[\"positif\", \"negatif\"]";

mentdb
1
```

dl bayesian add_sentence <key> <cat> <sentence>

Description

To create a new Bayesian network.

Parameters

key: The network key -string - required

cat: The category key -string - required

sentence: The sentence -string - required

```
admin
dl bayesian add_sentence "bayesian1" "positif" "I'm happy";

mentdb
1
```

dl bayesian init <key> <laplace_int>

Description

To init a Bayesian network.

Parameters

key: The network key -string - required

laplace_int: The Laplace int -number - required

```
admin
dl bayesian init "bayesian1" 1;

mentdb
1
```

dl bayesian predict <key> <sentence>

Description

To predict a sentence.

Parameters

key: The network key -string - required
sentence: The sentence -string - required

```
admin
dl bayesian predict "bayesian1" "I'm happy";

mentdb
{
  "input": "I\u0027m happy",
  "prediction": "positif",
  "best_percent": "66,666667 %",
  "best_index": 0,
  "probabilities": [
    {
      "prob_double": 0.6666666666666666,
      "index": 0,
      "prob_percent": "66,666667 %",
      "key": "positif"
    },
    {
      "prob_double": 0.3333333333333333,
      "index": 1,
      "prob_percent": "33,33333 %",
      "key": "negatif"
    }
  ],
  "best_double": 0.6666666666666666
}
```

dl bayesian delete <key>

Description

To delete a Bayesian network.

Parameters

key: The network key -string - required

```
admin
dl bayesian delete "bayesian1";

mentdb
1
```

dl csv execute_config <jsonConfig>

Description

Train a CSV file.

Parameters

jsonConfig: The train JSON configuration -string - required

```

admin
json load "csv_config" "{}";
json iobject "csv_config" / "filePath" "demo/iris.data.txt" STR;
json iobject "csv_config" / "modelPath" "demo/iris.md" STR;
json iobject "csv_config" / "helperPath" "demo/iris.hl" STR;
json iobject "csv_config" / "nbLoop" "6" STR;
json iobject "csv_config" / "validationPercent" "0.3" STR;
json iobject "csv_config" / "shuffle" "true" STR;
json iobject "csv_config" / "seed" "1001" STR;

json iobject "csv_config" / "cols" "[]" ARRAY;

json load "col" "{}";
json iobject "col" / "index" "0" STR;
json iobject "col" / "title" "sepal-length" STR;
json iobject "col" / "type" "in" STR;
json iarray "csv_config" "/cols" (json doc "col") OBJ;

json load "col" "{}";
json iobject "col" / "index" "1" STR;
json iobject "col" / "title" "sepal-width" STR;
json iobject "col" / "type" "in" STR;
json iarray "csv_config" "/cols" (json doc "col") OBJ;

json load "col" "{}";
json iobject "col" / "index" "2" STR;
json iobject "col" / "title" "petal-length" STR;
json iobject "col" / "type" "in" STR;
json iarray "csv_config" "/cols" (json doc "col") OBJ;

json load "col" "{}";
json iobject "col" / "index" "3" STR;
json iobject "col" / "title" "petal-width" STR;
json iobject "col" / "type" "in" STR;
json iarray "csv_config" "/cols" (json doc "col") OBJ;

json load "col" "{}";
json iobject "col" / "index" "4" STR;
json iobject "col" / "title" "species" STR;
json iobject "col" / "type" "out" STR;
json iarray "csv_config" "/cols" (json doc "col") OBJ;

dl csv execute_config (json doc "csv_config");

mentdb
1

```

dl csv load_network <modelFilePath> <helperFilePath>

Description

Load the model and the helper into the memory.

Parameters

modelFilePath: The model file path -string - required
 helperFilePath: The helper file path -string - required

```

admin
dl csv load_network "demo/iris.md" "demo/iris.hl";

mentdb
1

```

dl csv predict <jsonArrayInput>

Description

Predict from the model.

Parameters

jsonArrayInput: The JSON array that contains input values -string - required

```

admin
json load "input" "[5.9, 3.0, 5.1, 1.8]";
dl csv predict (json doc "input");

mentdb
Iris-virginica

```

```
admin
json load "input" "[5.6, 2.9, 3.6, 1.3]";
dl csv predict (json doc "input");

mentdb
Iris-versicolor
```

dl img step1 create_training <writerId> <width> <height> <isRGB>

Description

Create a training file.

Parameters

writerId: The writer id -string - required
width: The image width -number - required
height: The image height -number - required
isRGB: Is RGB ? (true, false) -bool - required

```
admin
#Create the training file;
file writer_open "w1" "demo/animals/imgTrainConfig.txt" true TEXT "utf-8";
dl img step1 create_training "w1" 100 100 true;

mentdb
1
```

dl img step2 add_image <writerId> <imgPath> <identity>

Description

Add image into the training file.

Parameters

writerId: The writer id -string - required
imgPath: The image path -string - required
identity: The image tag -string - required

```
admin
#Load input images;
-> "[dir]" "demo/animals/english_springer";
-> "[id]" "english_springer";
json load "files" (file dir_list [dir]);
-> "[nbFiles]" (json count "files" /);
-> "[iFiles]" 0;
for (-> "[i]" 0) (< [i] [nbFiles]) (++ "[i]") {
    -> "[cur_file]" (json select "files" (concat "/" ["[i]"]));
    if (string ends_with [cur_file] ".jpg") {
        dl img step2 add_image "w1" (concat [dir] "/" [cur_file]) [id];
        ++ "[iFiles]";
    };
};
file writer_flush "w1";
concat [iFiles] " files added.";

mentdb
1
```

dl img step3 create_hidden_layer <writerId> <nbNeuron>

Description

Create a hidden layer.

Parameters

writerId: The writer id -string - required
nbNeuron: The number of neuron in the hidden layers -number - required

```
admin
dl img step3 create_hidden_layer "w1" "100"
file writer_flush "w1";
```

```
mentdb
1
```

dl img step4 create_or_load_network <writerId> <activation> <saveNetworkPath>

Description

Create or load a network.

Parameters

writerId: The writer id -string - required

activation: The activation function (ex:

BiPolar|BipolarSteepenedSigmoid|ClippedLinear|Competitive|Elliott|ElliottSymmetric|Gaussian|Linear|LOG|Ramp|ReLU|Sigmoid|SIN|SoftMax|Steepened

- string - required

saveNetworkPath: The path to save the network -string - required

```
admin
dl img step4 create_or_load_network "w1" "tanh" "demo/animals/network.eg";
file writer_flush "w1";
```

```
mentdb
1
```

dl img step5 train_network <writerId> <mode> <minutes> <strategyError> <strategyCycles> <saveNetworkPath>

Description

Train a network.

Parameters

writerId: The writer id -string - required

mode: The mode (console|gui) -string - required

minutes: The number of minutes -number - required

strategyError: The strategy error (ex: 0.25) -number - required

strategyCycles: The strategy cycles (ex: 50) -number - required

saveNetworkPath: The path to save the network -string - required

```
admin
dl img step5 train_network "w1" "console" 1 0.25 50 "demo/animals/network.eg";
file writer_flush "w1";
```

```
mentdb
1
```

dl img step6 predict <writerId> <imgPath> <identity>

Description

Predict an image from a neural network.

Parameters

writerId: The writer id -string - required

imgPath: The image path -string - required

identity: The image tag -string - required

```

admin
#Load input images;
-> "[dir]" "demo/animals/english_springer_predict";
-> "[id]" "english_springer";
json load "files" (file dir_list [dir]);
-> "[nbFiles]" (json count "files" /);
-> "[iFiles]" 0;
for (-> "[i]" 0) (< [i] [nbFiles]) (++ "[i]") {

-> "[cur_file]" (json select "files" (concat "/[" [i] "]"));

if (string ends_with [cur_file] ".jpg") {

  dl img step6 predict "w1" (concat [dir] "/" [cur_file]) [id];
  ++ "[iFiles]";
}

};

file writer_flush "w1";
concat [iFiles] " files added.";

mentdb
1

```

dl img step7 close_file <writerId>

Description

Close the config file.

Parameters

writerId: The writer id -string - required

```

admin
#Close the config file;
file writer_close "w1";

mentdb
1

```

dl img execute_config <trainConfigFilePath>

Description

Execute a config training file

Parameters

trainConfigFilePath: The train config file path -string - required

```

admin
in editor {
  dl img execute_config "demo/animals/imgTrainConfig.txt"
};

mentdb
1

```

dl img load_network <networkPath>

Description

Load a network into the memory

Parameters

networkPath: The network path -string - required

```

admin
dl img load_network "demo/animals/network.eg";

mentdb
1

```

dl img predict <imagePath> <isRGB> <width> <height> <jsonIdentity>

Description

Predict an image from the network

Parameters

imagePath: The image path - string - required
isRGB: Is RGB ? (true|false) -string - required
width: The image width -string - required
height: The image height -string - required
jsonIdentity: The json identity -string - required

```
admin
dl img predict "dir/image.jpg" true 100 100 "{"
  \"0\": \"english_springer\""
}";

mentdb
1
```

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Environment variable

- You can save data into variables in your session.

env set var	concat_var
env incr var	env decr var
env get var	env exist var
env del var	env show

env set var <varName> <value>

Description

To set a variable into the environment

Parameters

varName: The variable name - string - required

value: The value - string - required

```
admin
env set var "[var1]" 15

mentdb
15
```

```
admin
-> "[var2]" 16

mentdb
16
```

concat_var <varName> <str1> <strN>

Description

Concat all parameters and save the result into the environment.

Parameters

varName: The variable name - String - required

str1: The string -String - required

strN: The string -String - required

```
admin
concat_var "[var1]" "a" "r"

mentdb
1
```

env incr var <varName> <increment>

Description

To increment a variable into the environment

Parameters

varName: The variable name -string - required
increment: The increment -integer - required

```
admin
env incr var "[var1]" 1

mentdb
16
```

```
admin
++ "[var1]"

mentdb
17
```

env decr var <varName> <decrement>

Description

To decrement a variable into the environment

Parameters

varName: The variable name -string - required
decrement: The decrement -integer - required

```
admin
env decr var "[var1]" 1

mentdb
16
```

```
admin
-- "[var1]"

mentdb
15
```

env get var <varName>

Description

To get a variable from into the environment

Parameters

varName: The variable name -string - required

```
admin
```

```
env get var "[var1]"
```

```
mentdb
```

```
15
```

env exist var <varName>

Description

To check if a variable exist into the environment

Parameters

varName: The variable name -string - required

```
admin
```

```
env exist var "[var1]"
```

```
mentdb
```

```
1
```

env del var <varName>

Description

To delete a variable from the environment

Parameters

varName: The variable name -string - required

```
admin
```

```
env del var "[var1]"
```

```
mentdb
```

```
Variable deleted with successful.
```

env show

Description

To show the environment variable

```
admin
```

```
env show
```

```
mentdb
```

```
{<br>  "[err]": "1: your messffage ...",<br>  "[var2)": "16",<br>  "[i)": "45",<br>  "[ERR(
```

Excel

- Work with Excel document.

excel load	excel load empty
excel show	excel save
excel exist	excel sheet add
excel sheet delete	excel sheet max row
excel sheet show	excel cell get
excel cell eval	excel cell ref
excel cell set	excel cell format
excel close	excel close all
excel build_in format	

excel load <excellid> <path>

Description

Load an Excel document.

Parameters

excellid: The excel id -string - required
path: The file path -string - required

```
admin
excel load "excelId" "/Users/jimmitry/Desktop/test.xls"

mentdb
1
```

excel load empty <excellid>

Description

Load an empty Excel document.

Parameters

excellid: The excel id -string - required

```
admin
excel load empty "excelId"

mentdb
1
```

excel show

Description

All loaded Excel document.

```
admin
excel show

mentdb
["excelId"]
```

excel save <excelId> <path>

Description

Save an Excel document into a xls file.

Parameters

excelId: The excel id -string - required

path: The file path -string - required

```
admin
excel save "excelId" "/Users/jimmitry/Desktop/test.xls"

mentdb
1
```

excel exist <excelId>

Description

Check if an Excel document already loaded.

Parameters

excelId: The excel id -string - required

```
admin
excel exist "excelId"

mentdb
1
```

excel sheet add <excelId> <sheetName>

Description

Add a new sheet into an excel document.

Parameters

excelId: The excel id -string - required

sheetName: The sheet name -string - required

```
admin
excel sheet add "excelId" "sheet2"
```

```
mentdb
```

```
1
```

excel sheet delete <excelId> <sheetName>

Description

Delete a sheet from an excel document.

Parameters

excelId: The excel id -string - required

sheetName: The sheet name -string - required

```
admin
excel sheet delete "excelId" "sheet2"
```

```
mentdb
```

```
1
```

excel sheet max_row <excelId> <sheetName>

Description

Get a max row for a specific sheet.

Parameters

excelId: The excel id -string - required

sheetName: The sheet name -string - required

```
admin
excel sheet max_row "excelId" "sheet2"
```

```
mentdb
```

```
432
```

excel sheet show <excelId>

Description

Get all sheets from an Excel document.

Parameters

excelId: The excel id -string - required

```
admin
excel sheet show "excelId"
```

```
mentdb
```

```
[ "sheet2" ]
```

excel cell get <excelId> <sheetName> <rowIndex> <colIndex>

Description

Get a cell value.

Parameters

excelId: The excel id -string - required
sheetName: The sheet name -string - required
rowIndex: The row index -number - required
collIndex: The col index -number - required

```
admin
excel cell get "excelId" "sheet1" 1 1

mentdb
25
```

excel cell eval <excelId> <sheetName> <rowIndex> <colIndex>

Description

Eval a cell.

Parameters

excelId: The excel id -string - required
sheetName: The sheet name -string - required
rowIndex: The row index -number - required
collIndex: The col index -number - required

```
admin
excel cell eval "excelId" "sheet1" 1 1

mentdb
25
```

excel cell ref <cell>

Description

Get a cell reference.

Parameters

cell: The cell (ex: Z3) -string - required

```
admin
excel cell ref "Z3"

mentdb
{"col": 25, "row": 2}
```

excel cell set <excelId> <sheetName> <rowIndex> <colIndex> <value> <type>

Description

Set a value into a cell.

Parameters

excelId: The excel id -string - required
sheetName: The sheet name -string - required
rowIndex: The row index -number - required
collIndex: The col index -number - required
value: The value -string - required
type: The type (STR|NUM|BOOL|DATETIME|FORMULA|BLANK) -string - required

```
admin
excel cell set "excelId" "sheet1" 1 1 "value" STR|NUM|BOOL|DATETIME|FORMULA|BLANK

mentdb
1
```

```
admin
excel close_all;
excel load empty "excelId";
excel sheet add "excelId" "sheet1";
excel cell set "excelId" "sheet1" 1 1 "str" STR;
excel cell set "excelId" "sheet1" 1 2 ".3478" NUM;
excel cell set "excelId" "sheet1" 1 3 true BOOL;
excel cell set "excelId" "sheet1" 1 4 (date systimestamp;) DATETIME;
excel cell set "excelId" "sheet1" 1 5 "C2+1" FORMULA;
excel cell set "excelId" "sheet1" 1 6 "" BLANK;
excel save "excelId" "/Users/jimmitry/Desktop/test.xls";
```

```
mentdb
1
```

excel cell format <excelId> <sheetName> <rowIndex> <collIndex> <format> <config>

Description

Set the format for a cell.

Parameters

excelId: The excel id -string - required
sheetName: The sheet name -string - required
rowIndex: The row index -number - required
collIndex: The col index -number - required
format: The format (example: 'm/d/yy h:mm' | '0%' ...) -string - required
config: The json format configuration -string - required

```
admin
json load "style" "{}";

json iobject "style" / "HorizontalAlignment" "CENTER" STR;
json iobject "style" / "HorizontalAlignment" "CENTER_SELECTION" STR;
json iobject "style" / "HorizontalAlignment" "DISTRIBUTED" STR;
json iobject "style" / "HorizontalAlignment" "FILL" STR;
json iobject "style" / "HorizontalAlignment" "GENERAL" STR;
json iobject "style" / "HorizontalAlignment" "JUSTIFY" STR;
json iobject "style" / "HorizontalAlignment" "LEFT" STR;
json iobject "style" / "HorizontalAlignment" "RIGHT" STR;

json iobject "style" / "VerticalAlignment" "BOTTOM" STR;
json iobject "style" / "VerticalAlignment" "TOP" STR;
```

```
json iobject "style" / "VerticalAlignment" "DISTRIBUTED" STR;
json iobject "style" / "VerticalAlignment" "JUSTIFY" STR;
json iobject "style" / "VerticalAlignment" "CENTER" STR;

json iobject "style" / "BorderBottom" "DASH_DOT" STR;
json iobject "style" / "BorderBottom" "DASH_DOT_DOT" STR;
json iobject "style" / "BorderBottom" "DASHED" STR;
json iobject "style" / "BorderBottom" "DOTTED" STR;
json iobject "style" / "BorderBottom" "DOUBLE" STR;
json iobject "style" / "BorderBottom" "HAIR" STR;
json iobject "style" / "BorderBottom" "MEDIUM" STR;
json iobject "style" / "BorderBottom" "MEDIUM_DASH_DOT" STR;
json iobject "style" / "BorderBottom" "MEDIUM_DASH_DOT_DOT" STR;
json iobject "style" / "BorderBottom" "MEDIUM_DASHED" STR;
json iobject "style" / "BorderBottom" "NONE" STR;
json iobject "style" / "BorderBottom" "SLANTED_DASH_DOT" STR;
json iobject "style" / "BorderBottom" "THICK" STR;
json iobject "style" / "BorderBottom" "THIN" STR;

json iobject "style" / "BorderTop" "DASH_DOT" STR;
json iobject "style" / "BorderTop" "DASH_DOT_DOT" STR;
json iobject "style" / "BorderTop" "DASHED" STR;
json iobject "style" / "BorderTop" "DOTTED" STR;
json iobject "style" / "BorderTop" "DOUBLE" STR;
json iobject "style" / "BorderTop" "HAIR" STR;
json iobject "style" / "BorderTop" "MEDIUM" STR;
json iobject "style" / "BorderTop" "MEDIUM_DASH_DOT" STR;
json iobject "style" / "BorderTop" "MEDIUM_DASH_DOT_DOT" STR;
json iobject "style" / "BorderTop" "MEDIUM_DASHED" STR;
json iobject "style" / "BorderTop" "NONE" STR;
json iobject "style" / "BorderTop" "SLANTED_DASH_DOT" STR;
json iobject "style" / "BorderTop" "THICK" STR;
json iobject "style" / "BorderTop" "THIN" STR;

json iobject "style" / "BorderLeft" "DASH_DOT" STR;
json iobject "style" / "BorderLeft" "DASH_DOT_DOT" STR;
json iobject "style" / "BorderLeft" "DASHED" STR;
json iobject "style" / "BorderLeft" "DOTTED" STR;
json iobject "style" / "BorderLeft" "DOUBLE" STR;
json iobject "style" / "BorderLeft" "HAIR" STR;
json iobject "style" / "BorderLeft" "MEDIUM" STR;
json iobject "style" / "BorderLeft" "MEDIUM_DASH_DOT" STR;
json iobject "style" / "BorderLeft" "MEDIUM_DASH_DOT_DOT" STR;
json iobject "style" / "BorderLeft" "MEDIUM_DASHED" STR;
json iobject "style" / "BorderLeft" "NONE" STR;
json iobject "style" / "BorderLeft" "SLANTED_DASH_DOT" STR;
json iobject "style" / "BorderLeft" "THICK" STR;
json iobject "style" / "BorderLeft" "THIN" STR;

json iobject "style" / "BorderRight" "DASH_DOT" STR;
json iobject "style" / "BorderRight" "DASH_DOT_DOT" STR;
json iobject "style" / "BorderRight" "DASHED" STR;
json iobject "style" / "BorderRight" "DOTTED" STR;
json iobject "style" / "BorderRight" "DOUBLE" STR;
json iobject "style" / "BorderRight" "HAIR" STR;
json iobject "style" / "BorderRight" "MEDIUM" STR;
json iobject "style" / "BorderRight" "MEDIUM_DASH_DOT" STR;
json iobject "style" / "BorderRight" "MEDIUM_DASH_DOT_DOT" STR;
json iobject "style" / "BorderRight" "MEDIUM_DASHED" STR;
json iobject "style" / "BorderRight" "NONE" STR;
json iobject "style" / "BorderRight" "SLANTED_DASH_DOT" STR;
json iobject "style" / "BorderRight" "THICK" STR;
json iobject "style" / "BorderRight" "THIN" STR;

json iobject "style" / "BottomBorderColor" "0,0,0" STR;
json iobject "style" / "LeftBorderColor" "0,0,0" STR;
json iobject "style" / "RightBorderColor" "0,0,0" STR;
json iobject "style" / "TopBorderColor" "0,0,0" STR;
```

```
json iobject "style" / "Hidden" false STR;
json iobject "style" / "Locked" false STR;
json iobject "style" / "QuotePrefixed" false STR;
json iobject "style" / "ShrinkToFit" false STR;
json iobject "style" / "WrapText" false STR;

json iobject "style" / "Font" "{}" OBJ;
json iobject "style" /Font "fontName" "Arial" STR;
json iobject "style" /Font "size" 16 STR;
json iobject "style" /Font "color" "255,0,0" STR;
json iobject "style" /Font "bold" true STR;
json iobject "style" /Font "italic" true STR;

json iobject "style" / "Rotation" 90 STR;

json iobject "style" / "FillPattern" "solid_foreground" STR;
json iobject "style" / "FillPattern" "alt_bars" STR;
json iobject "style" / "FillPattern" "big_spots" STR;
json iobject "style" / "FillPattern" "bricks" STR;
json iobject "style" / "FillPattern" "diamonds" STR;
json iobject "style" / "FillPattern" "fine_dots" STR;
json iobject "style" / "FillPattern" "least_dots" STR;
json iobject "style" / "FillPattern" "less_dots" STR;
json iobject "style" / "FillPattern" "no_fill" STR;
json iobject "style" / "FillPattern" "sparse_dots" STR;
json iobject "style" / "FillPattern" "squares" STR;
json iobject "style" / "FillPattern" "thick_backward_diag" STR;
json iobject "style" / "FillPattern" "thick_forward_diag" STR;
json iobject "style" / "FillPattern" "thick_horz_bands" STR;
json iobject "style" / "FillPattern" "thick_vert_bands" STR;
json iobject "style" / "FillPattern" "thin_backward_diag" STR;
json iobject "style" / "FillPattern" "thin_forward_diag" STR;
json iobject "style" / "FillPattern" "thin_horz_bands" STR;
json iobject "style" / "FillPattern" "thin_vert_bands" STR;

json iobject "style" / "FillForegroundColor" "AQUA" STR;
json iobject "style" / "FillForegroundColor" "AUTOMATIC" STR;
json iobject "style" / "FillForegroundColor" "BLACK" STR;
json iobject "style" / "FillForegroundColor" "BLUE" STR;
json iobject "style" / "FillForegroundColor" "BLUE_GREY" STR;
json iobject "style" / "FillForegroundColor" "BRIGHT_GREEN" STR;
json iobject "style" / "FillForegroundColor" "BROWN" STR;
json iobject "style" / "FillForegroundColor" "CORAL" STR;
json iobject "style" / "FillForegroundColor" "CORNFLOWER_BLUE" STR;
json iobject "style" / "FillForegroundColor" "DARK_BLUE" STR;
json iobject "style" / "FillForegroundColor" "DARK_GREEN" STR;
json iobject "style" / "FillForegroundColor" "DARK_RED" STR;
json iobject "style" / "FillForegroundColor" "DARK_TEAL" STR;
json iobject "style" / "FillForegroundColor" "DARK_YELLOW" STR;
json iobject "style" / "FillForegroundColor" "GOLD" STR;
json iobject "style" / "FillForegroundColor" "GREEN" STR;
json iobject "style" / "FillForegroundColor" "GREY_25_PERCENT" STR;
json iobject "style" / "FillForegroundColor" "GREY_40_PERCENT" STR;
json iobject "style" / "FillForegroundColor" "GREY_50_PERCENT" STR;
json iobject "style" / "FillForegroundColor" "GREY_80_PERCENT" STR;
json iobject "style" / "FillForegroundColor" "INDIGO" STR;
json iobject "style" / "FillForegroundColor" "LAVENDER" STR;
json iobject "style" / "FillForegroundColor" "LEMON_CHIFFON" STR;
json iobject "style" / "FillForegroundColor" "LIGHT_BLUE" STR;
json iobject "style" / "FillForegroundColor" "LIGHT_CORNFLOWER_BLUE" STR;
json iobject "style" / "FillForegroundColor" "LIGHT_GREEN" STR;
json iobject "style" / "FillForegroundColor" "LIGHT_ORANGE" STR;
json iobject "style" / "FillForegroundColor" "LIGHT_TURQUOISE" STR;
json iobject "style" / "FillForegroundColor" "LIGHT_YELLOW" STR;
json iobject "style" / "FillForegroundColor" "LIME" STR;
json iobject "style" / "FillForegroundColor" "MAROON" STR;
json iobject "style" / "FillForegroundColor" "OLIVE_GREEN" STR;
```

```
        json iobject "style" / "FillForegroundColor" "ORANGE" STR;
json iobject "style" / "FillForegroundColor" "ORCHID" STR;
json iobject "style" / "FillForegroundColor" "PALE_BLUE" STR;
json iobject "style" / "FillForegroundColor" "PINK" STR;
json iobject "style" / "FillForegroundColor" "PLUM" STR;
json iobject "style" / "FillForegroundColor" "RED" STR;
json iobject "style" / "FillForegroundColor" "ROSE" STR;
json iobject "style" / "FillForegroundColor" "ROYAL_BLUE" STR;
json iobject "style" / "FillForegroundColor" "SEA_GREEN" STR;
json iobject "style" / "FillForegroundColor" "SKY_BLUE" STR;
json iobject "style" / "FillForegroundColor" "TAN" STR;
json iobject "style" / "FillForegroundColor" "TEAL" STR;
json iobject "style" / "FillForegroundColor" "TURQUOISE" STR;
json iobject "style" / "FillForegroundColor" "VIOLET" STR;
json iobject "style" / "FillForegroundColor" "WHITE" STR;
json iobject "style" / "FillForegroundColor" "YELLOW" STR;

json iobject "style" / "FillBackgroundColor" "AQUA" STR;
json iobject "style" / "FillBackgroundColor" "AUTOMATIC" STR;
json iobject "style" / "FillBackgroundColor" "BLACK" STR;
json iobject "style" / "FillBackgroundColor" "BLUE" STR;
json iobject "style" / "FillBackgroundColor" "BLUE_GREY" STR;
json iobject "style" / "FillBackgroundColor" "BRIGHT_GREEN" STR;
json iobject "style" / "FillBackgroundColor" "BROWN" STR;
json iobject "style" / "FillBackgroundColor" "CORAL" STR;
json iobject "style" / "FillBackgroundColor" "CORNFLOWER_BLUE" STR;
json iobject "style" / "FillBackgroundColor" "DARK_BLUE" STR;
json iobject "style" / "FillBackgroundColor" "DARK_GREEN" STR;
json iobject "style" / "FillBackgroundColor" "DARK_RED" STR;
json iobject "style" / "FillBackgroundColor" "DARK_TEAL" STR;
json iobject "style" / "FillBackgroundColor" "DARK_YELLOW" STR;
json iobject "style" / "FillBackgroundColor" "GOLD" STR;
json iobject "style" / "FillBackgroundColor" "GREEN" STR;
json iobject "style" / "FillBackgroundColor" "GREY_25_PERCENT" STR;
json iobject "style" / "FillBackgroundColor" "GREY_40_PERCENT" STR;
json iobject "style" / "FillBackgroundColor" "GREY_50_PERCENT" STR;
json iobject "style" / "FillBackgroundColor" "GREY_80_PERCENT" STR;
json iobject "style" / "FillBackgroundColor" "INDIGO" STR;
json iobject "style" / "FillBackgroundColor" "LAVENDER" STR;
json iobject "style" / "FillBackgroundColor" "LEMON_CHIFFON" STR;
json iobject "style" / "FillBackgroundColor" "LIGHT_BLUE" STR;
json iobject "style" / "FillBackgroundColor" "LIGHT_CORNFLOWER_BLUE" STR;
json iobject "style" / "FillBackgroundColor" "LIGHT_GREEN" STR;
json iobject "style" / "FillBackgroundColor" "LIGHT_ORANGE" STR;
json iobject "style" / "FillBackgroundColor" "LIGHT_TURQUOISE" STR;
json iobject "style" / "FillBackgroundColor" "LIGHT_YELLOW" STR;
json iobject "style" / "FillBackgroundColor" "LIME" STR;
json iobject "style" / "FillBackgroundColor" "MAROON" STR;
json iobject "style" / "FillBackgroundColor" "OLIVE_GREEN" STR;
json iobject "style" / "FillBackgroundColor" "ORANGE" STR;
json iobject "style" / "FillBackgroundColor" "ORCHID" STR;
json iobject "style" / "FillBackgroundColor" "PALE_BLUE" STR;
json iobject "style" / "FillBackgroundColor" "PINK" STR;
json iobject "style" / "FillBackgroundColor" "PLUM" STR;
json iobject "style" / "FillBackgroundColor" "RED" STR;
json iobject "style" / "FillBackgroundColor" "ROSE" STR;
json iobject "style" / "FillBackgroundColor" "ROYAL_BLUE" STR;
json iobject "style" / "FillBackgroundColor" "SEA_GREEN" STR;
json iobject "style" / "FillBackgroundColor" "SKY_BLUE" STR;
json iobject "style" / "FillBackgroundColor" "TAN" STR;
json iobject "style" / "FillBackgroundColor" "TEAL" STR;
json iobject "style" / "FillBackgroundColor" "TURQUOISE" STR;
json iobject "style" / "FillBackgroundColor" "VIOLET" STR;
json iobject "style" / "FillBackgroundColor" "WHITE" STR;
json iobject "style" / "FillBackgroundColor" "YELLOW" STR;
excel cell format "excelId" "sheet1" 1 1 "@" (json doc "style")
```

excel close <excellid>

Description

Close an Excel document.

Parameters

excellid: The excel id -string - required

```
admin
excel close "excellId"

mentdb
1
```

excel close_all

Description

Close all Excel documents.

```
admin
excel close_all

mentdb
1
```

excel build_in_format

Description

Show all build in format.

```
admin
excel build_in_format

mentdb
[<br>  "General",<br>  "0",<br>  "0.00",<br>  "#,##0",<br>  "#,##0.00",<br>  "\$#\##0_")
```

Excelx

- Work with Excelx document.

excelx load	excelx load empty
excelx show	excelx save
excelx exist	excelx sheet add
excelx sheet delete	excelx sheet max_row
excelx sheet show	excelx cell get
excelx cell eval	excelx cell ref
excelx cell set	excelx cell format
excelx close	excelx close_all

excelx load <excelId> <path>

Description

Load an Excelx document.

Parameters

excelId: The excel id -string - required
path: The file path -string - required

```
admin
excelx load "excelId" "/Users/jimmitry/Desktop/test.xlsx"

mentdb
1
```

excelx load empty <excelId>

Description

Load an empty Excelx document.

Parameters

excelId: The excel id -string - required

```
admin
excelx load empty "excelId"

mentdb
1
```

excelx show

Description

All loaded Excelx document.

```
admin
excelx show

mentdb
[ "excelId" ]
```

excelx save <excelId> <path>

Description

Save an Excelx document into a xlsx file.

Parameters

excelId: The excel id -string - required
path: The file path -string - required

```
admin
excelx save "excelId" "/Users/jimmitry/Desktop/test.xlsx"

mentdb
1
```

excelx exist <excelId>

Description

Check if an Excelx document already loaded.

Parameters

excelId: The excel id -string - required

```
admin
excelx exist "excelId"

mentdb
1
```

excelx sheet add <excelId> <sheetName>

Description

Add a new sheet into an excelx document.

Parameters

excelId: The excel id -string - required
sheetName: The sheet name -string - required

```
admin
excelx sheet add "excelId" "sheet2"

mentdb
1
```

excelx sheet delete <excelId> <sheetName>

Description

Delete a sheet from an excelx document.

Parameters

excelId: The excel id -string - required
sheetName: The sheet name -string - required

```
admin
excelx sheet delete "excelId" "sheet2"

mentdb
1
```

excelx sheet max_row <excelId> <sheetName>

Description

Get a max row for a specific sheet.

Parameters

excelId: The excel id -string - required
sheetName: The sheet name -string - required

```
admin
excelx sheet max_row "excelId" "sheet2"

mentdb
432
```

excelx sheet show <excelId>

Description

Get all sheets from an Excelx document.

Parameters

excelId: The excel id -string - required

```
admin
excelx sheet show "excelId"

mentdb
[ "sheet2" ]
```

excelx cell get <excelId> <sheetName> <rowIndex> <colIndex>

Description

Get a cell value.

Parameters

excelId: The excel id -string - required
sheetName: The sheet name -string - required
rowIndex: The row index -number - required
collIndex: The col index -number - required

```
admin
excelx cell get "excelId" "sheet1" 1 1

mentdb
25
```

excelx cell eval <excelId> <sheetName> <rowIndex> <colIndex>

Description

Eval a cell.

Parameters

excelId: The excel id -string - required
sheetName: The sheet name -string - required
rowIndex: The row index -number - required
collIndex: The col index -number - required

```
admin
excelx cell eval "excelId" "sheet1" 1 1

mentdb
25
```

excelx cell ref <cell>

Description

Get a cell reference.

Parameters

cell: The cell (ex: Z3) -string - required

```
admin
excelx cell ref "z3"

mentdb
{"col": 25, "row": 2}
```

excelx cell set <excelId> <sheetName> <rowIndex> <colIndex> <value> <type>

Description

Set a value into a cell.

Parameters

excelId: The excel id -string - required
sheetName: The sheet name -string - required
rowIndex: The row index -number - required
collIndex: The col index -number - required
value: The value -string - required
type: The type (STR|NUM|BOOL|DATETIME|FORMULA|BLANK) -string - required

```
admin
excelx cell set "excelId" "sheet1" 1 1 "value" STR|NUM|BOOL|DATETIME|FORMULA|BLANK

mentdb
1
```

```
admin
excelx close_all;
excelx load empty "excelId";
excelx sheet add "excelId" "sheet1";
excelx cell set "excelId" "sheet1" 1 1 "str" STR;
excelx cell set "excelId" "sheet1" 1 2 ".3478" NUM;
excelx cell set "excelId" "sheet1" 1 3 true BOOL;
excelx cell set "excelId" "sheet1" 1 4 (date systimestamp;) DATETIME;
excelx cell set "excelId" "sheet1" 1 5 "C2+1" FORMULA;
excelx cell set "excelId" "sheet1" 1 6 "" BLANK;
excelx save "excelId" "/Users/jimmitry/Desktop/test.xlsx";

mentdb
1
```

excelx cell format <excelId> <sheetName> <rowIndex> <collIndex> <format> <config>

Description

Set the format for a cell.

Parameters

excelId: The excel id -string - required
sheetName: The sheet name -string - required
rowIndex: The row index -number - required
collIndex: The col index -number - required
format: The format (example: 'm/d/yy h:mm' | '0%' ...) -string - required
config: The json format configuration -string - required

```
admin
json load "style" "{}";

json iobject "style" / "HorizontalAlignment" "CENTER" STR;
json iobject "style" / "HorizontalAlignment" "CENTER_SELECTION" STR;
json iobject "style" / "HorizontalAlignment" "DISTRIBUTED" STR;
json iobject "style" / "HorizontalAlignment" "FILL" STR;
json iobject "style" / "HorizontalAlignment" "GENERAL" STR;
json iobject "style" / "HorizontalAlignment" "JUSTIFY" STR;
json iobject "style" / "HorizontalAlignment" "LEFT" STR;
json iobject "style" / "HorizontalAlignment" "RIGHT" STR;

json iobject "style" / "VerticalAlignment" "BOTTOM" STR;
json iobject "style" / "VerticalAlignment" "TOP" STR;
```

```
json iobject "style" / "VerticalAlignment" "DISTRIBUTED" STR;
json iobject "style" / "VerticalAlignment" "JUSTIFY" STR;
json iobject "style" / "VerticalAlignment" "CENTER" STR;

json iobject "style" / "BorderBottom" "DASH_DOT" STR;
json iobject "style" / "BorderBottom" "DASH_DOT_DOT" STR;
json iobject "style" / "BorderBottom" "DASHED" STR;
json iobject "style" / "BorderBottom" "DOTTED" STR;
json iobject "style" / "BorderBottom" "DOUBLE" STR;
json iobject "style" / "BorderBottom" "HAIR" STR;
json iobject "style" / "BorderBottom" "MEDIUM" STR;
json iobject "style" / "BorderBottom" "MEDIUM_DASH_DOT" STR;
json iobject "style" / "BorderBottom" "MEDIUM_DASH_DOT_DOT" STR;
json iobject "style" / "BorderBottom" "MEDIUM_DASHED" STR;
json iobject "style" / "BorderBottom" "NONE" STR;
json iobject "style" / "BorderBottom" "SLANTED_DASH_DOT" STR;
json iobject "style" / "BorderBottom" "THICK" STR;
json iobject "style" / "BorderBottom" "THIN" STR;

json iobject "style" / "BorderTop" "DASH_DOT" STR;
json iobject "style" / "BorderTop" "DASH_DOT_DOT" STR;
json iobject "style" / "BorderTop" "DASHED" STR;
json iobject "style" / "BorderTop" "DOTTED" STR;
json iobject "style" / "BorderTop" "DOUBLE" STR;
json iobject "style" / "BorderTop" "HAIR" STR;
json iobject "style" / "BorderTop" "MEDIUM" STR;
json iobject "style" / "BorderTop" "MEDIUM_DASH_DOT" STR;
json iobject "style" / "BorderTop" "MEDIUM_DASH_DOT_DOT" STR;
json iobject "style" / "BorderTop" "MEDIUM_DASHED" STR;
json iobject "style" / "BorderTop" "NONE" STR;
json iobject "style" / "BorderTop" "SLANTED_DASH_DOT" STR;
json iobject "style" / "BorderTop" "THICK" STR;
json iobject "style" / "BorderTop" "THIN" STR;

json iobject "style" / "BorderLeft" "DASH_DOT" STR;
json iobject "style" / "BorderLeft" "DASH_DOT_DOT" STR;
json iobject "style" / "BorderLeft" "DASHED" STR;
json iobject "style" / "BorderLeft" "DOTTED" STR;
json iobject "style" / "BorderLeft" "DOUBLE" STR;
json iobject "style" / "BorderLeft" "HAIR" STR;
json iobject "style" / "BorderLeft" "MEDIUM" STR;
json iobject "style" / "BorderLeft" "MEDIUM_DASH_DOT" STR;
json iobject "style" / "BorderLeft" "MEDIUM_DASH_DOT_DOT" STR;
json iobject "style" / "BorderLeft" "MEDIUM_DASHED" STR;
json iobject "style" / "BorderLeft" "NONE" STR;
json iobject "style" / "BorderLeft" "SLANTED_DASH_DOT" STR;
json iobject "style" / "BorderLeft" "THICK" STR;
json iobject "style" / "BorderLeft" "THIN" STR;

json iobject "style" / "BorderRight" "DASH_DOT" STR;
json iobject "style" / "BorderRight" "DASH_DOT_DOT" STR;
json iobject "style" / "BorderRight" "DASHED" STR;
json iobject "style" / "BorderRight" "DOTTED" STR;
json iobject "style" / "BorderRight" "DOUBLE" STR;
json iobject "style" / "BorderRight" "HAIR" STR;
json iobject "style" / "BorderRight" "MEDIUM" STR;
json iobject "style" / "BorderRight" "MEDIUM_DASH_DOT" STR;
json iobject "style" / "BorderRight" "MEDIUM_DASH_DOT_DOT" STR;
json iobject "style" / "BorderRight" "MEDIUM_DASHED" STR;
json iobject "style" / "BorderRight" "NONE" STR;
json iobject "style" / "BorderRight" "SLANTED_DASH_DOT" STR;
json iobject "style" / "BorderRight" "THICK" STR;
json iobject "style" / "BorderRight" "THIN" STR;

json iobject "style" / "BottomBorderColor" "0,0,0" STR;
json iobject "style" / "LeftBorderColor" "0,0,0" STR;
json iobject "style" / "RightBorderColor" "0,0,0" STR;
json iobject "style" / "TopBorderColor" "0,0,0" STR;
```

```
json iobject "style" / "Hidden" false STR;
json iobject "style" / "Locked" false STR;
json iobject "style" / "QuotePrefixed" false STR;
json iobject "style" / "ShrinkToFit" false STR;
json iobject "style" / "WrapText" false STR;

json iobject "style" / "Font" "{}" OBJ;
json iobject "style" /Font "fontName" "Arial" STR;
json iobject "style" /Font "size" 16 STR;
json iobject "style" /Font "color" "255,0,0" STR;
json iobject "style" /Font "bold" true STR;
json iobject "style" /Font "italic" true STR;

json iobject "style" / "Rotation" 90 STR;

json iobject "style" / "FillPattern" "solid_foreground" STR;
json iobject "style" / "FillPattern" "alt_bars" STR;
json iobject "style" / "FillPattern" "big_spots" STR;
json iobject "style" / "FillPattern" "bricks" STR;
json iobject "style" / "FillPattern" "diamonds" STR;
json iobject "style" / "FillPattern" "fine_dots" STR;
json iobject "style" / "FillPattern" "least_dots" STR;
json iobject "style" / "FillPattern" "less_dots" STR;
json iobject "style" / "FillPattern" "no_fill" STR;
json iobject "style" / "FillPattern" "sparse_dots" STR;
json iobject "style" / "FillPattern" "squares" STR;
json iobject "style" / "FillPattern" "thick_backward_diag" STR;
json iobject "style" / "FillPattern" "thick_forward_diag" STR;
json iobject "style" / "FillPattern" "thick_horz_bands" STR;
json iobject "style" / "FillPattern" "thick_vert_bands" STR;
json iobject "style" / "FillPattern" "thin_backward_diag" STR;
json iobject "style" / "FillPattern" "thin_forward_diag" STR;
json iobject "style" / "FillPattern" "thin_horz_bands" STR;
json iobject "style" / "FillPattern" "thin_vert_bands" STR;

json iobject "style" / "FillForegroundColor" "AQUA" STR;
json iobject "style" / "FillForegroundColor" "AUTOMATIC" STR;
json iobject "style" / "FillForegroundColor" "BLACK" STR;
json iobject "style" / "FillForegroundColor" "BLUE" STR;
json iobject "style" / "FillForegroundColor" "BLUE_GREY" STR;
json iobject "style" / "FillForegroundColor" "BRIGHT_GREEN" STR;
json iobject "style" / "FillForegroundColor" "BROWN" STR;
json iobject "style" / "FillForegroundColor" "CORAL" STR;
json iobject "style" / "FillForegroundColor" "CORNFLOWER_BLUE" STR;
json iobject "style" / "FillForegroundColor" "DARK_BLUE" STR;
json iobject "style" / "FillForegroundColor" "DARK_GREEN" STR;
json iobject "style" / "FillForegroundColor" "DARK_RED" STR;
json iobject "style" / "FillForegroundColor" "DARK_TEAL" STR;
json iobject "style" / "FillForegroundColor" "DARK_YELLOW" STR;
json iobject "style" / "FillForegroundColor" "GOLD" STR;
json iobject "style" / "FillForegroundColor" "GREEN" STR;
json iobject "style" / "FillForegroundColor" "GREY_25_PERCENT" STR;
json iobject "style" / "FillForegroundColor" "GREY_40_PERCENT" STR;
json iobject "style" / "FillForegroundColor" "GREY_50_PERCENT" STR;
json iobject "style" / "FillForegroundColor" "GREY_80_PERCENT" STR;
json iobject "style" / "FillForegroundColor" "INDIGO" STR;
json iobject "style" / "FillForegroundColor" "LAVENDER" STR;
json iobject "style" / "FillForegroundColor" "LEMON_CHIFFON" STR;
json iobject "style" / "FillForegroundColor" "LIGHT_BLUE" STR;
json iobject "style" / "FillForegroundColor" "LIGHT_CORNFLOWER_BLUE" STR;
json iobject "style" / "FillForegroundColor" "LIGHT_GREEN" STR;
json iobject "style" / "FillForegroundColor" "LIGHT_ORANGE" STR;
json iobject "style" / "FillForegroundColor" "LIGHT_TURQUOISE" STR;
json iobject "style" / "FillForegroundColor" "LIGHT_YELLOW" STR;
json iobject "style" / "FillForegroundColor" "LIME" STR;
json iobject "style" / "FillForegroundColor" "MAROON" STR;
json iobject "style" / "FillForegroundColor" "OLIVE_GREEN" STR;
```

```
        json iobject "style" / "FillForegroundColor" "ORANGE" STR;
        json iobject "style" / "FillForegroundColor" "ORCHID" STR;
        json iobject "style" / "FillForegroundColor" "PALE_BLUE" STR;
        json iobject "style" / "FillForegroundColor" "PINK" STR;
        json iobject "style" / "FillForegroundColor" "PLUM" STR;
        json iobject "style" / "FillForegroundColor" "RED" STR;
        json iobject "style" / "FillForegroundColor" "ROSE" STR;
        json iobject "style" / "FillForegroundColor" "ROYAL_BLUE" STR;
        json iobject "style" / "FillForegroundColor" "SEA_GREEN" STR;
        json iobject "style" / "FillForegroundColor" "SKY_BLUE" STR;
        json iobject "style" / "FillForegroundColor" "TAN" STR;
        json iobject "style" / "FillForegroundColor" "TEAL" STR;
        json iobject "style" / "FillForegroundColor" "TURQUOISE" STR;
        json iobject "style" / "FillForegroundColor" "VIOLET" STR;
        json iobject "style" / "FillForegroundColor" "WHITE" STR;
        json iobject "style" / "FillForegroundColor" "YELLOW" STR;

        json iobject "style" / "FillBackgroundColor" "AQUA" STR;
        json iobject "style" / "FillBackgroundColor" "AUTOMATIC" STR;
        json iobject "style" / "FillBackgroundColor" "BLACK" STR;
        json iobject "style" / "FillBackgroundColor" "BLUE" STR;
        json iobject "style" / "FillBackgroundColor" "BLUE_GREY" STR;
        json iobject "style" / "FillBackgroundColor" "BRIGHT_GREEN" STR;
        json iobject "style" / "FillBackgroundColor" "BROWN" STR;
        json iobject "style" / "FillBackgroundColor" "CORAL" STR;
        json iobject "style" / "FillBackgroundColor" "CORNFLOWER_BLUE" STR;
        json iobject "style" / "FillBackgroundColor" "DARK_BLUE" STR;
        json iobject "style" / "FillBackgroundColor" "DARK_GREEN" STR;
        json iobject "style" / "FillBackgroundColor" "DARK_RED" STR;
        json iobject "style" / "FillBackgroundColor" "DARK_TEAL" STR;
        json iobject "style" / "FillBackgroundColor" "DARK_YELLOW" STR;
        json iobject "style" / "FillBackgroundColor" "GOLD" STR;
        json iobject "style" / "FillBackgroundColor" "GREEN" STR;
        json iobject "style" / "FillBackgroundColor" "GREY_25_PERCENT" STR;
        json iobject "style" / "FillBackgroundColor" "GREY_40_PERCENT" STR;
        json iobject "style" / "FillBackgroundColor" "GREY_50_PERCENT" STR;
        json iobject "style" / "FillBackgroundColor" "GREY_80_PERCENT" STR;
        json iobject "style" / "FillBackgroundColor" "INDIGO" STR;
        json iobject "style" / "FillBackgroundColor" "LAVENDER" STR;
        json iobject "style" / "FillBackgroundColor" "LEMON_CHIFFON" STR;
        json iobject "style" / "FillBackgroundColor" "LIGHT_BLUE" STR;
        json iobject "style" / "FillBackgroundColor" "LIGHT_CORNFLOWER_BLUE" STR;
        json iobject "style" / "FillBackgroundColor" "LIGHT_GREEN" STR;
        json iobject "style" / "FillBackgroundColor" "LIGHT_ORANGE" STR;
        json iobject "style" / "FillBackgroundColor" "LIGHT_TURQUOISE" STR;
        json iobject "style" / "FillBackgroundColor" "LIGHT_YELLOW" STR;
        json iobject "style" / "FillBackgroundColor" "LIME" STR;
        json iobject "style" / "FillBackgroundColor" "MAROON" STR;
        json iobject "style" / "FillBackgroundColor" "OLIVE_GREEN" STR;
        json iobject "style" / "FillBackgroundColor" "ORANGE" STR;
        json iobject "style" / "FillBackgroundColor" "ORCHID" STR;
        json iobject "style" / "FillBackgroundColor" "PALE_BLUE" STR;
        json iobject "style" / "FillBackgroundColor" "PINK" STR;
        json iobject "style" / "FillBackgroundColor" "PLUM" STR;
        json iobject "style" / "FillBackgroundColor" "RED" STR;
        json iobject "style" / "FillBackgroundColor" "ROSE" STR;
        json iobject "style" / "FillBackgroundColor" "ROYAL_BLUE" STR;
        json iobject "style" / "FillBackgroundColor" "SEA_GREEN" STR;
        json iobject "style" / "FillBackgroundColor" "SKY_BLUE" STR;
        json iobject "style" / "FillBackgroundColor" "TAN" STR;
        json iobject "style" / "FillBackgroundColor" "TEAL" STR;
        json iobject "style" / "FillBackgroundColor" "TURQUOISE" STR;
        json iobject "style" / "FillBackgroundColor" "VIOLET" STR;
        json iobject "style" / "FillBackgroundColor" "WHITE" STR;
        json iobject "style" / "FillBackgroundColor" "YELLOW" STR;
    
```

mentdb

excelx close <excelId>

Description

Close an Excelx document.

Parameters

excelId: The excel id -string - required

```
admin
excelx close "excelId"

mentdb
1
```

excelx close_all

Description

Close all Excelx documents.

```
admin
excelx close_all

mentdb
1
```

[Home](#) > [MQL Functions](#)

External REST API

- You can call remote web services from MentDB.
- And trigger your REST web services in mental process executions.
- HTTP or HTTPS.

[rest http](#)

[rest http json post](#)

[rest https](#)

[rest https json post](#)

rest http <method> <beginUrl> <endUrl> <jsonHeaders> <jsonCookies>

Description

To execute a REST request through HTTP protocol

Parameters

method: The method (get|post|put|delete) -string - required

beginUrl: The begin url -string - required

endUrl: The end url -string - required

jsonHeaders: The json headers -string - required

jsonCookies: The json cookies -string - required

admin

```
rest http get "http://services.groupkt.com/country/get/all" "" "{}" "[]";
```

mentdb

```
{ "RestResponse" : { "messages" : [ "More webservices are available at http://www.grou
```

rest http_json_post <url> <jsonHeaders> <jsonCookies> <jsonData>

Description

To execute a REST request through HTTP protocol

Parameters

url: The url -string - required

jsonHeaders: The json headers -string - required

jsonCookies: The json cookies -string - required

jsonData: The json data -string - required

admin

```
rest http_json_post "http://services.groupkt.com/country/get/all" "{}" "[]" "{}";
```

mentdb

```
{}
```

rest https <method> <beginUrl> <endUrl> <jsonHeaders> <jsonCookies>

Description

To execute a REST request through HTTPS protocol

Parameters

method: The method (get|post|put|delete) -string - required

beginUrl: The begin url -string - required

endUrl: The end url -string - required

jsonHeaders: The json headers -string - required

jsonCookies: The json cookies -string - required

```
admin
#REST / example 1;
json load "header" "{}";
json iobject "header" / "x-user" "admin" STR;
json iobject "header" / "x-password" "pwd" STR;
rest https get "https://localhost:9999/api/addition" "v1=1&v2=6" (json doc "header") "[]";

#Website Browser / example 2;
json load "response_1" (rest https post "https://localhost:8083/demo/index.jsp" "x-user=sy");
json load "response_2" (rest https post "https://localhost:8083/demo/index.jsp" "x-user=sy");
json doc "response_2";

mentdb
{
    "reponse": "\u003c!doctype html\u003e\t\t\u003chtml lang\u003d\"fr\" style\u003d\u0027he:
    "reponse_header": [
        "Key : null ,Value : [HTTP/1.1 200 OK]",
        "Key : Server ,Value : [Jetty(9.2.2.v20140723)]",
        "Key : Content-Length ,Value : [5135]",
        "Key : Date ,Value : [Sun, 03 Nov 2019 14:43:42 GMT]",
        "Key : Content-Type ,Value : [text/html; charset\u003dUTF-8]"
    ],
    "cookies": []
}
```

rest https_json_post <url> <jsonHeaders> <jsonCookies> <jsonData>

Description

To execute a REST request through HTTPS protocol

Parameters

url: The url -string - required

jsonHeaders: The json headers -string - required

jsonCookies: The json cookies -string - required

jsonData: The json data -string - required

```
admin
rest https_json_post "https://services.groupkt.com/country/get/all" "{}" "[]" "{}";

mentdb
{}
```

External SOAP API

- You can call remote web services from MentDB.
- And trigger your SOAP web services in mental process executions.
- HTTP or HTTPS.

[soap http](#)[soap https](#)

soap http <url> <jsonHeader> <action> <contentType> <data>

Description

To execute a SOAP request through HTTP protocol

Parameters

url: The url -string - required
jsonHeader: The JSON header -string - required
action: The action name -string - required
contentType: The content type (text/xml; charset=utf-8) -string - required
data: The data (an XML file...) -string - required

```
admin
soap http "http://www.dneonline.com/calculator.asmx" "{}" "" "text/xml; charset=utf-8" "<soap:Envelope>
<soap:Header/>
<soap:Body>
<tem:Add>
<tem:intA>3</tem:intA>
<tem:intB>4</tem:intB>
</tem:Add>
</soap:Body>
</soap:Envelope>"
```



```
mentdb
"<?xml version=\"1.0\" encoding=\"utf-8\"?><soap:Envelope xmlns:soap=\"http://www.w3.org/2003/05/soap-envelope\"><soap:Header><!--[REDACTED]--</soap:Header><soap:Body><!--[REDACTED]--</soap:Body></soap:Envelope>"
```

soap https <url> <jsonHeader> <action> <contentType> <data>

Description

To execute a SOAP request through HTTPS protocol

Parameters

url: The url -string - required
jsonHeader: The JSON header -string - required
action: The action name -string - required
contentType: The content type (text/xml; charset=utf-8) -string - required
data: The data (an XML file...) -string - required

```
admin
soap https "https://www.dneonline.com/calculator.asmx" "{}" "" "text/xml; charset=utf-8" "
<soap:Header/>
<soap:Body>
  <tem:Add>
    <tem:intA>3</tem:intA>
    <tem:intB>4</tem:intB>
  </tem:Add>
</soap:Body>
</soap:Envelope>

mentdb
"<?xml version=\"1.0\" encoding=\"utf-8\"?><soap:Envelope xmlns:soap=\"http://www.w3.org/2003/05/soap-envelope\"><soap:Header><wsse:Security soap:mustUnderstand=\"1\"><wsse:UsernameToken wsse:mustUnderstand=\"1\"><wsse:Username>mentdb</wsse:Username><wsse:Password>mentdb</wsse:Password></wsse:UsernameToken></wsse:Security></soap:Header><soap:Body><calculator:Calculate><calculator:operator>+</calculator:operator><calculator:arg1>3</calculator:arg1><calculator:arg2>4</calculator:arg2></calculator:Calculate></soap:Body></soap:Envelope>
```

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File

- Like all languages, you have a few data manipulation functions.

file create	file append
file exist	file is_directory
file load	file count_line_dir
file count_lines	file meta_data
file cur_abs_dir	file cur_canonical_dir
file pwd	file size
file last_modified	file mkdir
file delete	file copy_dir
file copy_file	file copy_format
file ini	file ini_str
file dir_list	file dir_list_regex
file b64_read	file b64_write
file writer_open	file writer_exist
file writer_show	file writer_add_line
file writer_add_bytes	file writer_flush
file writer_close	file writer_closeall
file reader_open	file reader_exist
file reader_show	file reader_get_line
file reader_get_bytes	file reader_close
file reader_closeall	

file create <filePath> <data> <encoding>

Description

Create a new text file

Parameters

filePath: The path to the file -String - required
data: String data -String - required
encoding: The file encoding (ex: 'UTF-8') -String - not required

```
admin
file create "data/.id" (string generate_random_str 12;)

mentdb
1
```

```
admin
file create "data/.id" (string generate_random_str 12;) "utf-8"

mentdb
1
```

file append <filePath> <data> <encoding>

Description

Append a text into a file

Parameters

filePath: The path to the file -String - required
data: String data -String - required
encoding: The file encoding (ex: 'UTF-8') -String - not required

```
admin
file append "data/.id" (string generate_random_str 12;)

mentdb
1
```

```
admin
file append "data/.id" (string generate_random_str 12;) "utf-8"

mentdb
1
```

file exist <filePath>

Description

To check if a file already exist

Parameters

filePath: The path to the file -String - required

```
admin
file exist "data/.id"

mentdb
1
```

file is_directory <filePath>

Description

To check if a file is a directory

Parameters

filePath: The path to the file -String - required

```
admin
file is_directory "data/.id"

mentdb
0
```

file load <filePath> <encoding>

Description

To get text from a file

Parameters

filePath: The path to the file -String - required
encoding: The file encoding (ex: 'UTF-8') -String - not required

```
admin
file load "data/.id"

mentdb
XdoZMCbr6o7IUElQ8fDGqtVFoDAksJRRpxbk
```

```
admin
file load "data/.id" "UTF-8"

mentdb
2pvrPdmfuTrz
```

file count_line dir <dirPath> <endOfFile>

Description

Count the number of line in a directory

Parameters

dirPath: The directory -String - required
endOfFile: The end of file (ex: '.java') -String - required

```
admin
file count_line dir "/Users/jimmytry/Documents/jpayet/INNOV-AI/MENTDB" ".java"

mentdb
81354
```

file count_lines <filePath>

Description

Count the number of line in a file

Parameters

filePath: The path to the file -String - required

```
admin
file count_lines "data/.id"

mentdb
1
```

file meta_data <filePath> <attribute>

Description

Get meta data of a file

Parameters

filePath: The path to the file -String - required

attribute: The attribute (creationTime|lastAccessTime|lastModifiedTime|author) -String - required

```
admin
file meta_data "data/.id" "creationTime"

mentdb
2018-02-25T17:55:17Z
```

file cur_abs_dir

Description

Get the current absolute directory path

```
admin
file cur_abs_dir

mentdb
/Users/jimmitry/Documents/jpayet/INNOV-AI/MENTDB/MentDB_Server/.
```

file cur_canonical_dir

Description

Get the current canonical directory path

```
admin
file cur_canonical_dir

mentdb
/Users/jimmitry/Documents/jpayet/INNOV-AI/MENTDB/MentDB_Server
```

file pwd

Description

Get the current absolute directory path

```
admin
file pwd

mentdb
/Users/jimmitry/Documents/jpayet/INNOV-AI/MENTDB/MentDB_Server/.
```

file size <filePath>

Description

Get size in bytes of a file or a directory

Parameters

filePath: The path to the file -String - required

```
admin
file size "data/.id"

mentdb
36
```

file last_modified <filePath>

Description

Get last modified timestamp of a file or a directory

Parameters

filePath: The path to the file -String - required

```
admin
file last_modified "data/.id"

mentdb
2018-10-10 10:00:00
```

file mkdir <dirPath>

Description

Create a new directory

Parameters

dirPath: The path to the directory -String - required

```
admin
file mkdir "dir"

mentdb
1
```

file delete <path>

Description

Delete a file or a directory

Parameters

path: The path to the directory or to the file -String - required

```
admin
file delete "dir"

mentdb
1
```

file copy_dir <oldDirPath> <newDirPath>

Description

Copy a directory

Parameters

oldDirPath: The old directory path -String - required

newDirPath: The new directory path -String - required

```
admin
file copy_dir "logs" "logs2"

mentdb
1
```

```
admin
file delete "logs2"

mentdb
1
```

file copy_file <oldFilePath> <newFilePath>

Description

Copy a file

Parameters

oldFilePath: The old file path -String - required

newFilePath: The new file path -String - required

```
admin
file copy_file "read-me.txt" "read-me2.txt"

mentdb
1
```

```
admin
file delete "read-me2.txt"

mentdb
1
```

file copy_format <source> <sourceEncoding> <target> <targetEncoding>

Description

Copy a file to another format

Parameters

source: The source file path -String - required
sourceEncoding: The source file encoding (ex: 'UTF-8') -String - not required
target: The new file path -String - required
targetEncoding: The target file encoding (ex: 'UTF-8') -String - not required

```
admin
file copy_format "read-me.txt" "utf-8" "read-me2.txt" "utf-8"

mentdb
1
```

```
admin
file delete "read-me2.txt"

mentdb
1
```

file ini <path> <section> <field>

Description

Get a value in a configuration file (.INI file)

Parameters

path: The file path -String - required
section: The section -String - required
field: The field -String - required

```
admin
file ini "conf/server.conf" "AI" "FIRSTNAME"

mentdb
lisa
```

file ini_str <str> <section> <field>

Description

Get a value in a configuration string (.INI)

Parameters

str: The string config file -String - required
section: The section -String - required
field: The field -String - required

```
admin
file ini_str (file load "conf/server.conf") "AI" "FIRSTNAME"

mentdb
lisa
```

file dir_list <dirPath>

Description

List all files or folders in a directory

Parameters

dirPath: The path to the directory -String - required

```
admin
file dir_list "/Users/jimmitry/Documents/jpayet/INNOV-AI/MENTDB"

mentdb
[<br> ".DS_Store",<br> ".git",<br> ".gitignore",<br> ".metadata",<br> ".recommenders"
```

file dir_list_regex <dirPath> <regexFilter> <getFile> <getDirectory>

Description

List all files or folders in a directory with regex filter

Parameters

dirPath: The path to the directory -String - required
regexFilter: The regex expression -String - required
getFile: Get file or not -String - required
getDirectory: Get directory or not -String - required

```
admin
file dir_list_regex "/Users/jimmitry/Documents/jpayet/INNOV-AI/MENTDB" ".*.*" true true

mentdb
[<br> ".DS_Store",<br> ".git",<br> ".gitignore",<br> ".metadata",<br> ".recommenders"
```

file b64_read <filePath>

Description

This function allow you to get a binary file in base 64 format

Parameters

filePath: The path to the file -String - required

```
admin
file b64_read "data/.id"

mentdb
dWdmNjJPULzzMTkyMlk5eGd4R3I3SU5TM0pLSW1leWppeFph
```

file b64_write <dataB64> <filePath>

Description

This function allow you to write a binary file from a base 64 format

Parameters

dataB64: Data in base 64 -String - required
filePath: The path to the file -String - required

```
admin
file b64_write "dWdmNjJPULzzMTkyMlk5eGd4R3I3SU5TM0pLSW1leWppeFph" "data/.id"

mentdb
1
```

file writer_open <writerId> <filePath> <append> <type> <encoding>

Description

Open a writer

Parameters

writerId: The writer id -String - required
filePath: The file path -String - required
append: A boolean to activate the append mode -String - required
type: The type (TEXT|BINARY) -String - required
encoding: The encoding (ex: 'utf-8') -String - required

```
admin
file writer_open "w1" "file.txt" true TEXT "utf-8"

mentdb
1
```

```
admin
file writer_open "w2" "image.png" true BINARY null

mentdb
1
```

file writer_exist <writerId>

Description

Check if a writer is already opened

Parameters

writerId: The writer id -String - required

```
admin
file writer_exist "w1"

mentdb
1
```

file writer_show

Description

Show all writers

```
admin
file writer_show

mentdb
[<br>  "w1",<br>  "w2"<br>]
```

file writer_add_line <writerId> <str>

Description

Add a new line to a writer

Parameters

writerId: The writer id -String - required

str: The string to add -String - required

```
admin
file writer_add_line "w1" "data"

mentdb
1
```

file writer_add_bytes <writerId> <bytes>

Description

Add a new bytes to a writer

Parameters

writerId: The writer id -String - required

bytes: The bytes to add -String - required

```
admin
file writer_add_bytes "w2" "data"

mentdb
1
```

file writer_flush <writerId>

Description

Flush a writer

Parameters

writerId: The writer id -String - required

```
admin
file writer_flush "w1"

mentdb
1
```

file writer_close <writerId>

Description

Close a writer

Parameters

writerId: The writer id -String - required

```
admin
file writer_close "w1"

mentdb
1
```

file writer_closeall

Description

Close all writers

```
admin
file writer_closeall

mentdb
{}
```

file reader_open <readerId> <filePath> <type> <encoding>

Description

Open a reader

Parameters

readerId: The reader id -String - required

filePath: The path to the file -String - required

type: The type (TEXT|BINARY) -String - required

encoding: The encoding (ex: 'utf-8') -String - required

```
admin
file reader_open "r1" "file.txt" TEXT "utf-8"

mentdb
1
```

```
admin
file reader_open "r2" "image.png" BINARY null

mentdb
1
```

file reader_exist <readerId>

Description

Check if a ready is already opened

Parameters

readerId: The reader id -String - required

```
admin
file reader_exist "r1"

mentdb
1
```

file reader_show

Description

Show all readers

```
admin
file reader_show

mentdb
[<br> "r2",<br> "r1"<br>]
```

file reader_get_line <readerId>

Description

Get line from a reader (TEXT mode)

Parameters

readerId: The reader id -String - required

```
admin
file reader_get_line "r1"

mentdb
data
```

file reader_get_bytes <readerId> <nbBytes>

Description

Get bytes from a reader (BINARY mode)

Parameters

readerId: The reader id -String - required

nbBytes: The number of bytes -String - required

```
admin
file reader_get_bytes "r2" 1024

mentdb
data
```

file reader_close <readerId>

Description

Close a reader

Parameters

readerId: The reader id -String - required

```
admin
file reader_close "r1"

mentdb
1
```

file reader_closeall

Description

Close all readers

```
admin
file reader_closeall

mentdb
{}
```

```
admin
file delete "file.txt"

mentdb
1
```

```
admin
file delete "image.png"
```

```
mentdb
1
```

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File System

- Each of your JSON nodes are saved in blocks to form a record.
- All blocks and records are searchable through position calculations in index and data files.
- You can see the sizes of the data and index files at any time.

fs index size	fs data size
fs index calcul pos	fs index block
fs index count	fs data block
fs data record	fs cache size
fs lock size	fs unused data block
fs unused nb block	fs unused last block

fs index size <page> <nbByPage>

Description

To show the size of all index files (by page)

Parameters

page: The page -integer >= 1 - required

nbByPage: The number by page -integer>0 - required

```
admin
fs index size 1 10

mentdb
[<br>  {<br>    "percent_used": 6,<br>    "current_max_block_size": 16,<br>    "size": 200
```

```
admin
metric index files 1 10;

mentdb
Total block: 1000x16=16000<br>Total size: 1000x200=200000b<br>|-----
```

fs data size <page> <nbByPage>

Description

To show the size of all data files in a page

Parameters

page: The page -integer >= 1 - required

nbByPage: The number by page -integer>0 - required

```
admin
fs data size 1 2

mentdb
[<br>  {<br>    "data fileId": 0,<br>    "percent used": 0,<br>    "current max block size"
```

```
admin
metric data files 1 2;

mentdb
----- 0% - 0 - used: 6186, free: 9993814, total block: 10000000,
```

fs index calcul pos <key>

Description

To calculate the index position for a specific key

Parameters

key: The key -string - required

```
admin
fs index calcul pos "W[cat]"

mentdb
{<br>  "indexPosition": 8,<br>  "key": "W[cat]",<br>  "index fileId": 115<br>}
```

fs index block <indexFileId> <position>

Description

To show a specific block at a position in an index file (The first 8 bytes is the number of block from the index file)

Parameters

indexFileId: The index file id -integer >= 0 - required

position: The position -integer >= 0 - required

```
admin
fs index block 115 8

mentdb
{<br>  "Data fileId": 0,<br>  "Data Position": 1575168<br>}
```

fs index count <indexFileId>

Description

To show the number of block from an index file

Parameters

indexFileId: The index file id -integer >= 0 - required

```
admin
fs index count 115

mentdb
2
```

fs data block <dataFileId> <position>

Description

To show a specific block at a position from a data file

Parameters

dataFileId: The data file id -integer >= 0 - required

position: The position -integer >= 0 - required

```
admin
#Here the collision block;<br>fs data block 0 1575168

mentdb
{<br>  "nextBlockAddress": -1,<br>  "data": "W1siV1tjYXRdIiwwLDE1NzU0MjRdxQ\u003d\u003d"<br>
```

fs data record <dataFileId> <position>

Description

To show all blocks in a record at the position in a data file

Parameters

dataFileId: The data file id -integer >= 0 - required

position: The position -integer >= 0 - required

```
admin
#Here the collision record;<br>fs data record 0 1575168

mentdb
[<br>  {<br>    "blockId": 1,<br>    "block": {<br>      "nextBlockAddress": -1,<br>
```

```
admin
#Here the data record W[cat];<br>fs data record 0 1575424

mentdb
[<br>  {<br>    "blockId": 1,<br>    "block": {<br>      "nextBlockAddress": -1,<br>
```

```
admin
#Here the data node W[cat];<br>node show W[cat]

mentdb
{<br>  "f1": {<br>    "en": {<br>      "ltl": "TH[ 72 ]",<br>      "ftl": "TH[ 6t ]"<br>    }<br>
```

fs cache size

Description

To show the cache size

```
admin
fs cache size

mentdb
512
```

fs lock size

Description

To show the lock size

```
admin
fs lock size

mentdb
21
```

fs unused data block <dataFileId> <limit>

Description

To show the unused block list (after a block was deleted). The list return the last block before.

Parameters

dataFileId: The data file id -integer >= 0 - required

limit: The limit -integer >= 0 - required

```
admin
fs unused data block 0 10

mentdb
[<br> 1577728,<br> 1578752,<br> 1579008,<br> 57344,<br> 1579520,<br> 1579776,<br> 1!
```

fs unused nb block <dataFileId>

Description

To show the number of unused data block (after a block was deleted)

Parameters

dataFileId: The data file id -integer >= 0 - required

```
admin
fs unused nb block 0

mentdb
22
```

fs unused last block <dataFileId>

Description

To show the last unused data block (after a block was deleted)

Parameters

dataFileId: The data file id -integer >= 0 - required

```
admin
fs unused last block 0

mentdb
1577728
```

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File Watcher

- File watcher services.

[file watcher start](#)
[file watcher exist](#)

[file watcher kill](#)
[file watcher show](#)

file_watcher start <key> <user> <directory> <scriptName>

Description

To start a file watcher

Parameters

key: The key -String - required
user: The user -String - required
directory: The directory to scann -String - required
scriptName: The script name -String - required

```
admin
file_watcher start "fKey" "admin" "/Users/jimmitry/Desktop/dir" "demo.file.watcher.exe"

mentdb
1
```

file_watcher kill <key>

Description

To kill a file watcher

Parameters

key: The key -String - required

```
admin
file_watcher kill "fKey"

mentdb
1
```

file_watcher exist <key>

Description

To check if a kill a file watcher already exist

Parameters

key: The key -String - required

```
admin
file_watcher exist "fKey1"

mentdb
1
```

file_watcher show

Description

To show all file watchers

```
admin
file_watcher show

mentdb
[]
```

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FTP

- All remote protocols.

ftp set timeout	ftp connect
ftp set type	ftp active compression
ftp active	ftp passive
ftp cd	ftp pwd
ftp mkdir	ftp ls
ftp rename	ftp put
ftp get	ftp rm file
ftp rm dir	ftp disconnect
ftp disconnect all	

ftp set timeout <connectTimeout>

Description

To set the FTP timeout.

Parameters

connectTimeout: The connect timeout -number - required

```
admin
ftp set timeout 10000

mentdb
1
```

ftp connect <sessionId> <jsonObject>

Description

Connect to a FTP server. (Use "anonymous/ftp4j" for an anonymous connection)

Parameters

sessionId: The session id -string - required

jsonObject: The json object information -string - required

```
admin
ftp connect "session1" {cm get "demo_cm_ftp";}

mentdb
1
```

ftp set type <sessionId> <type>

Description

Set the transfer type. (TEXTUAL | BINARY | AUTO)

Parameters

sessionId: The session id -string - required

type: The type (TEXTUAL | BINARY | AUTO) -string - required

```
admin
ftp set type "session1" "BINARY"
```

```
mentdb
```

```
1
```

ftp active compression <sessionId> <bool>

Description

Active or not the compression.

Parameters

sessionId: The session id -string - required

bool: Boolean (true | false) -number - required

```
admin
ftp active compression "session1" true
```

```
mentdb
```

```
1
```

ftp active <sessionId>

Description

Set the active mode.

Parameters

sessionId: The session id -string - required

```
admin
ftp active "session1"
```

```
mentdb
```

```
1
```

ftp passive <sessionId>

Description

Set the passive mode.

Parameters

sessionId: The session id -string - required

```
admin
ftp passive "session1"

mentdb
1
```

ftp cd <sessionId> <directory>

Description

Go to another remote directory.

Parameters

sessionId: The session id -string - required

directory: The remote directory -string - required

```
admin
ftp cd "session1" "/remote/dir"

mentdb
1
```

ftp pwd <sessionId>

Description

Get the current remote directory.

Parameters

sessionId: The session id -string - required

```
admin
ftp pwd "session1"

mentdb
/remote/dir
```

ftp mkdir <sessionId> <directory>

Description

Create a remote directory.

Parameters

sessionId: The session id -string - required

directory: The remote directory -string - required

```
admin
ftp mkdir "session1" "/remote/dir"

mentdb
1
```

ftp ls <sessionId> <fileFilterPath>

Description

Get all files into the current remote directory.

Parameters

sessionId: The session id -string - required
fileFilterPath: The file filter path -string - required

```
admin
ftp ls "session1" "*txt"

mentdb
[]
```

```
admin
ftp ls "session1" ""

mentdb
[]
```

ftp rename <sessionId> <oldFile> <newFile>

Description

Rename a remote file or directory.

Parameters

sessionId: The session id -string - required
oldFile: The old file path -string - required
newFile: The new file path -string - required

```
admin
ftp rename "session1" "file1" "file2"

mentdb
1
```

ftp put <sessionId> <localFile> <mode>

Description

Upload a file.

Parameters

sessionId: The session id -string - required
localFile: The local file path -string - required

mode: The mode (APPEND | RESUME) -string - required

```
admin
ftp put "session1" "file1" "RESUME"

mentdb
1
```

ftp get <sessionId> <remoteFile> <localFile>

Description

Download a file.

Parameters

sessionId: The session id -string - required

remoteFile: The remote file path -string - required

localFile: The local file path -string - required

```
admin
ftp get "session1" "remoteFile1" "localFile2"

mentdb
1
```

ftp rm file <sessionId> <remoteFile>

Description

Remove a remote file.

Parameters

sessionId: The session id -string - required

remoteFile: The remote file path -string - required

```
admin
ftp rm file "session1" "remoteFile1"

mentdb
1
```

ftp rm dir <sessionId> <remoteDir>

Description

Remove a remote directory.

Parameters

sessionId: The session id -string - required

remoteDir: The remote directory path -string - required

```
admin
ftp rm dir "session1" "remoteDir1"

mentdb
1
```

ftp disconnect <sessionId>

Description

Disconnect a session.

Parameters

sessionId: The session id -string - required

```
admin
ftp disconnect "session1"

mentdb
1
```

ftp disconnect all

Description

Disconnect all sessions.

```
admin
ftp disconnect all

mentdb
0
```

FTPS

- All remote protocols.

ftps connect	ftps parse pbsz
ftps exec prot	ftps active
ftps passive	ftps set type
ftps cd	ftps pwd
ftps mkdir	ftps ls
ftps ls dirs	ftps rename
ftps put	ftps get
ftps rm	ftps rm dir
ftps disconnect	ftps disconnect all

ftps connect <sessionId> <jsonObject>

Description

Connect to a FTPS server. (Use "anonymous/ftp4j" for an anonymous connection)

Parameters

sessionId: The session id -string - required
jsonObject: The json object information -string - required

```
admin
ftps connect "session1" {cm get "demo_cm_ftps";}

mentdb
1
```

ftps parse pbsz <sessionId> <pbsz>

Description

Define the protection buffer size.

Parameters

sessionId: The session id -string - required
pbsz: The pbsz size -number - required

```
admin
ftps parse pbsz "session1" 0

mentdb
1
```

ftps exec prot <sessionId> <prot>

Description

Define the protection protocol.

Parameters

sessionId: The session id -string - required

prot: The protocol ('C' | 'S' | 'E' | 'P') -string - required

```
admin
ftps exec prot "session1" P

mentdb
1
```

ftps active <sessionId>

Description

Set the active mode.

Parameters

sessionId: The session id -string - required

```
admin
ftps active "session1"

mentdb
1
```

ftps passive <sessionId>

Description

Set the passive mode.

Parameters

sessionId: The session id -string - required

```
admin
ftps passive "session1"

mentdb
1
```

ftps set type <sessionId> <transferType>

Description

Set the transfer type. (BINRARY | LOCAL | ASCII | EBCDIC)

Parameters

sessionId: The session id -string - required
transferType: The transfer type (BINARY | LOCAL | ASCII | EBCDIC) -string - required

```
admin
  ftps set type "session1" "BINARY"

mentdb
1
```

ftps cd <sessionId> <directory>

Description

Go to another remote directory.

Parameters

sessionId: The session id -string - required
directory: The remote directory -string - required

```
admin
  ftps cd "session1" "/remote/dir"

mentdb
1
```

ftps pwd <sessionId>

Description

Get the current remote directory.

Parameters

sessionId: The session id -string - required

```
admin
  ftps pwd "session1"

mentdb
/remote/dir
```

ftps mkdir <sessionId> <directory>

Description

Create a remote directory.

Parameters

sessionId: The session id -string - required
directory: The remote directory -string - required

```
admin
ftps mkdir "session1" "/remote/dir"

mentdb
1
```

ftps ls <sessionId> <regexFilter>

Description

Get all files from the current remote directory.

Parameters

sessionId: The session id -string - required
regexFilter: The regex filter -string - not required

```
admin
ftps ls "session1" ".*.*"

mentdb
[]
```

ftps ls dirs <sessionId>

Description

Get all directories from the current remote directory.

Parameters

sessionId: The session id -string - required

```
admin
ftps ls dirs "session1"

mentdb
[]
```

ftps rename <sessionId> <oldFile> <newFile>

Description

Rename a remote file or directory.

Parameters

sessionId: The session id -string - required
oldFile: The old file path -string - required
newFile: The new file path -string - required

```
admin
ftps rename "session1" "file1" "file2"

mentdb
1
```

ftps put <sessionId> <localFile> <remoteFile> <mode>

Description

Upload a file.

Parameters

sessionId: The session id -string - required
localFile: The local file path -string - required
remoteFile: The remote file path -string - required
mode: The mode (APPEND | RESUME) -string - required

```
admin
ftps put "session1" "file1" "file2" "RESUME"

mentdb
1
```

ftps get <sessionId> <remoteFile> <localFile>

Description

Download a file.

Parameters

sessionId: The session id -string - required
remoteFile: The remote file path -string - required
localFile: The local file path -string - required

```
admin
ftps get "session1" "remoteFile1" "localFile2"

mentdb
1
```

ftps rm <sessionId> <remoteFile>

Description

Remove a remote file.

Parameters

sessionId: The session id -string - required
remoteFile: The remote file path -string - required

```
admin
ftps rm "session1" "remoteFile1"

mentdb
1
```

ftps rm dir <sessionId> <remoteDir>

Description

Remove a remote directory.

Parameters

sessionId: The session id -string - required
remoteDir: The remote directory path -string - required

```
admin
ftps rm dir "session1" "remoteDir1"

mentdb
1
```

ftps disconnect <sessionId>

Description

Disconnect a session.

Parameters

sessionId: The session id -string - required

```
admin
ftps disconnect "session1"

mentdb
1
```

ftps disconnect all

Description

Disconnect all sessions.

```
admin
ftps disconnect all

mentdb
0
```

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[MQL_FX]

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Group

- A user or script can belong to groups.
- A group has rights.

group add	group create insert add	group exist
group grant user		group grant script
group grant_all script		group ungrant_all script
group is granted user		group is granted script
group get		group get user
group get script		group show
group ungrant user		group ungrant script
group remove		

group add <groupName>

Synonymous

[group create|insert|add](#)

Description

To add a new group

Parameters

groupName: The group name -string - required

```
admin
group add "test"

mentdb
Group added with successful.
```

group exist <groupName>

Description

To check if a group exist

Parameters

groupName: The group name -string - required

```
admin
group exist "test"

mentdb
1
```

group grant user <login> <groupName>

Description

To grant a user to a group

Parameters

login: The login -string - required
groupName: The group name -string - required

```
admin
group grant user "admin" "test"

mentdb
User granted with successful.
```

group grant script <scriptName> <groupName>

Description

To grant a script to a group

Parameters

scriptName: The script name -string - required
groupName: The group name -string - required

```
admin
script create post "addition" false 1
(param
  (var "[v1]" {type is_double [v1]} "description ..." is_null:true is_empty:true "example"
  (var "[v2]" {type is_double [v2]} "description ..." is_null:true is_empty:true "example"
)
"description ..."
{
  + [v1] [v2];
}
"Return ...";<br>group grant script "addition.post" "test"

mentdb
Script granted with successful.
```

group grant_all script <script_starts_with> <groupName>

Description

To grant all script whitch starts with a string to a group

Parameters

script_starts_with: The script name starts with -string - required
groupName: The group name -string - required

```
admin
group grant_all script "addition." "test"

mentdb
Scripts granted with successful.
```

group ungrant_all script <script_starts_with> <groupName>

Description

To ungrant all script whitch starts with a string to a group

Parameters

script_starts_with: The script name starts with -string - required
groupName: The group name -string - required

```
admin
group ungrant_all script "addition." "test"

mentdb
Scripts ungranted with successful.
```

group is granted user <login> <groupName>

Description

To check if a user granted to a group

Parameters

login: The login -string - required
groupName: The group name -string - required

```
admin
group is granted user "admin" "test"

mentdb
1
```

group is granted script <scriptName> <groupName>

Description

To check if a script granted to a group

Parameters

scriptName: The script name -string - required
groupName: The group name -string - required

```
admin
group is granted script "addition.post" "test"

mentdb
1
```

group get <groupName>

Description

To get the group

Parameters

groupName: The group name -string - required

```
admin
group get "test"

mentdb
{<br>  "c": "admin",<br>  "k": "test",<br>  "scripts": {<br>    "addition.post": 0<br>  },
```

group get user <groupName>

Description

To get users from a group

Parameters

groupName: The group name -string - required

```
admin
group get user "test"

mentdb
{"admin": 0}
```

group get script <groupName>

Description

To get scripts from a group

Parameters

groupName: The group name -string - required

```
admin
group get script "test"

mentdb
{"addition.post": 0}
```

group show

Description

To show all groups

```
admin
group show

mentdb
{<br> "app": 0,<br> "luc-yann": 0,<br> "lib": 0,<br> "test": 0,<br> "luc-yann2": 0,<br>
```

group ungrant user <login> <groupName>

Description

To ungrant a user to a group

Parameters

login: The login -string - required

groupName: The group name -string - required

```
admin
group ungrant user "admin" "test"

mentdb
User ungranted with successful.
```

group ungrant script <scriptName> <groupName>

Description

To ungrant a script to a group

Parameters

scriptName: The script name -string - required

groupName: The group name -string - required

```
admin
group ungrant script "addition.post" "test"

mentdb
Script ungranted with successful.
```

group remove <groupName>

Description

To remove a group

Parameters

groupName: The group name -string - required

```
admin
group remove "test"

mentdb
Group removed with successful.
```

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HTML

- HTML parser.

html load from str	html load from url
html close	html close all
html show	html exist
html element	html parse
json parse obj	json parse array

html load_from_str <domId> <html>

Description

Load a HTML document from a string

Parameters

domId: The DOM id -string - required

html: The html -string - required

```
admin
html load_from_str "domId1" "..."
```



```
mentdb
1
```

html load_from_url <domId> <url> <method> <timeout> <jsonHeaders> <jsonCookies> <jsonData>

Description

Load a HTML document from an url

Parameters

domId: The DOM id -string - required

url: The url -string - required

method: The method (GET|POST) -string - required

timeout: The timeout (ex: 5000) -number - required

jsonHeaders: The JSON headers key map -string - required

jsonCookies: The JSON cookies key map -string - required

jsonData: The JSON data key map -string - required

```
admin
html load_from_url "domId1" "https://www.tripadvisor.fr/Hotel_Review-g298470-d1473791-Revi"
mentdb
1
```

html close <domId>

Description

Close a document

Parameters

domId: The DOM id -string - required

```
admin
html close "domId1"

mentdb
1
```

html close_all

Description

Close all documents

```
admin
html close_all

mentdb
2
```

html show

Description

To show all open documents

```
admin
html show

mentdb
[ "domId1" ]
```

html exist <domId>

Description

To check if a document already exist

Parameters

domId: The DOM id -string - required

```
admin
html exist "domId1"

mentdb
1
```

html element <domId> <jsonDoc> <id>

Description

To load a HTML element into a json object

Parameters

domId: The DOM id -string - required
jsonDoc: The JSON document id -string - required
id: The element id -string - required

```
admin
html element "domId1" "jsonDoc1" "id"

mentdb
1
```

html parse <domId> <jsonDoc> <searchType> <key> <value> <mqlActions>

Description

To execute actions on HTML elements (JSOUP syntax)

Parameters

domId: The DOM id -string - required
jsonDoc: The JSON document id -string - required
searchType: The search type (TAG | ATTRIBUTE | SELECT | CLASS | ATTRIBUTE_VALUE | CONTAINING_OWN_TEXT | CONTAINING_TEXT | OWN_TEXT_REGEX | TEXT_REGEX | ATTRIBUTE_STARTING | ATTRIBUTE_VALUE_CONTAINING | ATTRIBUTE_VALUE_ENDING | ATTRIBUTE_VALUE_REGEX | ATTRIBUTE_VALUE_NOT | ATTRIBUTE_VALUE_STARTING) - string - required
key: The key -string - required
value: The value -string - required
mqlActions: The MQL actions -string - required

```
admin
html parse "domId1" "jsonDoc1" "TAG" "a" "" {

#Here your MQL source code ...
json select "jsonDoc1" "/text";
json select "jsonDoc1" "/html";
json select "jsonDoc1" "/formVal";
json select "jsonDoc1" "/tagName";
json select "jsonDoc1" "/id";
json select "jsonDoc1" "/nodeName";
json select "jsonDoc1" "/outerHtml";
json select "jsonDoc1" "/ownText";
json select "jsonDoc1" "/wholeText";
json select "jsonDoc1" "/attributes...";
json select "jsonDoc1" "/classNames[0]";

}

mentdb
1
```

json parse_obj <docId> <jsonPath> <varKey> <varValue> <mqlActions>

Description

To execute actions on a JSON object

Parameters

docId: The document id -string - required
jsonPath: The JSON path -string - required
varKey: The key variable (ex: [key]) -string - required
varValue: The value variable (ex: [val]) -string - required
mqlActions: The MQL actions -string - required

```
admin
json parse_obj "keyId" "/" "[key]" "[val]" {

#Here your MQL source code ...
log trace (concat [key] "=" [val]);

}

mentdb
```

json parse_array <docId> <jsonPath> <varValue> <mqlActions>

Description

To execute actions on a JSON array

Parameters

docId: The document id -string - required
jsonPath: The JSON path -string - required
varValue: The value variable (ex: [val]) -string - required
mqlActions: The MQL actions -string - required

```
admin
json parse_array "keyId" "/" "[val]" {

#Here your MQL source code ...
[val];

}

mentdb
```

Job

- You can run MQL scripts automatically at specific times.

job help	job add job create insert add
job show	job show activate
job exist	job pause
job resume	job generate update
job update	job remove
job scheduler stop	job scheduler start
job scheduler restart	job scheduler status

job help

Description

To show the job help

```
admin
job help

mentdb
Cron is a UNIX tool that has been around for a long time, so its scheduling capabilities a
```

job add <jobId> <scriptName> <pattern> <activate>

Synonymous

job create|insert|add

Description

To add a new job

Parameters

jobId: The job id -string - required
scriptName: The script name -string - required
pattern: The pattern -string - required
activate: Is activate ? (true | false) -string - required

```
admin
job add "myJobId" "myScript.post" "0/5 * * * *" true

mentdb
Job added with successful.
```

job show

Description

To show all jobs

```
admin
job show

mentdb
{<br>  "server.reset_id": {<br>    "pattern": "0 0 0 * * ?",<br>    "activate": "1",<br>
```

job show activate

Description

To show all activate jobs

```
admin
job show activate

mentdb
[<br>  [<br>    "server.process_stack",<br>    "stack.process_stack.post",<br>    "0/1 * *
```

job exist <jobId>

Description

To check if a job already exist

Parameters

jobId: The job id -string - required

```
admin
job exist "myJobId"

mentdb
1
```

job pause <jobId>

Description

To pause a job

Parameters

jobId: The job id -string - required

```
admin
job pause "myJobId"

mentdb
1
```

job resume <jobId>

Description

To resume a job

Parameters

jobId: The job id -string - required

```
admin
job resume "myJobId"

mentdb
1
```

job generate update <jobId>

Description

To generate an update job update request

Parameters

jobId: The job id -string - required

```
admin
job generate update "myJobId"

mentdb
job update "myJobId" "addition" "0 0 * * * ?";
```

job update <jobId> <scriptName> <pattern> <activate>

Description

To update a job

Parameters

jobId: The job id -string - required

scriptName: The script name -string - required

pattern: The pattern -string - required

activate: Is activate ? (true | false) -string - required

```
admin
job update "myJobId" "addition" "0 1 * * * ?" true

mentdb
Job updated with successful.
```

```
admin
job show

mentdb
{<br>  "server.reset_id": {<br>      "pattern": "0 0 0 * * ?",<br>      "activate": "1",<br>
```

job remove <jobId>

Description

To remove a job

Parameters

jobId: The job id -string - required

```
admin
job remove "myJobId"

mentdb
Job removed with successful.
```

```
admin
job show

mentdb
{<br>  "server.reset_id": {<br>      "pattern": "0 0 0 * * ?",<br>      "activate": "1",<br>
```

job scheduler stop

Description

To stop the job scheduler

```
admin
job scheduler stop

mentdb
Job scheduler stoped with successful.
```

job scheduler start

Description

To start the job scheduler

```
admin
job scheduler start

mentdb
Job scheduler started with successful.
```

job scheduler restart

Description

To restart the job scheduler

```
admin
job scheduler restart

mentdb
Job scheduler restarted with successful.
```

job scheduler status

Description

To show the status of the job scheduler

```
admin
job scheduler status

mentdb
Running...
```

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JSON

- You also have MQL functions to handle JSON in memory.

json load	json show
json load select	json load by ref
json iobject	json count
json select	json is object
json is array	json exist
json doc	json fields
json iarray	json iarray
json uarray	json uobject
json darray	json dobject
json unload	json unload_all

json load <key> < jsonString>

Description

To load a json string

Parameters

key: The key - string - required
jsonString: The JSON string - string - required

```
admin
  json load "keyId" "{}"

mentdb
  1
```

json show

Description

To show all JSON object saved into the session

```
admin
  json show

mentdb
  [ "keyId", "newKeyId" ]
```

json load select <key> <jsonString> <jPath>

Description

To load a json string and select an element

Parameters

key: The key -string - required
jsonString: The JSON string -string - required
jPath: The JSON path -string - required

```
admin
json load select "keyId" "{\"a\": 5.0, \"b\": {\"c\": 7.0}}" /a

mentdb
5.0
```

json load by ref <fromKey> <jPath> <new KeyId>

Description

To load by ref a json string from another json object

Parameters

fromKey: The key -string - required
jPath: The JSON path -string - required
new KeyId: The JSON string -string - required

```
admin
json load by ref "keyId" /b "newKeyId"

mentdb
{<br>  "c": 7.0<br>}
```

```
admin
json uobject "newKeyId" / c 8 NUM;<br>json select "newKeyId" /c;

mentdb
8.0
```

```
admin
json doc "keyId";

mentdb
{<br>  "a": 5.0,<br>  "b": {<br>    "c": 8.0<br>  }<br>}
```

json iobject <key> <jPath> <fieldname> <value> <type>

Description

To insert an element into an object in a node

Parameters

key: The key -string - required
jPath: The JSON path -string - required
fieldname: The fieldname -string - required
value: The value -string - required

type: The type (NUM|INT|STR|BOOL|BOOL2|ARRAY|OBJ) -string - required

```
admin
json iobject "keyId" / a 5 NUM

mentdb
1
```

```
admin
json iobject "keyId" / tab "[ ]" ARRAY

mentdb
1
```

json count <key> <jPath>

Description

To count element in a node

Parameters

key: The key -string - required

jPath: The JSON path -string - required

```
admin
json count "keyId" /

mentdb
3
```

json select <key> <jPath>

Description

To select an element in a node

Parameters

key: The key -string - required

jPath: The JSON path -string - required

```
admin
json select "keyId" /a

mentdb
5.0
```

json is object <key> <jPath>

Description

To check if an element is an object in a node

Parameters

key: The key -string - required

jPath: The JSON path -string - required

```
admin
json is object "keyId" /

mentdb
1
```

json is array <key> <jPath>

Description

To check if an element is an array in a node

Parameters

key: The key -string - required
jPath: The JSON path -string - required

```
admin
json is array "keyId" /tab

mentdb
1
```

json exist <key>

Description

To check if a key is loaded

Parameters

key: The key -string - required

```
admin
json exist "keyId"

mentdb
1
```

json doc <key>

Description

To get a json document

Parameters

key: The key -string - required

```
admin
json doc "keyId"

mentdb
{<br>  "a": 5.0,<br>  "b": {<br>    "c": 8.0<br>  },<br>  "tab": []<br>}
```

json fields <key> <jPath>

Description

To get all fields into an object in a node

Parameters

key: The key -string - required
jPath: The JSON path -string - required

```
admin
json fields "keyId" /
mentdb
[<br> "a",<br> "b",<br> "tab"<br>]
```

json iarray <key> <jPath> <value> <type>

Description

To insert an element into an array in a node

Parameters

key: The key -string - required
jPath: The JSON path -string - required
value: The value -string - required
type: The type (NUM|INT|STR|BOOL|BOOL2|ARRAY|OBJ) -string - required

```
admin
json iarray "keyId" /tab test STR
mentdb
1
```

```
admin
json iarray "keyId" /tab test2 STR
mentdb
1
```

```
admin
json doc "keyId"
mentdb
{<br> "a": 5.0,<br> "b": {<br> "c": 8.0<br> },<br> "tab": [<br> "test",<br> ]}
```

json iarray <key> <jPath> <index> <value> <type>

Description

To insert an element into an array in a node

Parameters

key: The key -string - required

jPath: The JSON path -string - required
index: The index position -number - required
value: The value -string - required
type: The type (NUM|INT|STR|BOOL|BOOL2|ARRAY|OBJ) -string - required

```
admin
json iarray "keyId" /tab 0 test STR

mentdb
1
```

```
admin
json iarray "keyId" /tab test2 STR

mentdb
1
```

```
admin
json doc "keyId"

mentdb
{<br>  "a": 5.0,<br>  "b": {<br>    "c": 8.0<br>  },<br>  "tab": [<br>    "test",<br>    "
```

json uarray <key> <jPath> <index> <value> <type>

Description

To update an element into an array in a node

Parameters

key: The key -string - required
jPath: The JSON path -string - required
index: The index -integer - required
value: The value -string - required
type: The type (NUM|INT|STR|BOOL|BOOL2|ARRAY|OBJ) -string - required

```
admin
json uarray "keyId" /tab 1 test2 STR

mentdb
1
```

```
admin
json doc "keyId"

mentdb
{<br>  "a": 5.0,<br>  "b": {<br>    "c": 8.0<br>  },<br>  "tab": [<br>    "test",<br>    "
```

json uobject <key> <jPath> <fieldname> <value> <type>

Description

To update an element into an object in a node

Parameters

key: The key - string - required
jPath: The JSON path -string - required
fieldname: Thefieldname - string - required
value: The value -string - required
type: The type (NUM|INT|STR|BOOL|BOOL2|ARRAY|OBJ) -string - required

```
admin
json uobject "keyId" / a 8 NUM
```

```
mentdb
1
```

```
admin
json doc "keyId"

mentdb
{<br>  "a": 8.0,<br>  "b": {<br>      "c": 8.0<br>  },<br>  "tab": [<br>      "test",<br>      "
```

json darray <key> <jPath> <index>

Description

To delete an element from an array in a node

Parameters

key: The key - string - required
jPath: The JSON path -string - required
index: The index -integer - required

```
admin
json darray "keyId" /tab 0
```

```
mentdb
1
```

```
admin
json doc "keyId"

mentdb
{<br>  "a": 8.0,<br>  "b": {<br>      "c": 8.0<br>  },<br>  "tab": [<br>      "test2",<br>
```

json dobject <key> <jPath> <fieldname>

Description

To delete an element from an object in a node

Parameters

key: The key - string - required
jPath: The JSON path -string - required
fieldname: Thefieldname - string - required

```
admin
json dobject "keyId" / a

mentdb
1
```

```
admin
json doc "keyId"

mentdb
{<br>  "b": {<br>    "c": 8.0<br>  },<br>  "tab": [<br>    "test2",<br>    "test2",<br>
```

json unload <key>

Description

To unload a json document

Parameters

key: The key - string - required

```
admin
json unload "keyId"

mentdb
1
```

json unload_all

Description

To unload all json documents

```
admin
json unload_all

mentdb
1
```

Language

- Here you can find the functions needed to create new languages in the MentDB engine.
- A created language can not be deleted.

[language create](#) [language createlinsert|add](#)

[language show](#)

language create <lang>

Synonymous

language create|insert|add

Description

To insert a new language

Parameters

lang: The language id -string - required

```
admin
language create "en";

mentdb
Language en created with successful.
```

language show

Description

To show all languages

```
admin
language show

mentdb
[<br>  "en",<br>  "fr",<br>  "io"<br>]
```

```
admin
@[r_fr_?_est_une_langue]

mentdb
RG[b]
```

```
admin
graph relation (@[r_fr_?_est_une_langue]);
mentdb
j23i88m90m76i39t04r09y35p14a96y09e57t39{"e": [{"n1":"V0_RG[b]", "n2":"T1_TH[]", "k":"$V0_RG[b"]}
```

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Log

- You have a log engine in rolling.

log trace	log write
log show	log current id
log retention day	log remove
log archive size	log archive path
log reset	log search
log show time	

log trace <text>

Description

To write a message into the log system

Parameters

text: The text - string - required

```
admin
log trace test

mentdb
1
```

log write <msg> <status> <clientKey> <clientValue>

Description

To write a message into MySQL

Parameters

msg: The message to write - string - required

status: The status - string - required

clientKey: The client key - string - required

clientValue: The client value - string - required

```
admin
log write "My message ..." OK "cmd" 425

mentdb
1
```

log show <nbLine>

Description

To show last write text into the log system

Parameters

nbLine: The number of line -integer - not required

```
admin
log show 5

mentdb
2017-06-05 10:35:42.375+0400: 43<br>2017-06-05 10:35:42.375+0400: 44<br>2017-06-05 10:35:4:
```

```
admin
log show

mentdb
2017-06-05 10:35:42.375+0400: 43<br>2017-06-05 10:35:42.375+0400: 44<br>2017-06-05 10:35:4:
```

log current id

Description

To show the current log id

```
admin
log current id

mentdb
1
```

log retention day

Description

To show the log retention day

```
admin
log retention day

mentdb
50
```

log remove

Description

To remove logs with retention day

```
admin
```

```
log remove
```

```
mentdb
```

```
1
```

log archive size

Description

To show the size for one archive file

```
admin
```

```
log archive size
```

```
mentdb
```

```
30
```

log archive path

Description

Get the path to save archives

```
admin
```

```
log archive path
```

```
mentdb
```

```
archives/logs
```

log reset <code>

Description

To reset the log system

Parameters

code: The code to reset all tables (18061980) -integer - not required

```
admin
```

```
log reset "xxx"
```

```
mentdb
```

```
1
```

log search <status> <script> <c_key> <c_value> <msgFilter> <dtMin> <dtMax> <dtOrder> <page> <nbByPage>

Description

To search log

Parameters

status: The status (ok|ko) -string - required
script: The script (can be null) -string - required
c_key: The client key -string - required
c_value: The client value -string - required
msgFilter: The message filter -string - required
dtMin: The min date -string - required
dtMax: The max date -string - required
dtOrder: The order (ASC|DESC) -string - required
page: The page -number - required
nbByPage: The number of line by page -number - required

```
admin
log search "ko"
null
null
null
null
null
(date datediff (concat (date sysdate) " 00:00:00") "DAY" 0)
(concat (date sysdate) " 23:59:59")
ASC 1 5;

mentdb
{"column_types": [ "STRING", "STRING", "STRING", "STRING", "STRING", "STRING", "STRING", "STRING", "STRING", "STRING"]}
```

log show_time <pid>

Description

To show log throught the time

Parameters

pid: The process id -string - required

```
admin
log show_time 17

mentdb
{"column_types": [ "STRING", "STRING", "STRING", "STRING", "STRING", "STRING", "STRING", "STRING", "STRING", "STRING"]}
```

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Machine Learning

- Machine learning.

ml cluster xy_scatter	ml cluster load
ml cluster load_from_json	ml cluster exist
ml cluster show	ml cluster nb
ml cluster nb_point	ml cluster points
ml cluster point_get	ml cluster point_delete
ml cluster point_add	ml cluster point_update
ml cluster distance	ml cluster close
ml cluster close_all	ml h_node load_from_json
ml h_node add_problem	ml h_node predict
ml h_node exist	ml h_node exist_problem
ml h_node show	ml h_node show_problem
ml h_node close_problem	ml h_node close
ml h_node close_all	

ml cluster xy_scatter <clusterId>

Description

Show a machine learning scatter

Parameters

clusterId: The cluster id -string - required

```
admin
ml cluster xy_scatter "cluster1"

mentdb
...
```

ml cluster load <clusterId> <cmld> <fieldX> <fieldY> <maximumRadius> <minPoint> <sqlSource>

Description

Load a cluster from the database

Parameters

clusterId: The cluster id -string - required

cmld: The database connection id -string - required

fieldX: The field X -string - required

fieldY: The field Y -string - required

maximumRadius: The maximum radius -string - required

minPoint: The minimum of points -string - required

sqlSource: The select query (origin) -string - required

```
admin
ml cluster load "cluster1" "demo_cm_mysql" "id" "quantity" 5 3 "select * from products lim
mentdb
...
```

ml cluster load_from_json <clusterId> <maximumRadius> <minPoint> <jsonArray>

Description

Load a cluster from a json array

Parameters

clusterId: The cluster id -string - required
maximumRadius: The maximum radius -string - required
minPoint: The minimun of points -string - required
jsonArray: The json array -string - required

```
admin
ml cluster load_from_json "cluster1" 1 2 "[
  [1.0, 2.0],
  [1.0, 2.2],
  [1.0, 2.5],
  [1.2, 2.0],
  [1.11, 0.9],
  [5.0, 3.0],
  [5.2, 3.08],
  [5.1, 3.0],
  [5.15, 2.9],
  [3.0, 2.0],
  [3.2, 2.08],
  [3.1, 2.0],
  [3.15, 1.9]
]"
mentdb
...
```

ml cluster exist <clusterId>

Description

Check if a cluster already exist

Parameters

clusterId: The cluster id -string - required

```
admin
ml cluster exist "cluster1"
mentdb
1
```

ml cluster show

Description

Show all clusters

```
admin
ml cluster show

mentdb
...
```

ml cluster nb <clusterId>

Description

Get the number of cluster

Parameters

clusterId: The cluster id -string - required

```
admin
ml cluster nb "cluster1"

mentdb
3
```

ml cluster nb_point <clusterId> <clusterIndex>

Description

Get the number of points in a cluster

Parameters

clusterId: The cluster id -string - required

clusterIndex: The cluster index -string - required

```
admin
ml cluster nb_point "cluster1" 0

mentdb
5
```

ml cluster points <clusterId> <clusterIndex>

Description

Get all points in a cluster

Parameters

clusterId: The cluster id -string - required

clusterIndex: The cluster index -string - required

```
admin
ml cluster points "cluster1" 0

mentdb
...
```

ml cluster point_get <clusterId> <clusterIndex> <pointIndex>

Description

Get a point in a cluster

Parameters

clusterId: The cluster id -string - required
clusterIndex: The cluster index -string - required
pointIndex: The point index -string - required

```
admin
ml cluster point_get "cluster1" 0 0

mentdb
...
```

ml cluster point_delete <clusterId> <clusterIndex> <pointIndex>

Description

Get a point in a cluster

Parameters

clusterId: The cluster id -string - required
clusterIndex: The cluster index -string - required
pointIndex: The point index -string - required

```
admin
ml cluster point_delete "cluster1" 0 0

mentdb
...
```

ml cluster point_add <clusterId> <clusterIndex> <x> <y>

Description

Add a point in a cluster

Parameters

clusterId: The cluster id -string - required
clusterIndex: The cluster index -string - required
x: The x -string - required
y: The y -string - required

```
admin
ml cluster point_add "cluster1" 0 5 6

mentdb
...
```

ml cluster point_update <clusterId> <clusterIndex> <pointIndex> <x> <y>

Description

Update a point in a cluster

Parameters

clusterId: The cluster id -string - required
clusterIndex: The cluster index -string - required
pointIndex: The point index -string - required
x: The x -string - required
y: The y -string - required

```
admin
ml cluster point_update "cluster1" 0 0 5 6

mentdb
...
```

ml cluster distance <clusterId> <x1> <y1> <x2> <y2>

Description

Get the distance between two points

Parameters

clusterId: The cluster id -string - required
x1: The x1 value -string - required
y1: The y1 value -string - required
x2: The x2 value -string - required
y2: The y2 value -string - required

```
admin
ml cluster distance "cluster1" 1 2 4 7

mentdb
3
```

ml cluster close <clusterId>

Description

Close a cluster

Parameters

clusterId: The cluster id -string - required

```
admin
ml cluster close "cluster1"

mentdb
1
```

ml cluster close_all

Description

Close all clusters

```
admin
ml cluster close_all
```

```
mentdb
```

```
1
```

ml h_node load_from_json <hld> <isDirect> <jsonArray>

Description

Load heuristic node objects from json

Parameters

hld: The heuristic id -string - required

isDirect: Is direct ? -boolean - required

jsonArray: The JSON data array -string - required

```
admin
ml h_node load_from_json "hid1" true "[
  [ \"A\", \"B\", 2 ],
  [ \"A\", \"C\", 4 ],
  [ \"D\", \"A\", 1 ],
  [ \"A\", \"D\", 3 ],
  [ \"E\", \"F\", 4 ],
  [ \"D\", \"F\", 2 ],
  [ \"G\", \"H\", 1 ],
  [ \"F\", \"H\", 5 ],
  [ \"F\", \"I\", 7 ],
  [ \"J\", \"I\", 2 ]
]"
```

```
mentdb
```

```
...
```

ml h_node add_problem <hld> <problemId> <from>

Description

Add a new problem

Parameters

hld: The heuristic id -string - required

problemId: The problem id -string - required

from: The origin to search -string - required

```
admin
ml h_node add_problem "hid1" "probId1" "A"
```

```
mentdb
```

```
1
```

ml h_node predict <hld> <problemId> <algorithm> <to> <param>

Description

Predict the best path

Parameters

hld: The heuristic id -string - required
problemId: The problem id -string - required
algorithm: The algorithm
(dijkstra|a_star|bellman_ford|breadth_first_search|depth_first_search|depth_limited_search|i_d_a_star|multi_objective_l_s|hill_climbing - string - required
to: The origin to search -string - required
param: The algorithm param (integer for 'depth_limited_search', boolean for 'hill_climbing') -string - required

```
admin
ml h_node predict "hid1" "probId1" "dijkstra|a_star|bellman_ford|breadth_first_search|depth_limited_search|i_d_a_star|multi_objective_l_s|hill_climbing"
mentdb
...
```

ml h_node exist <hld>

Description

Check if a heuristic node object already exist

Parameters

hld: The heuristic id -string - required

```
admin
ml h_node exist "hid1"

mentdb
1
```

ml h_node exist_problem <hld> <problemId>

Description

Check if a problem already exist

Parameters

hld: The heuristic id -string - required

problemId: The problem id -string - required

```
admin
ml h_node exist_problem "hid1" "probId1"

mentdb
1
```

ml h_node show

Description

Show all heuristic node objects

```
admin
ml h_node show
```

```
mentdb
```

```
...
```

ml h_node show_problem <hld>

Description

Show all problems into a heuristic object

Parameters

hld: The heuristic id -string - required

```
admin
ml h_node show_problem "hid1"
```

```
mentdb
```

```
...
```

ml h_node close_problem <hld> <problemId>

Description

Close a problem

Parameters

hld: The heuristic id -string - required

problemId: The problem id -string - required

```
admin
ml h_node close_problem "hid1" "probId1"
```

```
mentdb
```

```
1
```

ml h_node close <hld>

Description

Close a heuristic node object

Parameters

hld: The heuristic id -string - required

```
admin
ml h_node close "hid1"
```

```
mentdb
```

```
1
```

ml h_node close_all

Description

Close all heuristic node objects

```
admin
ml h_node close_all

mentdb
1
```

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Mail

- Mail sender.

mail download pop3	mail download imap
mail send	mail process
mail process_limit	mail count_loaded
mail count_all	mail count_error
mail min_error_date	mail show
mail show_error	mail get_body
mail get_error	mail replay_error_id
mail replay_error_cm	mail replay_error_all
mail delete_error_id	mail delete_error_cm
mail delete_error_all	

mail download pop3 <output_dir> <nbMsgToDownload> <deleteMsgAfterDownload>
<jsonPOP3config>

Description

Download mail from a POP3 mail box.

Parameters

output_dir: The output directory -string - required
 nbMsgToDownload: The number of message to download -string - required
 deleteMsgAfterDownload: Mark the message as deleted after download (true|false) -number - required
 jsonPOP3config: The JSON POP3 config -string - required

```
admin
mail download pop3 "/Users/jimmitry/Desktop/tmp"
 3 true
 {cm get "demo_cm_pop3";}

mentdb
"{
  \"Total\": 14368,
  \"NbReceived\": 1,
  \"Directory\": \"/Users/jimmitry/Desktop/tmp/20180106160818\"
}"
```

mail download imap <output_dir> <nbMsgToDownload> <unreadOrAll>
<copyMessageInAnotherFolder> <deleteMsgAfterDownload> <markAsRead> <startDate> <endDate>
<fromCondition> <subjectCondition> <jsonIMAPconfig>

Description

Download mail from a IMAP mail box.

Parameters

output_dir: The output directory -string - required
nbMsgToDownload: The number of message to download -string - required
unreadOrAll: Filter unread or all (unread|all) -string - required
copyMessageInAnotherFolder: If not null or empty, copy mail into the folder -string - required
deleteMsgAfterDownload: Mark the message as deleted after download (true|false) -number - required
markAsRead: Mark messages as read (true|false) -string - required
startDate: Start date -string - required
endDate: End date -string - required
fromCondition: The MQL from condition (variable: [imap_from]) -string - required
subjectCondition: The MQL subject condition (variable: [imap_subject]) -string - required
jsonIMAPconfig: The JSON IMAP config -string - required

```
admin
-> "[receive_dir]" "tmp";

#Récupération des mails;
json load "receive_state" (mail download imap [receive_dir]
1 "unread" null false false
"2019-05-07" null
(mql true)
(mql true)
{cm get "demo_cm_imap";};
);

if (> (json select "receive_state" "/NbReceived") 0) {

-> "[sub_receive_dir]" (json select "receive_state" "/Directory");

json load "sub_receive_dir" (file dir_list [sub_receive_dir]);
json parse_array "sub_receive_dir" "/" "[mail]" {

if (string ends_with [mail] ".json") {

json load "current_mail" (file load (concat [sub_receive_dir] "/" [mail]));
log trace (json doc "current_mail");

};

};

};

json doc "receive_state";

mentdb
"{
  \"Unread\": 0,
  \"Total\": 14368,
  \"NbReceived\": 1,
  \"Directory\": \"/Users/jimmityry/Desktop/tmp/20180106160818\""
}"
```

mail send <cm> <to> <cc> <bcc> <subject> <body> <jsonAttachments>

Description

Add a mail to send into the mail spooler.

Parameters

cm: The connection id -string - required
to: The mail list to (separate by ;) -string - required
cc: The mail list copy (separate by ;) -string - required
bcc: The mail list secret copy (separate by ;) -string - required
subject: The subject -string - required
body: The body -string - required
jsonAttachments: The JSON attachments -string - required

```
admin
mail send "demo_cm_smtp" "jimmmitry.payet@gmail.com" "" "" "subject" "body" "[ ]"

mentdb
1
```

mail process

Description

Process to send mail.

```
admin
mail process

mentdb
1
```

mail process_limit

Description

Show the mail config process limit.

```
admin
mail process_limit

mentdb
5
```

mail count_loaded

Description

Count the number of loaded process.

```
admin
mail count_loaded

mentdb
4
```

mail count_all

Description

Count all mails to send.

```
admin  
mail count_all  
  
mentdb  
12
```

mail count_error

Description

Count all mails with error.

```
admin  
mail count_error  
  
mentdb  
3
```

mail min_error_date

Description

Get the min error date (more old date).

```
admin  
mail min_error_date  
  
mentdb  
2017-12-12 10:00:00
```

mail show <limit>

Description

Show mails to send.

Parameters

limit: The limit (default 15) -number - required

```
admin  
mail show 15  
  
mentdb  
[<br>  {<br>      "lastattempt": "2018-02-26 06:43:57.0",<br>      "dtcreate": "2018-02-25 18:
```

mail show_error <limit>

Description

Show mail in error.

Parameters

limit: The limit (default 15) -number - required

```
admin
mail show_error 15

mentdb
{<br>  "data": [<br>    {<br>      "lastattempt": "2018-02-26 06:43:57.0",<br>      "dtcre
```

mail get_body <id>

Description

Get the body for a specific mail

Parameters

id: The mail id -number - required

```
admin
mail get_body 4

mentdb
body
```

mail get_error <id>

Description

Get the error message for a specific mail

Parameters

id: The mail id -number - required

```
admin
mail get_error 4

mentdb
535-5.7.8 Username and Password not accepted. Learn more at<br>535 5.7.8 https://support.
```

mail replay_error_id <id>

Description

Replay a specific mail en error.

Parameters

id: The mail id -number - required

```
admin
mail replay_error_id 4

mentdb
1
```

mail replay_error_cm <cm>

Description

Replay all mails for a specific connection id.

Parameters

cm: The connection id -string - required

```
admin
mail replay_error_cm "smtp_1"

mentdb
1
```

mail replay_error_all

Description

Replay all mails in error

```
admin
mail replay_error_all

mentdb
1
```

mail delete_error_id <id>

Description

Delete a specific mail in error.

Parameters

id: The mail id -number - required

```
admin
mail delete_error_id 4

mentdb
1
```

mail delete_error_cm <cm>

Description

Delete all mails for a specific connection id.

Parameters

cm: The connection id -string - required

```
admin  
mail delete_error_cm "smtp_1"  
  
mentdb  
1
```

mail delete_error_all

Description

Delete all mails in error

```
admin  
mail delete_error_all  
  
mentdb  
1
```

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Math

- Like all languages, you have a few data manipulation functions.

math abs	math base to base
math acos	math asin
math atan	math atan2
math avg	math bit_and
math bit_or	math bit_xor
math cbrt	math ceil
math ceiling	math cos
math cosh	math cot
math decimal_format	math deg_to_rad
math e	math exp
math expm1	math floor
math hypot	math log
math log10	math log1p
math max	math min
math mod	math pi
math pow	math power
math rad_to_deg	math random
math rint	math round
math sign	math signum
math sin	math sinh
math sqrt	math tan
math tanh	math ulp

math abs <number>

Description

get the absolute value of a number

Parameters

number: A number -Number - required

```
admin
math abs -56

mentdb
56
```

math base_to_base <number> <fromBase> <toBase>

Description

Get a number in another base

Parameters

number: A number -Number - required

fromBase: A number -Number - required

toBase: A number -Number - required

```
admin
```

```
math base_to_base 3 10 2
```

```
mentdb
```

```
11
```

math acos <number>

Description

get the arc cosine of a number

Parameters

number: A number -Number - required

```
admin
```

```
math acos 42
```

```
mentdb
```

```
NaN
```

math asin <number>

Description

get the arc sine of a number

Parameters

number: A number -Number - required

```
admin
```

```
math asin 0.5
```

```
mentdb
```

```
0.5235987755982989
```

math atan <number>

Description

get the arc tangent of a number

Parameters

number: A number -Number - required

```
admin
math atan 42

mentdb
1.5469913006098266
```

math atan2 <number1> <number2>

Description

get the angle theta from the conversion of rectangular coordinates (x, y) to polar coordinates (r, theta)

Parameters

number1: A number -Number - required

number2: A number -Number - required

```
admin
math atan2 4 2

mentdb
1.1071487177940904
```

math avg <json_array>

Description

get the avg of a json array of values

Parameters

json_array: A json array (of double values) -String - required

```
admin
math avg "[10 20]"

mentdb
15.0
```

math bit_and <number1> <number2>

Description

the bitwise and operation

Parameters

number1: A number -Number - required

number2: A number -Number - required

```
admin
math bit_and 4456 234
```

```
mentdb
104
```

math bit_or <number1> <number2>

Description

the bitwise or operation

Parameters

number1: A number -Number - required

number2: A number -Number - required

```
admin
math bit_or 4456 234
```

```
mentdb
4586
```

math bit_xor <number1> <number2>

Description

the bitwise xor operation

Parameters

number1: A number -Number - required

number2: A number -Number - required

```
admin
math bit_xor 4456 234
```

```
mentdb
4482
```

math cbrt <number>

Description

returns the cube root of a double value

Parameters

number: A number -Number - required

```
admin
math cbrt 42
```

```
mentdb
3.4760266448864496
```

math ceil <number>

Description

get the smallest integer value not less than the number specified as an argument

Parameters

number: A number -Number - required

```
admin
math ceil 1.2

mentdb
2
```

math ceiling <number>

Description

get the smallest integer value not less than the number specified as an argument

Parameters

number: A number -Number - required

```
admin
math ceiling 1.2

mentdb
2
```

math cos <number>

Description

get the cosine of a number

Parameters

number: A number -Number - required

```
admin
math cos 42

mentdb
-0.39998531498835127
```

math cosh <number>

Description

get the hyperbolic cosine of a number

Parameters

number: A number -Number - required

```
admin
math cosh 42

mentdb
8.696374707602505E17
```

math cot <number>

Description

get the cotangent of a number

Parameters

number: A number -Number - required

```
admin
math cot 42

mentdb
0.4364167060752729
```

math decimal_format <number> <pattern> <decimalSeparator> <groupingSeparator>

Description

convert a number to another formated decimal number

Parameters

number: A number -Number - required

pattern: The pattern -String - required

decimalSeparator: The decimal separator -String - required

groupingSeparator: The grouping separator -String - required

```
admin
math decimal_format 42.456 "#.##" "."
mentdb
42.46
```

math deg_to_rad <number>

Description

converts an angle measured in degrees to an approximately equivalent angle measured in radians

Parameters

number: A number -Number - required

```
admin
math deg_to_rad 42

mentdb
0.7330382858376184
```

math e

Description

get e value

```
admin
math e

mentdb
2.718281828459045
```

math exp <number>

Description

returns euler's number e raised to the power of a double value

Parameters

number: A number -Number - required

```
admin
math exp 42

mentdb
1.73927494152050099E18
```

math expm1 <number>

Description

returns $e^x - 1$

Parameters

number: A number -Number - required

```
admin
math expm1 42

mentdb
1.73927494152050099E18
```

math floor <number>

Description

get the largest integer value not greater than a number specified as argument

Parameters

number: A number -Number - required

```
admin
math floor 1.2

mentdb
1
```

math hypot <number1> <number2>

Description

returns $\sqrt{x^2 + y^2}$ without intermediate overflow or underflow

Parameters

number1: A number -Number - required
number2: A number -Number - required

```
admin
math hypot 4456 234

mentdb
4462.139845410496
```

math log <number>

Description

get the natural logarithm of the argument

Parameters

number: A number -Number - required

```
admin
math log 42

mentdb
3.7376696182833684
```

math log10 <number>

Description

get the base 10 logarithm of the argument

Parameters

number: A number -Number - required

```
admin
math log10 42

mentdb
1.6232492903979006
```

math log1p <number>

Description

returns the natural logarithm of the sum of the argument and 1

Parameters

number: A number -Number - required

```
admin
math log1p 42
```

```
mentdb
3.7612001156935624
```

math max <number1> <number2>

Description

returns the greater

Parameters

number1: A number -Number - required
number2: A number -Number - required

```
admin
math max 4456 234
```

```
mentdb
4456
```

math min <number1> <number2>

Description

returns the smaller of two int values

Parameters

number1: A number -Number - required
number2: A number -Number - required

```
admin
math min 4456 234
```

```
mentdb
234
```

math mod <number1> <number2>

Description

the modulo operation

Parameters

number1: A number -Number - required
number2: A number -Number - required

```
admin
math mod 4456 234

mentdb
10
```

math pi

Description

get pi value

```
admin
math pi

mentdb
3.141592653589793
```

math pow <number1> <number2>

Description

get the value of a number raised to the power of another number

Parameters

number1: A number -Number - required
number2: A number -Number - required

```
admin
math pow 0.5 7

mentdb
0.0078125
```

math power <number1> <number2>

Description

get the value of a number raised to the power of another number

Parameters

number1: A number -Number - required
number2: A number -Number - required

```
admin
math power 0.5 7

mentdb
0.0078125
```

math rad_to_deg <number>

Description

converts an angle measured in radians to an approximately equivalent angle measured in degrees

Parameters

number: A number -Number - required

```
admin
math rad_to_deg 42

mentdb
2406.4227395494577
```

math random <number>

Description

get the random number between 0 and the argument

Parameters

number: A number -Number - required

```
admin
math random 42

mentdb
1
```

math rint <number>

Description

returns the double value that is closest in value to the argument and is equal to a mathematical integer

Parameters

number: A number -Number - required

```
admin
math rint 42

mentdb
42
```

math round <number1> <number2>

Description

rounds a number specified as an argument up to a number specified as another argument

Parameters

number1: A number -Number - required

number2: A number -Number - required

```
admin
math round 1.23654 2

mentdb
1.24
```

math sign <number>

Description

get the sign of a number

Parameters

number: A number -Number - required

```
admin
math sign 42

mentdb
1
```

math signum <number>

Description

get the sign of a number

Parameters

number: A number -Number - required

```
admin
math signum 42

mentdb
1
```

math sin <number>

Description

get the sine of a number

Parameters

number: A number -Number - required

```
admin
math sin 42

mentdb
-0.9165215479156338
```

math sinh <number>

Description

get the hyperbolic sine of a number

Parameters

number: A number -Number - required

```
admin
math sinh 42
```

```
mentdb
8.696374707602505E17
```

math sqrt <number>

Description

get the square root of a non-negative number of the argument

Parameters

number: A number -Number - required

```
admin
math sqrt 42
```

```
mentdb
6.48074069840786
```

math tan <number>

Description

get the tangent of a number

Parameters

number: A number -Number - required

```
admin
math tan 42
```

```
mentdb
2.2913879924374863
```

math tanh <number>

Description

get the hyperbolic tangent of a number

Parameters

number: A number -Number - required

```
admin
math tanh 42

mentdb
1
```

math ulp <number>

Description

returns the size of an ulp of the argument. an ulp of a double value is the positive distance between this floating-point value and the double value next larger in magnitude

Parameters

number: A number -Number - required

```
admin
math ulp 42

mentdb
7.105427357601002E-15
```

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Metric

- You have a lot of metric functions.

metric sessions
metric data files
metric current cpu jvm
metric current free mem
metric current mem jvm
metric current used swap mem
metric file system roots
metric java version
metric system name
metric system version
metric total swap mem

metric index files
metric system
metric current cpu system
metric current free swap mem
metric current used mem
metric date
metric java vendor
metric system architecture
metric system nb processor
metric total mem

metric sessions

Description

To show all metrics about sessions

metric index files <page> <nbByPage>

Description

To show all stats about index files

Parameters

page: The page -integer>0 - required
nbByPage: The number by page -integer>0 - required

```
admin
metric index files 1 2

mentdb
Total block: 1000x16=16000<br>Total size: 1000x200=200000b<br>| -----
```

metric data files <page> <nbByPage>

Description

To show all stats about data files

Parameters

page: The page -integer>0 - required

nbByPage: The number by page -integer>0 - required

```
admin
metric data files 1 2

mentdb
----- 0% - 0 - used: 3699, free: 9996301, total block: 10000000, ...
```

metric system

Description

To show all stats about system

```
admin
metric system

mentdb
AI: Lisa Payet<br>ID: NNeW01VGLmeI<br>MentDB: v_alpha-0.3.1<br>Author: Jimmity PAYET, Pro...
```

metric current cpu jvm

Description

To show current jvm cpu value

```
admin
metric current cpu jvm

mentdb
0.0
```

metric current cpu system

Description

To show current system cpu value

```
admin
metric current cpu system

mentdb
9.0
```

metric current free mem

Description

To show current free memory value

```
admin
metric current free mem
```

```
mentdb
503
```

metric current free swap mem

Description

To show current free swap memory value

```
admin
metric current free swap mem
```

```
mentdb
1093
```

metric current mem jvm

Description

To show current jvm memory status

```
admin
metric current mem jvm
```

```
mentdb
32/123/1820
```

metric current used mem

Description

To show current usable memory value

```
admin
metric current used mem
```

```
mentdb
7690
```

metric current used swap mem

Description

To show current used swap memory value

```
admin
metric current used swap mem

mentdb
1978
```

metric date

Description

To show all dates at the last 31 days

```
admin
metric date

mentdb
[2016-02-27, 2016-02-28, 2016-02-29, 2016-03-01, 2016-03-02, 2016-03-03, 2016-03-04, 2016-
```

metric file system roots

Description

To show statistics to all system roots

```
admin
metric file system roots

mentdb
[{"usedSpace": "148708", "freeSpace": "89539", "absolutePath": "/", "totalSpace": "238248"}]
```

metric java vendor

Description

To show the Java vendor

```
admin
metric java vendor

mentdb
Oracle Corporation
```

metric java version

Description

To show the Java version

```
admin
metric java version

mentdb
1.8.0_25
```

metric system architecture

Description

To show the architecture of the operating system

```
admin
metric system architecture

mentdb
x86_64
```

metric system name

Description

To show the name of the operating system

```
admin
metric system name

mentdb
Mac OS X
```

metric system nb processor

Description

To show the processor number of the operating system

```
admin
metric system nb processor

mentdb
4
```

metric system version

Description

To show the version of the operating system

```
admin
metric system version

mentdb
10.10.5
```

metric total mem

Description

To show current total memory value

```
admin
metric total mem

mentdb
8192
```

metric total swap mem

Description

To show current total swap memory value

```
admin
metric total swap mem

mentdb
3072
```

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MQL Syntax

- You can see the basic syntax of the MQL language.

```
category1 categoryN action param1 paramN
```

category1 categoryN action param1 paramN <category1> <categoryN> <action> <param1>
<paramN>

Description

All MQL function respect the format "category1 categoryN action param1 paramN"

Parameters

category1: The category 1 -string - not required
categoryN: The category N -string - not required
action: The category 1 -string - required
param1: The parameter 1 -string - not required
paramN: The parameter 1 -string - not required

```
admin
who

mentdb
mentdb
```

```
admin
concat "Hello" "Adam!"

mentdb
Hello Adam!
```

MSWord

- Work with Word document.

```
msword replace
```

msword replace <source> <destination> <jsonKeyValue>

Description

Replace texts in a Word document.

Parameters

source: The source path -string - required
destination: The destination path -string - required
jsonKeyValue: The json findtext/replacetext -string - required

```
admin
json load "findReplace" "{}";
json iobject "findReplace" / "tagToReplace" "jim" STR;
msword replace
"/Users/jimmity/Desktop/word1.doc"
"/Users/jimmity/Desktop/word2.doc"
(json doc "findReplace");

mentdb
1
```

MSWordx

- Work with Word document.

```
mswordx replace
```

mswordx replace <source> <destination> <jsonKeyValue>

Description

Replace texts in a WordX document.

Parameters

source: The source path -string - required
destination: The destination path -string - required
jsonKeyValue: The json findtext/replacetext -string - required

```
admin
json load "findReplace" "{}";
json iobject "findReplace" / "tagToReplace" "jim" STR;
mswordx replace
"/Users/jimmity/Desktop/word1.docx"
"/Users/jimmity/Desktop/word2.docx"
(json doc "findReplace");

mentdb
1
```

Node

- The nodes are stored in the storage structure in JSON.
- You can change them at any time.
- Beware, however, of data corruptions.

[node create](#)[node exist](#)[node delete](#)[node iobject](#)[node show](#)[node show detailed](#)[node count](#)[node fields](#)[node iarray](#)[node iarray](#)[node is array](#)[node is object](#)[node select](#)[node uarray](#)[node uobject](#)[node darray](#)[node dobject](#)

node create <key>

Synonymous

[node create|insert|add](#)

Description

To create a new empty node

Parameters

key: The key -string - required

```
admin
node create "keyId"

mentdb
Node keyId created with successful.
```

node exist <key>

Description

To check if a node already exist

Parameters

key: The key -string - required

```
admin
node exist "keyId"

mentdb
1
```

node delete <key>

Description

To remove a node

Parameters

key: The key -string - required

```
admin
node delete "keyId"

mentdb
1
```

node iobject <key> <jPath> <fieldname> <value> <type>

Description

To insert an element into an object in a node

Parameters

key: The key -string - required

jPath: The JSON path -string - required

fieldname: The fieldname -string - required

value: The value -string - required

type: The type (NUM|INT|STR|BOOL|BOOL2|ARRAY|OBJ) -string - required

```
admin
node iobject "keyId" / a 5 NUM

mentdb
Inserted with successful.
```

```
admin
node iobject "keyId" / tab "[]" ARRAY

mentdb
Inserted with successful.
```

node show <key>

Description

To show a specific node

Parameters

key: The key -string - required

```
admin
node show "keyId"

mentdb
{<br>  "a": 5.0,<br>  "tab": [],<br>  "key": "keyId"<br>}
```

node show detailed <key>

Description

To show a node with detailed information

Parameters

key: The key -string - required

```
admin
node show detailed "keyId"

mentdb
{<br>  "data fileId": 0,<br>  "data filePosition": 1579520,<br>  "data": "{\"a\":5.0,\"tab\":[]}"<br>}
```

node count <key> <jPath>

Description

To count element in a node

Parameters

key: The key -string - required

jPath: The JSON path -string - required

```
admin
node count "keyId" /

mentdb
3
```

node fields <key> <jPath>

Description

To get all fields into an object in a node

Parameters

key: The key -string - required

jPath: The JSON path -string - required

```
admin
node fields "keyId" /

mentdb
[<br>  "a",<br>  "tab",<br>  "key"<br>]
```

node iarray <key> <jPath> <value> <type>

Description

To insert an element into an array in a node

Parameters

key: The key - string - required
jPath: The JSON path - string - required
value: The value - string - required
type: The type (NUM|INT|STR|BOOL|BOOL2|ARRAY|OBJ) - string - required

```
admin
node iarray "keyId" /tab test STR

mentdb
Inserted with successful.
```

```
admin
node iarray "keyId" /tab test2 STR

mentdb
Inserted with successful.
```

```
admin
node show "keyId"

mentdb
{<br>  "a": 5.0,<br>  "tab": [<br>    "test",<br>    "test2"<br>  ],<br>  "key": "keyId"<br>}
```

node iarray <key> <jPath> <index> <value> <type>

Description

To insert an element into an array in a node

Parameters

key: The key - string - required
jPath: The JSON path - string - required
index: The index position - string - required
value: The value - string - required
type: The type (NUM|INT|STR|BOOL|BOOL2|ARRAY|OBJ) - string - required

```
admin
node iarray "keyId" /tab 0 test STR

mentdb
Inserted with successful.
```

```
admin
node iarray "keyId" /tab test2 STR

mentdb
Inserted with successful.
```

```
admin
node show "keyId"

mentdb
{<br>  "a": 5.0,<br>  "tab": [<br>    "test",<br>    "test",<br>    "test2",<br>    "test2"]}
```

node is array <key> <jPath>

Description

To check if an element is an array in a node

Parameters

key: The key - string - required
jPath: The JSON path -string - required

```
admin
node is array "keyId" /tab

mentdb
1
```

node is object <key> <jPath>

Description

To check if an element is an object in a node

Parameters

key: The key - string - required
jPath: The JSON path -string - required

```
admin
node is object "keyId" /

mentdb
1
```

node select <key> <jPath>

Description

To select an element in a node

Parameters

key: The key - string - required
jPath: The JSON path -string - required

```
admin
node select "keyId" /a

mentdb
5.0
```

node uarray <key> <jPath> <index> <value> <type>

Description

To update an element into an array in a node

Parameters

key: The key -string - required
jPath: The JSON path -string - required
index: The index -integer - required
value: The value -string - required
type: The type (NUM|INT|STR|BOOL|BOOL2|ARRAY|OBJ) -string - required

```
admin
node uarray "keyId" /tab 1 test2 STR

mentdb
Updated with successful.
```

```
admin
node show "keyId"

mentdb
{<br>  "a": 5.0,<br>  "tab": [<br>    "test",<br>    "test2",<br>    "test2",<br>    "test2"]}
```

node uobject <key> <jPath> <fieldname> <value> <type>

Description

To update an element into an object in a node

Parameters

key: The key -string - required
jPath: The JSON path -string - required
fieldname: The fieldname -string - required
value: The value -string - required
type: The type (NUM|INT|STR|BOOL|BOOL2|ARRAY|OBJ) -string - required

```
admin
node uobject "keyId" / a 8 NUM

mentdb
Updated with successful.
```

```
admin
node show "keyId"

mentdb
{<br>  "a": 8.0,<br>  "tab": [<br>    "test",<br>    "test2",<br>    "test2",<br>    "test2"]}
```

node darray <key> <jPath> <index>

Description

To delete an element from an array in a node

Parameters

key: The key -string - required
jPath: The JSON path -string - required
index: The index -integer - required

```
admin
node darray "keyId" /tab 0

mentdb
Deleted with successful.
```

```
admin
node show "keyId"

mentdb
{<br>  "a": 8.0,<br>  "tab": [<br>    "test2",<br>    "test2",<br>    "test2"<br>  ],<br>
```

node dobject <key> <jPath> <fieldname>

Description

To delete an element from an object in a node

Parameters

key: The key -string - required
jPath: The JSON path -string - required
fieldname: The fieldname -string - required

```
admin
node dobject "keyId" / a

mentdb
Deleted with successful.
```

```
admin
node show "keyId"

mentdb
{<br>  "tab": [<br>    "test2",<br>    "test2",<br>    "test2"<br>  ],<br>  "key": "keyId"
```

Operator

- Like all languages, you have the basic operators.

<u>±</u>	<u>bi+</u>
<u>=</u>	<u>bi-</u>
<u>*</u>	<u>bi*</u>
<u>-</u>	<u>bi/</u>
<u>/</u>	<u>or</u>
<u>and</u>	<u>not</u>
<u>xor</u>	<u>is not null</u>
<u>is null</u>	<u>is empty</u>
<u>is null or empty</u>	<u>equal</u>
<u>is not empty</u>	<u>==</u>
<u>not equal</u>	<u>≥</u>
<u>!=</u>	<u>≤</u>
<u>≥</u>	
<u>≤</u>	

+ <number1> <number2>

Description

addition

Parameters

number1: The number 1 -number - required
number2: The number 2 -number - required

```
admin
+
+ 23 42

mentdb
65
```

bi+ <number1> <number2>

Description

addition

Parameters

number1: The number 1 -number - required
number2: The number 2 -number - required

admin
bi+ 23 42

mentdb
65

- <number1> <number2>

Description

substration

Parameters

number1: The number 1 -number - required

number2: The number 2 -number - required

admin
- 50 26

mentdb
24

bi- <number1> <number2>

Description

substration

Parameters

number1: The number 1 -number - required

number2: The number 2 -number - required

admin
bi- 50 26

mentdb
24

* <number1> <number2>

Description

multiplication

Parameters

number1: The number 1 -number - required

number2: The number 2 -number - required

admin
* 2 5

mentdb
10

bi* <number1> <number2>

Description

multiplication

Parameters

number1: The number 1 -number - required
number2: The number 2 -number - required

```
admin
bi* 2 5
```

```
mentdb
10
```

/ <number1> <number2>

Description

division

Parameters

number1: The number 1 -number - required
number2: The number 2 -number - required

```
admin
/ 30 2
```

```
mentdb
15
```

bi/ <number1> <number2>

Description

division

Parameters

number1: The number 1 -number - required
number2: The number 2 -number - required

```
admin
bi/ 30 2
```

```
mentdb
15
```

and <boolean1> <boolean2>

Description

and boolean

Parameters

boolean1: The boolean 1 -boolean - required
boolean2: The boolean 2 -boolean - required

```
admin
and 1 1

mentdb
1
```

or <boolean1> <boolean2>

Description

or boolean

Parameters

boolean1: The boolean 1 -boolean - required
boolean2: The boolean 2 -boolean - required

```
admin
or 1 0

mentdb
1
```

xor <boolean1> <boolean2>

Description

xor boolean

Parameters

boolean1: The boolean 1 -boolean - required
boolean2: The boolean 2 -boolean - required

```
admin
xor 1 0

mentdb
1
```

not <boolean>

Description

not boolean

Parameters

boolean: The boolean -boolean - required

```
admin
```

```
not 0
```

```
mentdb
```

```
1
```

is null <value>

Description

Check if the value is null

Parameters

value: The value - string - required

```
admin
```

```
is null null
```

```
mentdb
```

```
1
```

is not null <value>

Description

Check if the value is not null

Parameters

value: The value - string - required

```
admin
```

```
is not null null
```

```
mentdb
```

```
0
```

is null or empty <value>

Description

Check if the value is null or empty

Parameters

value: The value - string - required

```
admin
```

```
is null or empty null
```

```
mentdb
```

```
1
```

is empty <str>

Description

Check if the string is empty

Parameters

str: The string -string - required

```
admin
is empty ""

mentdb
1
```

is not empty <str>

Description

Check if the string is not empty

Parameters

str: The string -string - required

```
admin
is not empty ""

mentdb
0
```

equal <str1> <str2>

Description

Check if 2 strings are equal

Parameters

str1: The string 1 -string - required

str2: The string 2 -string - required

```
admin
equal "str1" "str1"

mentdb
1
```

not equal <str1> <str2>

Description

Check if 2 strings are not equal

Parameters

str1: The string 1 -string - required

str2: The string 2 -string - required

```
admin
not equal "str1" "str1"
```

```
mentdb
0
```

== <number1> <number2>

Description

Check if 2 numbers are equal

Parameters

number1: The number 1 -number - required

number2: The number 2 -number - required

```
admin
== "25" "25.0"
```

```
mentdb
1
```

!= <number1> <number2>

Description

Check if 2 numbers are not equal

Parameters

number1: The number 1 -number - required

number2: The number 2 -number - required

```
admin
!= "25" "25.0"
```

```
mentdb
0
```

> <number1> <number2>

Description

Check if a number is greater than another

Parameters

number1: The number 1 -number - required

number2: The number 2 -number - required

```
admin
> "27" "26.0"
```

```
mentdb
1
```

>= <number1> <number2>

Description

Check if a number is greater or equal than another

Parameters

number1: The number 1 -number - required
number2: The number 2 -number - required

```
admin
>= "26" "26.0"

mentdb
1
```

< <number1> <number2>

Description

Check if a number is less than another

Parameters

number1: The number 1 -number - required
number2: The number 2 -number - required

```
admin
< "25" "26.0"

mentdb
1
```

<= <number1> <number2>

Description

Check if a number is less or equal than another

Parameters

number1: The number 1 -number - required
number2: The number 2 -number - required

```
admin
<= "26" "26.0"

mentdb
1
```

OS

- Here you can call the OS.

<u>os version</u>	<u>os arch</u>
<u>os name</u>	<u>os type</u>
<u>os hostname</u>	<u>os user_timezone</u>
<u>os user_name</u>	<u>os user_lang</u>
<u>os user_home</u>	<u>os user_dir</u>
<u>os execute</u>	

os version

Description

To get the OS version

```
admin
os version

mentdb
10.12.6
```

os arch

Description

To get the OS architecture

```
admin
os arch

mentdb
x86_64
```

os name

Description

To get the OS name

```
admin
os name

mentdb
Mac OS X
```

os type

Description

To get the OS type

```
admin
os type

mentdb
Mac OS X
```

os hostname

Description

To get the OS hostname

```
admin
os hostname

mentdb
MacBook-Pro-de-Jimmytry.local
```

os user_timezone

Description

To get the OS user timezone

```
admin
os user_timezone

mentdb
Indian/Reunion
```

os user_name

Description

To get the OS user name

```
admin
os user_name

mentdb
jimmitry
```

os user_lang

Description

To get the OS user lang

```
admin
os user_lang

mentdb
fr
```

os user_home

Description

To get the OS user home

```
admin
os user_home

mentdb
/Users/jimmitry
```

os user_dir

Description

To get the OS user dir

```
admin
os user_dir

mentdb
/Users/jimmitry/Documents/jpayet/INNOV-AI/MENTDB/MentDB_Server
```

os execute <jsonCmdArray> <minWait>

Description

To execute command OS

Parameters

jsonCmdArray: The json command array -string - required
minWait: The min wait to get the result -number - required

```
admin
os execute ["uname", "-a"] 1000

mentdb
Darwin MacBook-Pro-de-Jimmmitry.local 16.7.0 Darwin Kernel Version 16.7.0: Thu Jun 15 17:36
```

[Home](#) > [MQL Functions](#)

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Parameter

- You have an ultra-fast global parameter engine.

[parameter add](#) [parameter create|insert|add](#)

[parameter exist](#)

[parameter get locked_dml](#)

[parameter remove](#)

[parameter unlock_dml](#)

[parameter lock_if_null](#)

[parameter generate merge](#)

[parameter merge](#)

[parameter get value](#) [get_param](#)

[parameter lock_dml](#)

[parameter show](#)

[parameter update](#)

[parameter generate update](#)

parameter add <key> <value> <locked>

Synonymous

[parameter create|insert|add](#)

Description

To add a new parameter

Parameters

key: The key - string - required

value: The value - integer - required

locked: The field is locked - boolean (1 or 0) - required

admin

parameter add test value 0

mentdb

Parameter added with successful.

parameter merge <key> <value> <locked>

Description

To merge a parameter

Parameters

key: The key - string - required

value: The value - integer - required

locked: The field is locked - boolean (1 or 0) - required

```
admin
parameter merge test value 0

mentdb
Parameter merged with successful.
```

parameter exist <key>

Description

To check if a parameter exist

Parameters

key: The key -string - required

```
admin
parameter exist test

mentdb
1
```

parameter get value <key>

Synonymous

get_param

Description

To get the parameter value

Parameters

key: The key -string - required

```
admin
parameter get value test

mentdb
value
```

```
admin
get_param test

mentdb
value
```

parameter get locked_dml <key>

Description

To get the parameter locked dml status

Parameters

key: The key -string - required

```
admin
parameter get locked_dml test

mentdb
0
```

parameter lock_dml <key>

Description

To lock a parameter

Parameters

key: The key -string - required

```
admin
parameter lock_dml test

mentdb
Parameter locked for dml with successful.
```

parameter remove <key>

Description

To remove a parameter

Parameters

key: The key -string - required

```
admin
parameter remove test

mentdb
Sorry, the parameter test is locked.
```

parameter show

Description

To show all parameters

```
admin
parameter show

mentdb
{<br>  "C[basic-search]": {<br>      "locked": "1",<br>      "value": "10"<br>    },<br>    "C[sym]
```

parameter unlock_dml <key>

Description

To unlock for DML a parameter

Parameters

key: The key -string - required

```
admin
parameter unlock_dml test

mentdb
Parameter unlocked for dml with successful.
```

parameter update <key> <value>

Description

To update a parameter

Parameters

key: The key -string - required

value: The value -integer - required

```
admin
parameter update test 67

mentdb
Parameter updated with successful.
```

```
admin
parameter get value test

mentdb
67
```

parameter lock_if_null <key> <value>

Description

To lock a parameter if the parameter is null. Return 0 if already locked. Return 1 if the parameter has been locked.

Parameters

key: The key -string - required

value: The value -integer - required

```
admin
parameter lock_if_null test 67

mentdb
1
```

parameter generate update <key>

Description

To generate an update parameter update request

Parameters

key: The key - string - required

```
admin
parameter generate update test

mentdb
parameter update "test" "67";
```

```
admin
parameter remove test

mentdb
Parameter removed with successful.
```

parameter generate merge <key>

Description

To generate a merge request

Parameters

key: The key - string - required

```
admin
parameter generate merge test

mentdb
parameter merge "test" "67" false;
```

```
admin
parameter remove test

mentdb
Parameter removed with successful.
```

PDF

- Manage PDF document.

```
pdf from html
```

pdf from html <html> <filePath>

Description

Generate a PDF from a HTML document.

Parameters

html: The html -string - required

filePath: The destination file path -string - required

```
admin
pdf from html (sql to html "session1" "products" (concat "select * from products")) "/User
mentdb
1
```

Predictive analysis

- Here you can make your predictive analysis.

pa polynomial curve fit get coeff	pa polynomial curve fit eval
pa polynomial curve fit eval incr	pa xy scatter
pa xy scatter	pa rl load
pa rl load from json	pa rl load empty
pa rl exist	pa rl show
pa rl add data	pa rl slope
pa rl intercept	pa rl predict
pa rl intercept std err	pa rl mean square error
pa rl count	pa rl r
pa rl sum squares	pa rl r square
pa rl significance	pa rl slope confidence interval
pa rl slope std err	pa rl sum squared errors
pa rl total sum squares	pa rl x sum squares
pa rl slope confidence interval	pa rl close
pa rl close all	pa rm load
pa rm load from json	pa rm set no intercept
pa rm calculate adjusted r squared	pa rm calculate residual sum of squares
pa rm calculate r squared	pa rm calculate total sum of squares
pa rm estimate error variance	pa rm estimate regressand variance
pa rm estimate regression standard error	pa rm estimate regression parameters variance
pa rm estimate residuals	pa rm estimate regression parameters standard errors
pa rm estimate regression parameters	pa rm predict
pa rm exist	pa rm show
pa rm close	pa rm close all

pa polynomial_curve_fit_get_coeff <data> <degree>

Description

Train and get polynomial curve coeff from [x,y]

Parameters

data: The json array of x,y -string - required

degree: The degree of the polynomial curve -number - required

```
admin
pa polynomial_curve_fit_get_coeff "[
[1.0, 2.0],
[1.0, 2.2],
[1.0, 2.5],
[1.2, 2.0],
[1.11, 0.9],
[5.0, 3.0],
[5.2, 3.08],
[5.1, 3.0],
[5.15, 2.9]
]" "3"

mentdb
"[7.499085083330208,-7.6240029798174,2.4585392371279067,-0.22286556119637468]"
```

pa polynomial_curve_fit_eval <coeff> <x>

Description

Eval a polynomial curve for specific value

Parameters

coeff: The json array coeff -string - required
x: The x to eval -number - required

```
admin
pa polynomial_curve_fit_eval "[7.499085083330208,-7.6240029798174,2.4585392371279067,-0.22286556119637468]"

mentdb
0.30231158263603675
```

pa polynomial_curve_fit_eval_incr <coeff> <min_x> <max_x> <increment>

Description

Eval a polynomial curve for a range

Parameters

coeff: The json array coeff -string - required
min_x: The min x to eval -number - required
max_x: The max x to eval -number - required
increment: The increment -number - required

```
admin
pa polynomial_curve_fit_eval_incr "[7.499085083330208,-7.6240029798174,2.4585392371279067,-0.22286556119637468]"

mentdb
[[1.0,2.1107557794443395],[1.1,1.7908802205034604],[1.2,1.5054663192661772]]
```

pa xy_scatter <jsonArray> <title>

Description

Show a scatter

Parameters

jsonArray: The json array of x,y -string - required
title: The title -string - required

```
admin
pa xy_scatter "[
  [1.0, 2.0],
  [1.0, 2.2],
  [1.0, 2.5],
  [1.2, 2.0],
  [1.11, 0.9],
  [5.0, 3.0],
  [5.2, 3.08],
  [5.1, 3.0],
  [5.15, 2.9]
]" "x, y"

mentdb
In editor ...
```

pa xy_scatter <cmld> <fieldX> <fieldY> <sqlSource>

Description

Show a predictive analysis scatter

Parameters

cmld: The database connection id -string - required
fieldX: The field X -string - required
fieldY: The field Y -string - required
sqlSource: The select query (origin) -string - required

```
admin
pa xy_scatter "demo_cm_mysql" "id" "quantity" "select * from products limit 0, 500"

mentdb
In editor ...
```

pa rl load <regId> <cmld> <fieldX> <fieldY> <sqlSource>

Description

Load a linear regression from the database

Parameters

regId: The regression id -string - required
cmld: The database connection id -string - required
fieldX: The field X -string - required
fieldY: The field Y -string - required
sqlSource: The select query (origin) -string - required

```
admin
pa rl load "reg1" "demo_cm_mysql" "id" "quantity" "select * from products limit 0, 500"

mentdb
1
```

pa rl load_from_json <regId> <jsonArray>

Description

Load a linear regression from a JSON array of doubles

Parameters

regId: The regression id -string - required
jsonArray: The json array -string - required

```
admin
pa rl load_from_json "reg1" "[
  [1.0, 2.0],
  [2.0, 3.0],
  [3.0, 4.0],
  [4.0, 5.0],
  [5.0, 6.0]
]"

mentdb
1
```

pa rl load_empty <regId>

Description

Load an empty linear regression

Parameters

regId: The regression id -string - required

```
admin
pa rl load_empty "reg1"

mentdb
1
```

pa rl exist <regId>

Description

Check if a regression already exist

Parameters

regId: The regression id -string - required

```
admin
pa rl exist "reg1"
```

```
mentdb
1
```

pa rl show

Description

Show all regressions

```
admin
pa rl show
```

```
mentdb
[<br> "reg1"<br>]
```

pa rl add_data <regId> <x> <y>

Description

Add data to a regression

Parameters

regId: The regression id -string - required

x: The x -number - required

y: The y -number - required

```
admin
pa rl add_data "reg1" 5 56
```

```
mentdb
1
```

pa rl slope <regId>

Description

Get the slope ($y = intercept + slope * x$)

Parameters

regId: The regression id -string - required

```
admin
pa rl slope "reg1"
```

```
mentdb
7.25
```

pa rl intercept <regId>

Description

Get the intercept ($y = \text{intercept} + \text{slope} * x$)

Parameters

regId: The regression id -string - required

```
admin
pa rl intercept "reg1"

mentdb
-11.5
```

pa rl predict <regId> <x>

Description

Make a prediction

Parameters

regId: The regression id -string - required

x: The x -number - required

```
admin
pa rl predict "reg1" 12

mentdb
75.5
```

pa rl intercept_std_err <regId>

Description

Returns the standard error of the intercept estimate, usually denoted $s(b_0)$.

Parameters

regId: The regression id -string - required

```
admin
pa rl intercept_std_err "reg1"

mentdb
19.764235376052373
```

pa rl mean_square_error <regId>

Description

Returns the sum of squared errors divided by the degrees of freedom, usually abbreviated MSE.

Parameters

regId: The regression id -string - required

```
admin
```

```
pa rl mean_square_error "reg1"
```

```
mentdb
```

```
390.625
```

pa rl count <regId>

Description

Get the number of couple

Parameters

regId: The regression id -string - required

```
admin
```

```
pa rl count "reg1"
```

```
mentdb
```

```
6
```

pa rl r <regId>

Description

Returns Pearson's product moment correlation coefficient, usually denoted r.

Parameters

regId: The regression id -string - required

```
admin
```

```
pa rl r "reg1"
```

```
mentdb
```

```
0.5564589284286688
```

pa rl sum_squares <regId>

Description

Returns the sum of squared deviations of the predicted y values about their mean (which equals the mean of y).

Parameters

regId: The regression id -string - required

```
admin
```

```
pa rl sum_squares "reg1"
```

```
mentdb
```

```
700.833333333334
```

pa rl r_square <regId>

Description

Returns the coefficient of determination, usually denoted r-square.

Parameters

regId: The regression id -string - required

```
admin
pa rl r_square "reg1"

mentdb
0.3096465390279824
```

pa rl significance <regId>

Description

Returns the significance level of the slope (equiv) correlation.

Parameters

regId: The regression id -string - required

```
admin
pa rl significance "reg1"

mentdb
0.2514643980065754
```

pa rl slope_confidence_interval <regId>

Description

Returns the half-width of a 95% confidence interval for the slope estimate.

Parameters

regId: The regression id -string - required

```
admin
pa rl slope_confidence_interval "reg1"

mentdb
15.027949957243381
```

pa rl slope_std_err <regId>

Description

Returns the standard error of the slope estimate, usually denoted s(b1).

Parameters

regId: The regression id -string - required

```
admin
```

```
pa rl slope_std_err "reg1"
```

```
mentdb
```

```
5.412658773652741
```

pa rl sum_squared_errors <regId>

Description

Returns the sum of squared errors (SSE) associated with the regression model.

Parameters

regId: The regression id -string - required

```
admin
```

```
pa rl sum_squared_errors "reg1"
```

```
mentdb
```

```
1562.5
```

pa rl total_sum_squares <regId>

Description

Returns the sum of squared deviations of the y values about their mean.

Parameters

regId: The regression id -string - required

```
admin
```

```
pa rl total_sum_squares "reg1"
```

```
mentdb
```

```
2263.333333333335
```

pa rl x_sum_squares <regId>

Description

Returns the sum of squared deviations of the x values about their mean.

Parameters

regId: The regression id -string - required

```
admin
```

```
pa rl x_sum_squares "reg1"
```

```
mentdb
```

```
13.33333333333334
```

pa rl slope_confidence_interval <regId> <alpha>

Description

Returns the half-width of a (100-100*alpha)% confidence interval for the slope estimate.

Parameters

regId: The regression id -string - required
alpha: The double alpha -number - not required

```
admin
pa rl slope_confidence_interval "reg1" 0.2

mentdb
51.80063969449396
```

pa rl close <regId>

Description

Close a regression

Parameters

regId: The regression id -string - required

```
admin
pa rl close "reg1"

mentdb
1
```

pa rl close_all

Description

Close all regressions

```
admin
pa rl close_all

mentdb
1
```

pa rm load <regId> <cmld> <fieldX1> <fieldX2> <fieldX3> <fieldX4> <fieldX5> <fieldY> <sqlSource>

Description

Load a multiple regression from the database

Parameters

regId: The regression id -string - required
cmld: The database connection id -string - required
fieldX1: The field X1 -string - required
fieldX2: The field X2 -string - required
fieldX3: The field X3 -string - required
fieldX4: The field X4 -string - required

fieldX5: The field X5 -string - required
fieldY: The field X -string - required
sqlSource: The select query (origin) -string - required

```
admin
pa rm load "reg1" "demo_cm_mysql" "id" "quantity" "" "" "" "price" "select * from products
mentdb
1
```

pa rm load_from_json <regId> <jsonArrayX> <jsonArrayY>

Description

Load a multilple regression from two JSON array of doubles

Parameters

regId: The regression id -string - required
jsonArrayX: The json array X -string - required
jsonArrayY: The json array Y -string - required

```
admin
pa rm load_from_json "reg1" "[
  [ 1.0, 23.457 ],
  [ 2.0, 29.987 ],
  [ 3.0, 89.987 ],
  [ 4.0, 99.098 ],
  [ 5.0, 123.08 ]
]" "[7.5, 9.8, 14.7, 14.7, 19.4]"

mentdb
1
```

pa rm set_no_intercept <regId> <bool>

Description

Set no intercept

Parameters

regId: The regression id -string - required
bool: The boolean -boolean - required

```
admin
pa rm set_no_intercept "reg1" true

mentdb
1
```

pa rm calculate_adjusted_r_squared <regId>

Description

Returns the adjusted R-squared statistic, defined by the formula $R2adj = 1 - [SSR(n - 1)] / [SSTO(n - p)]$

Parameters

regId: The regression id -string - required

```
admin
pa rm calculate_adjusted_r_squared "reg1"

mentdb
0.9930302201822587
```

pa rm calculate_residual_sum_of_squares <regId>

Description

Returns the sum of squared residuals.

Parameters

regId: The regression id -string - required

```
admin
pa rm calculate_residual_sum_of_squares "reg1"

mentdb
2.6787094169120644
```

pa rm calculate_r_squared <regId>

Description

Returns the R-Squared statistic, defined by the formula $R^2 = 1 - \frac{SSR}{SSTO}$

Parameters

regId: The regression id -string - required

```
admin
pa rm calculate_r_squared "reg1"

mentdb
0.9972120880729035
```

pa rm calculate_total_sum_of_squares <regId>

Description

Returns the sum of squared deviations of Y from its mean.

Parameters

regId: The regression id -string - required

```
admin
pa rm calculate_total_sum_of_squares "reg1"

mentdb
960.829999999999
```

pa rm estimate_error_variance <regId>

Description

Estimates the variance of the error.

Parameters

regId: The regression id -string - required

```
admin
pa rm estimate_error_variance "reg1"

mentdb
1.3393547084560322
```

pa rm estimate_regressand_variance <regId>

Description

Returns the variance of the regressand, ie Var(y).

Parameters

regId: The regression id -string - required

```
admin
pa rm estimate_regressand_variance "reg1"

mentdb
21.746999999999996
```

pa rm estimate_regression_standard_error <regId>

Description

Estimates the standard error of the regression.

Parameters

regId: The regression id -string - required

```
admin
pa rm estimate_regression_standard_error "reg1"

mentdb
1.1573049332202954
```

pa rm estimate_regression_parameters_variance <regId>

Description

Estimates the variance of the regression parameters, ie Var(b).

Parameters

regId: The regression id -string - required

```
admin
pa rm estimate_regression_parameters_variance "reg1"

mentdb
[<br> 1.1939297361248733,<br> -0.6413091167219049,<br> 0.01271847265850733]
```

pa rm estimate_residuals <regId>

Description

Estimates the residuals, ie $u = y - X^*b$.

Parameters

regId: The regression id -string - required

```
admin
pa rm estimate_residuals "reg1"

mentdb
[<br> -0.21160225532182864,<br> 0.39217249531173515,<br> 0.5051039893042244,<br> -1.34]
```

pa rm estimate_regression_parameters_standard_errors <regId>

Description

Returns the standard errors of the regression parameters.

Parameters

regId: The regression id -string - required

```
admin
pa rm estimate_regression_parameters_standard_errors "reg1"

mentdb
[<br> 1.264553444360703,<br> 1.3397786414221338,<br> 0.04802653051960952<br>]
```

pa rm estimate_regression_parameters <regId>

Description

Estimates the regression parameters b.

Parameters

regId: The regression id -string - required

```
admin
pa rm estimate_regression_parameters "reg1"

mentdb
[<br> 5.036908634809639,<br> 1.3187573895222953,<br> 0.05780518527475357<br>]
```

pa rm predict <regId> <jsonX>

Description

Make a prediction

Parameters

regId: The regression id -string - required

jsonX: The json that contains an array of x -string - required

```
admin
pa rm predict "reg1" "[12, 34]"

mentdb
22.827373608418803
```

pa rm exist <regId>

Description

Check if a regression already exist

Parameters

regId: The regression id -string - required

```
admin
pa rm exist "reg1"

mentdb
1
```

pa rm show

Description

Show all regressions

```
admin
pa rm show

mentdb
[<br>  "reg1"<br>]
```

pa rm close <regId>

Description

Close a regression

Parameters

regId: The regression id -string - required

```
admin
pa rm close "reg1"

mentdb
1
```

pa rm close_all

Description

Close all regressions

```
admin
pa rm close_all

mentdb
1
```

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Relation

- Here you can create relationships between thoughts, or other relationships.
- A relation can be stimulated and all these sub relationships can go up.

[relation create](#) [relation create|insert|add](#)
[relation translate](#)
[relation execute](#)
[relation show thought nodes](#)
[relation delete](#)

[relation show sentence](#)
[relation search](#)
[relation show thoughts](#)
[relation stimulate](#)

relation create <thoughtOrRelations> <lang> <context> <mql>

Synonymous

relation create|insert|add

Description

To insert a new relation

Parameters

thoughtOrRelations: Thoughts or relations -string - required
lang: The language id -string - required
context: The context of the relation -string - required
mql: The source code to execute -string - required

```
admin
relation create (concat
  (word create a en false) " "
  (word create dog en false) " "
  (word create is en false) " "
  (word create an en false) " "
  (word create animal en false) " "
  (word create . en false)
) en "context1" (mql {
  "ok";
});
```

```
mentdb
RL[v]
```

```
admin
relation show sentence RL[v]

mentdb
something is something
```

relation show sentence <relationId>

Description

To show the sentence of a relation

Parameters

relationId: The relation id -string - required

```
admin
relation show sentence RL[w];

mentdb
a dog is an animal
```

relation translate <relationId> <cooperation> <lang> <level> <th_N>

Description

Try to get a translation of a relation

Parameters

relationId: The relation id -string - required

cooperation: The percent cooperation (between 0 and 100) -number - required

lang: The language -string - required

level: The level (vous) -string - required

th_N: The TH value -string - not required

```
admin
relation translate RL[w] 100 en "";
mentdb
a dog is an animal
```

relation search <text> <lang> <searchPunctuation>

Description

To make a basic search on thoughts

Parameters

text: The text (separate by a space) -string - required

lang: The language -string - required

searchPunctuation: Search punctuations (1|0) -boolean - required

```
admin
relation search "dog" "en" false

mentdb
...
```

relation execute <text> <context_obj> <context_size> <lang> <searchPunctuation>

Description

To execute a relation

Parameters

text: The text (separate by a space) -string - required
context_obj: The current context object -string - required
context_size: The current context size -string - required
lang: The language -string - required
searchPunctuation: Search punctuations (1|0) -boolean - required

```
admin
relation execute "dog" "{}" 30 "en" false

mentdb
...
```

relation show thoughts <relationId>

Description

To show all thoughts in a relation

Parameters

relationId: The relation id -string - required

```
admin
relation show thoughts RL[w]

mentdb
...
```

relation show thought nodes <relationId>

Description

To show all thought nodes in a relation

Parameters

relationId: The relation id -string - required

```
admin
relation show thought nodes RL[w]

mentdb
...
```

relation stimulate <relationId>

Description

To stimulate a relation

Parameters

relationId: The relation id -string - required

```
admin
relation stimulate RL[w]

mentdb
Relation RL[w] stimulated with successful.
```

relation delete <relationId>

Description

To a relation

Parameters

relationId: The relation id -string - required

```
admin
relation delete RL[w]

mentdb
Relation 'RL[w]' deleted with successful.
```

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Script

- MQL functions can be saved in a script.
- You can call these scripts inside the mental processes.
- Or directly in web-service.

script create	script update
script set delay	script get
script generate create	script generate update
script copy	script copy all
script rename	script rename all
script exist	script show
script show ghost	script export all
script export group	script import group
script get all	execute
call	include
script is granted	script generate url
script generate delay	script generate execute
script generate stack	script generate call
script generate include	script generate sub include
script show groups	script show users
script delete	script delete all

script create <method> <scriptName> <activateLog> <nbAttempt> <variables> <desc> <script> <return>

Synonymous

[script create|insert|add](#)

Description

To create a new script

Parameters

method: The method (post|get|put|delete|exe|conf|app) - string - required
 scriptName: The script name - string - required
 activateLog: Activate the log activity (true|false) - boolean - required
 nbAttempt: Nb attempt to execute into the stack - number - required
 variables: The variables object - string - required
 desc: The description of the script action - string - required
 script: The script - string - required
 return: The description of the return value - string - required

```
admin
script create post "addition" false 1
(param
  (var "[v1]" {type is_double [v1]} "description ..." is_null:true is_empty:true "example"
  (var "[v2]" {type is_double [v2]} "description ..." is_null:true is_empty:true "example"
)
"description ..."

{
  + [v1] [v2];
}

} "Return ...";

mentdb
Script added with successful.
```

script update <scriptName> <activateLog> <nbAttempt> <variables> <desc> <script> <return>

Description

To update a script

Parameters

scriptName: The script name -string - required
activateLog: Activate the log activity (true|false) -boolean - required
nbAttempt: Nb attempt to execute into the stack -number - required
variables: The variables separate by ',' -string - required
desc: The description of the script action -string - required
script: The script -string - required
return: The description of the return value -string - required

```
admin
script update "addition.post" false 1
(param
  (var "[v1]" {type is_double [v1]} "description ..." is_null:true is_empty:true "example"
  (var "[v2]" {type is_double [v2]} "description ..." is_null:true is_empty:true "example"
)
"description ..."

{
  + [v1] [v2];
}

} "Return ...";

mentdb
Script updated with successful.
```

script set delay <scriptName> <delayValue> <delayType> <delayCondition>

Description

To the delay options

Parameters

scriptName: The script name -string - required
delayValue: The delay value -string - required
delayType: The delay type (sec|min|hour|day|month|year) -string - required

delayCondition: The delay condition -string - required

```
admin
script set delay "addition.post" 10 day {
    true
}

mentdb
1
```

script get <scriptName>

Description

To get a script object

Parameters

scriptName: The script name -string - required

```
admin
script get "addition.post"

mentdb
{<br>    "delay_condition": "\n\ttrue\n",<br>    "delay_type": "day",<br>    "activateLog": "0"
```

script generate create <scriptName>

Description

To generate a create script request

Parameters

scriptName: The script name -string - required

```
admin
script generate create "addition.post"

mentdb
script create post "addition" false 1
    (param
        (var "[v1]" {type is_double [v1]} "description ..." is_null:true is_empty:true "example"
        (var "[v2]" {type is_double [v2]} "description ..." is_null:true is_empty:true "example"
        ;
        "description ..."
    {
        + [v1] [v2];
    } "Return ...";
```

script generate update <scriptName>

Description

To generate an update script request

Parameters

scriptName: The script name -string - required

```
admin
script generate update "addition.post"

mentdb
script update "addition.post" false 1
(param
  (var "[v1]" {type is_double [v1]} "description ..." is_null:true is_empty:true "example"
  (var "[v2]" {type is_double [v2]} "description ..." is_null:true is_empty:true "example"
  ;
  "description ..."
{
  +
  [v1] [v2];
} "Return ...";
```

script copy <oldScriptName> <method> <newScriptName>

Description

To copy a script

Parameters

oldScriptName: The old script name -string - required

method: The method (post|get|put|delete) -string - required

newScriptName: The new script name -string - required

```
admin
script copy "addition.post" post "addition2"

mentdb
1
```

script copy all <startsWithScriptName> <replacement>

Description

To copy all scripts

Parameters

startsWithScriptName: The starts with script name -string - required

replacement: The replacement path -string - required

```
admin
script copy all "addition." "addition3."

mentdb
1
```

script rename <oldScriptName> <method> <newScriptName>

Description

To rename a script

Parameters

oldScriptName: The old script name -string - required
method: The method (post|get|put|delete) -string - required
newScriptName: The new script name -string - required

```
admin
script rename "addition2.post" post "addition4"

mentdb
1
```

script rename all <startsWithScriptName> <replacement>

Description

To rename all scripts

Parameters

startsWithScriptName: The starts with script name -string - required
replacement: The replacement path -string - required

```
admin
script rename all "addition4." "addition5."

mentdb
1
```

script exist <scriptName>

Description

To check if a script already exist

Parameters

scriptName: The script name -string - required

```
admin
script exist "addition.post"

mentdb
1
```

script show

Description

To show all scripts

```
admin
script show

mentdb
{<br> "app.100.obj.chartjs.time_courbe.exe": 0,<br> "app.100.template.default.page.login
```

script show ghost

Description

To show all ghost scripts

```
admin
script show ghost

mentdb
{}
```

script export_all

Description

To export all scripts

```
admin
script export_all

mentdb
Scripts exported with successfully.
```

script export_group <group>

Description

To export all scripts from a group to file

Parameters

group: The group name -string - required

```
admin
script export_group "group"

mentdb
Scripts exported with successfully.
```

script import_group <group>

Description

To import all scripts from file to a group

Parameters

group: The group name - string - required

```
admin
script import_group "group"

mentdb
Scripts imported with successfully.
```

script get_all

Description

To get all scripts

```
admin
script get_all;1

mentdb
Warning, The scripts are loaded into the editor ...
```

execute <scriptName> <varName1> <varvalue1> <varNameN> <varvalueN>

Description

To execute a script in a new environment

Parameters

scriptName: The script name - string - required
varName1: The variable name 1 - string - not required
varvalue1: The value 1 - string - not required
varNameN: The variable name N - string - not required
varvalueN: The value N - string - not required

```
admin
execute "addition.post" "[v1]" 10 "[v2]" 5

mentdb
15
```

call <scriptName> <varName1> <varvalue1> <varNameN> <varvalueN>

Description

To execute a script in the parent environment

Parameters

scriptName: The script name - string - required
varName1: The variable name 1 - string - not required
varvalue1: The value 1 - string - not required
varNameN: The variable name N - string - not required
varvalueN: The value N - string - not required

```
admin
call "addition.post" "[v1]" 10 "[v2]" 5

mentdb
15
```

include <scriptName>

Description

To execute a script in the parent environment

Parameters

scriptName: The script name -string - required

```
admin
include "addition.post" "[v1]" 10 "[v2]" 5

mentdb
15
```

script is granted <scriptName> <login>

Description

To check if a script is granted to a specific user

Parameters

scriptName: The script name -string - required

login: The login -string - required

```
admin
script is granted "addition.post" "admin"

mentdb
1
```

script generate url <scriptName>

Description

To generate an URL to execute a mental script

Parameters

scriptName: The script name -string - required

```
admin
script generate url "addition.post"

mentdb
Method

Header
x-token = (empty or not define the first time)
x-user = mentdb (required the first time)
x-password = ***** (required the first time)
URL
https://localhost:9999/api/?x-token=&x-user=&x-password=&v1=&v2=
```

script generate delay <scriptName>

Description

To generate delay options

Parameters

scriptName: The script name -string - required

```
admin
script generate delay "addition.post"

mentdb
j23i88m90m76i39t04r09y35p14a96y09e57t36script set delay "addition.post" 10 day {
    true
};
```

script generate execute <scriptName>

Description

To generate a MQL execute script

Parameters

scriptName: The script name -string - required

```
admin
script generate execute "addition.post"

mentdb
execute "addition.post"
    "[v1]" "example ..."
    "[v2]" "example ..."
;
```

script generate stack <scriptName>

Description

To generate a MQL stack script

Parameters

scriptName: The script name -string - required

```
admin
script generate stack "addition.post"

mentdb
stack (date now) "addition.post"
"[v1]" "example ..."
"[v2]" "example ..."
;
```

script generate call <scriptName>

Description

To generate a MQL call script

Parameters

scriptName: The script name -string - required

```
admin
script generate call "addition.post"

mentdb
call "addition.post"
"[v1]" "example ..."
"[v2]" "example ..."
;
```

script generate include <scriptName>

Description

To generate a MQL call script

Parameters

scriptName: The script name -string - required

```
admin
script generate include "addition.post"

mentdb
include "addition.post"
"[v1]" "example ..."
"[v2]" "example ..."
;
```

script generate sub_include <scriptName>

Description

To generate a MQL sub include script

Parameters

scriptName: The script name -string - required

```
admin
script generate sub_include "addition.post"

mentdb
concat "include \"addition.post\""
\"[v1]\" \" (string mql_encode [v1]) \"\
\"[v2]\" \" (string mql_encode [v2]) \"\
;"
```

script show groups <scriptName>

Description

To show all groups for a specific script

Parameters

scriptName: The script name -string - required

```
admin
script show groups "addition.post"

mentdb
{
  "sys": 0,
  "mentdb": 0
}
```

script show users <scriptName>

Description

To show all granted users for a specific script

Parameters

scriptName: The script name -string - required

```
admin
script show users "addition.post"

mentdb
{
  "ai": 0,
  "admin": 0,
  "mentdb": 0
}
```

script delete <scriptName>

Description

To delete a script

Parameters

scriptName: The script name -string - required

```
admin
script delete "addition.post"

mentdb
Script deleted with successful.
```

script delete all <startsWithScriptName>

Description

To delete all scripts

Parameters

startsWithScriptName: The starts with script name -string - required

```
admin
script delete all "addition"

mentdb
1
```

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SCRUD

- Generate SCRUD operations.

[scrud select](#)
[scrud create](#)
[scrud db_to_db](#)
[scrud insert](#)
[scrud merge](#)

[scrud export](#)
[scrud parse](#)
[scrud csv_to_db](#)
[scrud update](#)
[scrud delete](#)

scrud select <cmld> <tableName>

Description

Generate a select SCRUD operation.

Parameters

cmld: The connection id (SQL database) -string - required

tableName: The table name -string - required

```

admin
scrud select "demo_cm_mysql" "products";

mentdb
script create get "demo_cm_mysql.products.select" false 1
  (param
    (var "[id]" {true} "description ..." is_null:false is_empty:false "example ...")
  )
  "Return rows from the table 'products' in JSON."
{
  try {
    #Connection ...
    sql connect "session1" {cm get "demo_cm_mysql"};
    -> "[json_result]" (sql to json "session1" "products" (concat
      "SELECT
        `id`,
        `name`,
        `quantity`,
        `cat`,
        `desc`,
        `dtcreate`,
        `type`,
        `subtype`,
        `price`,
        `sale`,
        `weight`
      FROM `products`
      WHERE
        `id`=" (sql encode [id]) "
      LIMIT 0, 100;
    ));
    #Disconnection ...
    sql disconnect "session1";
    # Return the json;
    [json_result]
  } {
    #Close the connection;
    try {sql disconnect "session1"} {} "[sub_err]";
    #Generate an error;
    exception (1) ([err]);
    } "[err]";
  } "Return a JSON Object";
}

```

scrud export <cmld> <tableName>

Description

Generate an export SCRUD operation.

Parameters

cmld: The connection id (SQL database) -string - required
 tableName: The table name -string - required

```

admin
scrud export "demo_cm_mysql" "products";

mentdb
script create exe "demo_cm_mysql.products.export" false 1
(param
  (var "[directory]" {true} "The directory" is_null:false is_empty:false "/Users/jimmitry"
  (var "[filename]" {true} "The file name" is_null:false is_empty:false "test")
(var "[format]" {type is_enum [format] "json,xml,csv,excel,excelx,html,pdf"} "the format"
  (var "[id]" {true} "description ..." is_null:false is_empty:false "example ...")
)
"Export the table 'products'."

{
try {

#Connection ...
sql connect "session1" {cm get "demo_cm_mysql"};

-> "[query]" (concat "SELECT
`id`,
`name`,
`quantity`,
`cat`,
`desc`,
`dtcreate`,
`type`,
`subtype`,
`price`,
`sale`,
`weight`
FROM `products`
WHERE
`id`=" (sql encode [id]) "
LIMIT 0, 100;");

switch ([format])
("json") {
  file create (concat [directory] "/" [filename] ".json") (sql to json "session1" "product"
}
("xml") {
  file create (concat [directory] "/" [filename] ".xml") (sql to xml "session1" "product"
}
("csv") {
  file create (concat [directory] "/" [filename] ".csv") (sql to csv "session1" "product"
}
("excel") {
  sql to excel "session1" "products" (concat [query]) (concat [directory] "/" [filename]
}
("excelx") {
  sql to excelx "session1" "products" (concat [query]) (concat [directory] "/" [filename]
}
("html") {
  file create (concat [directory] "/" [filename] ".html") (sql to html "session1" "product"
}
("pdf") {
  sql to pdf "session1" "products" (concat [query]) (concat [directory] "/" [filename]
}
{exception (1) ("Sorry, the export format must be 'json|xml|csv|excel|excelx|html|pdf'.
;

#Disconnection ...
sql disconnect "session1";

} {
#Close the connection;
try {sql disconnect "session1"} {} "[sub_err]";

```

```
#Generate an error;
exception (1) ([err]);

} "[err]";

} "Return nothing";
```

scrud create <cmld> <tableName>

Description

Generate a create SCRUD operation.

Parameters

cmld: The connection id (SQL database) -string - required
tableName: The table name -string - required

```
admin
scrud create "demo_cm_mysql" "products";

mentdb
CREATE TABLE `products` (
`id` bigint(11) NOT NULL auto_increment,
`name` varchar(45) NOT NULL ,
`quantity` int(11) NOT NULL ,
`cat` varchar(45) NULL DEFAULT NULL,
`desc` longtext NULL DEFAULT NULL,
`dtcreate` datetime NULL DEFAULT NULL,
`type` char(1) NULL DEFAULT 'A',
`subtype` enum('1','R','T') NULL DEFAULT NULL,
`price` decimal(10,2) NULL DEFAULT NULL,
`sale` binary(1) NULL DEFAULT NULL,
`weight` double NULL DEFAULT NULL,
PRIMARY KEY (
`id`
)
);
```

scrud parse <cmld> <tableName>

Description

Generate a select SCRUD operation to parse.

Parameters

cmld: The connection id (SQL database) -string - required
tableName: The table name -string - required

```
admin
scrud parse "demo_cm_mysql" "products";

mentdb
script create exe "demo_cm_mysql.products.parse_and_action" false 1
(param
  (var "[id]" {true} "description ..." is_null:false is_empty:false "example ...")
)
"Execute MQL action on the table 'products'."
```

```

try {

#Connection ...
sql connect "session1" {cm get "demo_cm_mysql"};

-> "[json_result]" (sql parse "session1" "T" (concat
"SELECT
`id`,
`name`,
`quantity`,
`cat`,
`desc`,
`dtcreate`,
`type`,
`subtype`,
`price`,
`sale`,
`weight`
FROM `products`
WHERE
`id`=" (sql encode [id]) "
LIMIT 0, 100;") {

#Here the fields ...
[T_name];
[T_quantity];
[T_cat];
[T_desc];
[T_dtcreate];
[T_type];
[T_subtype];
[T_price];
[T_sale];
[T_weight];

#Here your MQL code ...;

});

#Disconnection ...
sql disconnect "session1";

# Return the json;
[json_result]

} {

#Close the connection;
try {sql disconnect "session1"} {} "[sub_err]";

#Generate an error;
exception (1) ([err]);

} "[err]";

} "Return a JSON result with all return lines.";
```

scrud db_to_db <cmld> <tableName>

Description

Generate SCRUD operations from db to db.

Parameters

cmld: The connection id (SQL database) -string - required
tableName: The table name -string - required

```
admin
scrud db_to_db "demo_cm_mysql" "products";

mentdb
...
```

scrud csv_to_db <cmld> <tableName> <csv_filePath> <csv_columnSeparator> <csv_quoteChar>
<csv_forceColumnNames>

Description

Generate SCRUD operations from csv to db.

Parameters

cmld: The connection id (SQL database) -string - required
tableName: The table name -string - required
csv_filePath: The file path -string - required
csv_columnSeparator: The column separator -string - required
csv_quoteChar: The quote char -string - required
csv_forceColumnNames: To force the column name (can be empty) -string - required

```
admin
scrud csv_to_db "demo_cm_mysql" "products" "/Users/jimmytry/Desktop/file.csv" "," "" "A,B"
mentdb
...
```

scrud insert <cmld> <tableName>

Description

Generate an insert SCRUD operation.

Parameters

cmld: The connection id (SQL database) -string - required
tableName: The table name -string - required

```
admin
scrud insert "demo_cm_mysql" "products";

mentdb
script create post "demo_cm_mysql.products.insert" false 1
(param
  (var "[id]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[name]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[quantity]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[cat]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[desc]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[dtcreate]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[type]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[subtype]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[price]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[sale1]" {true} "description ..." is_null:false is_empty:false "example ...")
```

```

`var [value] {true} description ... is_nullable is_empty:false example ...,
(var "[weight]" {true} "description ..." is_null:false is_empty:false "example ...")
)
"Insert a new element into the table 'products'."
{

try {

#Connection ...
sql connect "session1" {cm get "demo_cm_mysql"};

-> "[result]" (sql dml "session1" (concat
"INSERT INTO `products` (
`id`,
`name`,
`quantity`,
`cat`,
`desc`,
`dtcreate`,
`type`,
`subtype`,
`price`,
`sale`,
`weight`
) VALUES (
" (sql encode [id]) " ,
" (sql encode [name]) " ,
" (sql encode [quantity]) " ,
" (sql encode [cat]) " ,
" (sql encode [desc]) " ,
" (sql encode [dtcreate]) " ,
" (sql encode [type]) " ,
" (sql encode [subtype]) " ,
" (sql encode [price]) " ,
" (sql encode [sale]) " ,
" (sql encode [weight]) "
);"
));

#Disconnection ...
sql disconnect "session1";

# Return the json;
[result]

} {

#Close the connection;
try {sql disconnect "session1"} {} "[sub_err]";

#Generate an error;
exception (1) ([err]);

} "[err]";

} "Return the number of impacted lines.";

```

scrud update <cmld> <tableName>

Description

Generate an update SCRUD operation.

Parameters

cmld: The connection id (SQL database) -string - required
tableName: The table name -string - required

```
admin
scrud update "demo_cm_mysql" "products";

mentdb
script create put "demo_cm_mysql.products.update" false 1
(param
  (var "[id]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[name]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[quantity]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[cat]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[desc]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[dtcreate]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[type]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[subtype]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[price]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[sale]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[weight]" {true} "description ..." is_null:false is_empty:false "example ...")
)
"Update an element into the table 'products'."
{

try {
#Connection ...
sql connect "session1" {cm get "demo_cm_mysql"};

-> "[result]" (sql dml "session1" (concat
"UPDATE `products` SET
`name`=" (sql encode [name]) " ,
`quantity`=" (sql encode [quantity]) " ,
`cat`=" (sql encode [cat]) " ,
`desc`=" (sql encode [desc]) " ,
`dtcreate`=" (sql encode [dtcreate]) " ,
`type`=" (sql encode [type]) " ,
`subtype`=" (sql encode [subtype]) " ,
`price`=" (sql encode [price]) " ,
`sale`=" (sql encode [sale]) " ,
`weight`=" (sql encode [weight]) "
WHERE
`id`=" (sql encode [id]) "
;
));

#Disconnection ...
sql disconnect "session1";

# Return the json;
[result]

} {

#Close the connection;
try {sql disconnect "session1"} {} "[sub_err]";

#Generate an error;
exception (1) ([err]);

} "[err]";

} "Return the number of impacted lines.";
```

scrud merge <cmld> <tableName>

Description

Generate a merge SCRUD operation.

Parameters

cmld: The connection id (SQL database) -string - required
tableName: The table name -string - required

```
admin
scrud merge "demo_cm_mysql" "products";

mentdb
script create post "demo_cm_mysql.products.merge" false 1
(param
  (var "[id]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[name]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[quantity]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[cat]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[desc]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[dtcreate]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[type]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[subtype]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[price]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[sale]" {true} "description ..." is_null:false is_empty:false "example ...")
  (var "[weight]" {true} "description ..." is_null:false is_empty:false "example ...")
)
"Insert a new element into the table 'products'."
{

try {

#Connection ...
sql connect "session1" {cm get "demo_cm_mysql"};

-> "[result]" (sql dml "session1" (concat
  "INSERT INTO `products` (
    `id`,
    `name`,
    `quantity`,
    `cat`,
    `desc`,
    `dtcreate`,
    `type`,
    `subtype`,
    `price`,
    `sale`,
    `weight`
  ) VALUES (
    " (sql encode [id]) " ,
    " (sql encode [name]) " ,
    " (sql encode [quantity]) " ,
    " (sql encode [cat]) " ,
    " (sql encode [desc]) " ,
    " (sql encode [dtcreate]) " ,
    " (sql encode [type]) " ,
    " (sql encode [subtype]) " ,
    " (sql encode [price]) " ,
    " (sql encode [sale]) " ,
    " (sql encode [weight]) "
  ) ON DUPLICATE KEY UPDATE
    `name`=" (sql encode [name]) " ,
    `quantity`=" (sql encode [quantity]) " ,
    `cat`=" (sql encode [cat]) " ,
    `desc`=" (sql encode [desc]) " ,
    `dtcreate`=" (sql encode [dtcreate]) " ,
    `type`=" (sql encode [type]) " ,
```

```
`subtype`=" (sql encode [subtype]) " ,  
`price`=" (sql encode [price]) " ,  
`sale`=" (sql encode [sale]) " ,  
`weight`=" (sql encode [weight]) ";"  
));  
  
#Disconnection ...;  
sql disconnect "session1";  
  
# Return the json;  
[result]  
  
} {  
  
#Close the connection;  
try {sql disconnect "session1"} {} "[sub_err]";  
  
#Generate an error;  
exception (1) ([err]);  
  
} "[err]";  
  
} "Return the number of impacted lines.";
```

scrud delete <cmld> <tableName>

Description

Generate a delete SCRUD operation.

Parameters

cmld: The connection id (SQL database) -string - required

tableName: The table name -string - required

```
admin
scrud delete "demo_cm_mysql" "products";

mentdb
script create delete "demo_cm_mysql.products.delete" false 1
  (param
    (var "[id]" {true} "description ..." is_null:false is_empty:false "example ...")
  )
  "Delete an element from the table 'products'." 
{ 

try {
  
#Connection ...
sql connect "session1" {cm get "demo_cm_mysql"};
 
-> "[result]" (sql dml "session1" (concat
  "DELETE FROM `products`"
  "WHERE"
  "`id`=" (sql encode [id]) "
  ;
));
 
#Disconnection ...
sql disconnect "session1";
 
# Return the json;
[result]

} {

#Close the connection;
try {sql disconnect "session1"} {} "[sub_err]";

#Generate an error;
exception (1) ([err]);

} "[err]";

} "Return the number of impacted lines.";
```

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Sequence

- You can manage sequences (base 26) as a standard database.

[sequence show](#)

[sequence add sequence create|insert|add](#)

[sequence increment](#)

[sequence generate update](#)

[sequence get current](#)

[sequence exist](#)

[sequence update](#)

[sequence remove](#)

sequence show

Description

To show all sequences

admin

[sequence show](#)

mentdb

```
{<br>  "relation-O": "-1",<br>  "thought": "89",<br>  "relation-I": "5",<br>  "relation-L": "
```

sequence get current <key>

Description

To get the current sequence value

Parameters

key: The key - string - required

admin

[sequence get current "thought"](#)

mentdb

6z

sequence add <key> <value>

Synonymous

[sequence create|insert|add](#)

Description

To add a new sequence

Parameters

key: The key - string - required
value: The value - integer - required

```
admin
sequence add "test" 0

mentdb
Sequence added with successful.
```

sequence exist <key>

Description

To check if a sequence exist

Parameters

key: The key - string - required

```
admin
sequence exist "test"

mentdb
1
```

sequence increment <key>

Description

To increment a sequence value+1

Parameters

key: The key - string - required

```
admin
sequence increment "test"

mentdb
1
```

```
admin
sequence increment "test"

mentdb
2
```

sequence update <key> <value>

Description

To update a sequence

Parameters

key: The key - string - required

value: The value - integer - required

```
admin
sequence update "test" 67

mentdb
Sequence updated with successful.
```

```
admin
sequence get current "test"

mentdb
67
```

sequence generate update <key>

Description

To generate an update sequence update request

Parameters

key: The key - string - required

```
admin
sequence generate update "test"

mentdb
sequence update "test" "67";
```

sequence remove <key>

Description

To remove a sequence

Parameters

key: The key - string - required

```
admin
sequence remove "test"

mentdb
Sequence removed with successful.
```

Server

- You have some functions to control the execution of the server.
- To learn more about the version of the server, and see the AI ID card.

<u>id</u>	<u>ai firstname</u>
<u>ai lastname</u>	<u>name ai name</u>
<u>shutdown</u>	<u>stop</u>
<u>wait</u>	<u>version</u>
<u>exceeded sessions</u>	<u>reset exceeded sessions</u>
<u>@exceeded sessions</u>	<u>@reset exceeded sessions</u>
<u>src count</u>	<u>function count</u>
<u>refresh admin</u>	<u>refresh devel</u>
<u>refresh config</u>	<u>in editor</u>
<u>in clipboard</u>	<u>in out editor</u>
<u>in activity</u>	<u>in scatter</u>
<u>config reload</u>	<u>kill</u>
<u>kill process</u>	

id

Description

To get the id of the server

```
admin
id

mentdb
WLMJ4JpIGAYY
```

ai firstname

Description

To show the AI firstname

```
admin
ai firstname

mentdb
lisa
```

ai lastname

Description

To show the AI lastname

```
admin
ai lastname

mentdb
payet
```

name

Synonymous

ai name

Description

To show the AI name

```
admin
name

mentdb
lisa payet
```

shutdown <identificationCode>

Description

To stop the server (or stop)

Parameters

identificationCode: The identification code -string - required

```
admin
shutdown "ZVQNT8PJDt1h_"

mentdb
MentDB: Shutdown with successful.<br>Bye.<br><br>Disconnected.
```

stop <identificationCode>

Description

To stop the server (or shutdown)

Parameters

identificationCode: The identification code -string - required

```
admin
stop "ZVQNt8PJDT1h_"

mentdb
MentDB: Shutdown with successful.<br>Bye.<br><br>Disconnected.
```

wait <time>

Description

To force the server to wait

Parameters

time: The time in millisecond -string - required

```
admin
wait "10000"

mentdb
1
```

version

Description

To show the version of the server

```
admin
version

mentdb
2.2.9
```

exceeded sessions

Description

To show the number of exceeded sessions

```
admin
exceeded sessions

mentdb
0
```

reset exceeded sessions

Description

To reset the number of exceeded sessions

```
admin
reset exceeded sessions

mentdb
Exceeded sessions has been reset successfully.
```

@exceeded sessions

Description

To show the number of exceeded web socket sessions

```
admin
@exceeded sessions

mentdb
0
```

@reset exceeded sessions

Description

To reset the number of exceeded web socket sessions

```
admin
@reset exceeded sessions

mentdb
Exceeded sessions has been reset successfully.
```

src count

Description

To count the number of Java lines

```
admin
src count

mentdb
35679
```

function count

Description

To count the number of MQL functions

```
admin
function count

mentdb
690
```

refresh admin

Description

To refresh the tree admin in the editor

```
admin
refresh admin

mentdb
In editor ...
```

refresh devel <filter>

Description

To refresh the tree devel in the editor

Parameters

filter: The string to search -string - required

```
admin
refresh devel "as400"

mentdb
In editor ...
```

refresh config

Description

To refresh the tree config in the editor

```
admin
refresh config

mentdb
In editor ...
```

in editor

Description

To refresh the tree in the editor

```
admin
in editor {file load "home/file.txt"}

mentdb
...
```

in clipboard

Description

To copy a string into the clipboard

```
admin
in clipboard {script generate update "division"}

mentdb
...
```

in out_editor

Description

Show data into the editor

```
admin
in out_editor {
  sql show data "demo_db_mysql" "SELECT * FROM products LIMIT 0, 200";
}

mentdb
...
```

in activity

Description

Show the line process

```
admin
in activity {...}

mentdb
...
```

in scatter

Description

Show the scatter for AP

```
admin
in scatter {...}

mentdb
...
```

config reload

Description

To the config file

```
admin
config reload

mentdb
1
```

kill <sessionId>

Description

To kill a session

Parameters

sessionId: The session id -string - required

```
admin
kill 23

mentdb
1
```

kill_process <pid>

Description

To kill a process from the stack

Parameters

pid: The process id -string - required

```
admin
kill_process 23a

mentdb
The process will be stoped at the next MQL command ...
```

Session

- You have control functions of web socket session.
- You have control functions of database session.

WS Session

<u>@chat</u>	<u>@cmdid</u>
<u>@count sessions</u>	<u>@sessions</u>
<u>@sid</u>	

DB Session

<u>bye</u>	<u>cmdid</u>
<u>count sessions</u>	<u>exit</u>
<u>help</u>	<u>quit</u>
<u>sessions</u>	<u>sid</u>
<u>who</u>	

@chat

Description

To change the mode to CHAT.

```
admin
@chat

mentdb
CHAT mode activated (do not use directly with the editor, only in your application with th
```

@cmdid

Description

To show the number of web socket command executed by the current user

```
admin
@cmdid

mentdb
5
```

@count sessions

Description

To count all open web socket sessions

```
admin
@count sessions

mentdb
1
```

@sessions

Description

To show open web socket sessions

```
admin
@sessions

mentdb
[<br>  {<br>    "maxUsable": 600,<br>    "nbExecution": 5,<br>    "id": 2,<br>    "used":
```

@sid

Description

To show current web socket session id

```
admin
@sid

mentdb
3
```

bye

Description

To close the session (or exit or quit)

```
admin
bye

mentdb
Session close with successful.
```

cmdid

Description

To show the number of command executed by the current user

```
admin
```

```
cmdid
```

```
mentdb
```

```
25
```

count sessions

Description

To count all open sessions

```
admin
```

```
count sessions
```

```
mentdb
```

```
3
```

exit

Description

To close the session (or bye or quit)

```
admin
```

```
exit
```

```
mentdb
```

```
Session close with successful.
```

help

Description

To show this help menu

quit

Description

To close the session (or exit or quit)

```
admin
```

```
quit
```

```
mentdb
```

```
Session close with successful.
```

sessions

Description

To show all open sessions

```
admin
sessions

mentdb
[<br>  {<br>    "maxUsable": 600,<br>    "nbExecution": 2,<br>    "used": 0,<br>    "id":
```

sid

Description

To show current session id

```
admin
sid

mentdb
5
```

who

Description

To show the current user

```
admin
who

mentdb
admin
```

SFTP

- All remote protocols.

sftp connect	sftp cd
sftp lcd	sftp pwd
sftp lpwd	sftp mkdir
sftp ls	sftp rename
sftp home	sftp version
sftp put	sftp get
sftp rm	sftp rm dir
sftp disconnect	sftp disconnect all

sftp connect <sessionId> <jsonObject>

Description

Connect to a SFTP server.

Parameters

sessionId: The session id -string - required
jsonObject: The json object information -string - required

```
admin
sftp connect "session1" {cm get "demo_cm_sftp";}

mentdb
1
```

sftp cd <sessionId> <directory>

Description

Go to another remote directory.

Parameters

sessionId: The session id -string - required
directory: The remote directory -string - required

```
admin
sftp cd "session1" "/remote/dir"

mentdb
1
```

sftp lcd <sessionId> <directory>

Description

Go to another local directory.

Parameters

sessionId: The session id -string - required
directory: The local directory -string - required

```
admin
sftp lcd "session1" "/local/dir"

mentdb
1
```

sftp pwd <sessionId>

Description

Get the current remote directory.

Parameters

sessionId: The session id -string - required

```
admin
sftp pwd "session1"

mentdb
/remote/dir
```

sftp lpwd <sessionId>

Description

Get the current local directory.

Parameters

sessionId: The session id -string - required

```
admin
sftp lpwd "session1"

mentdb
/local/dir
```

sftp mkdir <sessionId> <directory>

Description

Create a remote directory.

Parameters

sessionId: The session id -string - required
directory: The remote directory -string - required

```
admin
sftp mkdir "session1" "/remote/dir"

mentdb
1
```

sftp ls <sessionId> <fileFilterPath>

Description

Get all files into the current remote directory.

Parameters

sessionId: The session id -string - required
fileFilterPath: The file filter path -string - required

```
admin
sftp ls "session1" "*"

mentdb
[]
```

sftp rename <sessionId> <oldFile> <newFile>

Description

Rename a remote file or directory.

Parameters

sessionId: The session id -string - required
oldFile: The old file path -string - required
newFile: The new file path -string - required

```
admin
sftp rename "session1" "file1" "file2"

mentdb
1
```

sftp home <sessionId>

Description

Get home.

Parameters

sessionId: The session id -string - required

```
admin
sftp home "session1"

mentdb
/home/dir
```

sftp version <sessionId>

Description

Get protocol server version.

Parameters

sessionId: The session id -string - required

```
admin
sftp version "session1"

mentdb
3
```

sftp put <sessionId> <localFile> <remoteFile> <mode>

Description

Upload a file.

Parameters

sessionId: The session id -string - required

localFile: The local file path -string - required

remoteFile: The remote file path -string - required

mode: The mode (OVERWRITE | APPEND | RESUME) -string - required

```
admin
sftp put "session1" "file1" "file2" "RESUME"

mentdb
1
```

sftp get <sessionId> <remoteFile> <localFile>

Description

Download a file.

Parameters

sessionId: The session id -string - required

remoteFile: The remote file path -string - required

localFile: The local file path -string - required

```
admin
sftp get "session1" "remoteFile1" "localFile2"

mentdb
1
```

sftp rm <sessionId> <remoteFile>

Description

Remove a remote file.

Parameters

sessionId: The session id -string - required
remoteFile: The remote file path -string - required

```
admin
sftp rm "session1" "remoteFile1"

mentdb
1
```

sftp rm dir <sessionId> <remoteDir>

Description

Remove a remote directory.

Parameters

sessionId: The session id -string - required
remoteDir: The remote directory path -string - required

```
admin
sftp rm dir "session1" "remoteDir1"

mentdb
1
```

sftp disconnect <sessionId>

Description

Disconnect a session.

Parameters

sessionId: The session id -string - required

```
admin
sftp disconnect "session1"

mentdb
1
```

sftp disconnect all

Description

Disconnect all sessions.

```
admin
sftp disconnect all
```

```
mentdb
0
```

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SQL

- Here you can manage SQL actions.

sql connect	sql show
sql auto_commit	sql set timeout
sql value	sql row
sql col_distinct	sql to json
sql to xml	sql to html
sql to excel	sql to excelx
sql to pdf	sql to csv
sql to csv_file	sql dml
sql parse	sql commit
sql rollback	sql disconnect
sql disconnect all	sql encode
sql show tables	sql select
sql show data	sql show desc
sql show activity	

sql connect <sqlId> <configJson>

Description

Connect to a database

Parameters

sqlId: The SQL id -string - required

configJson: The JSON connection config -string - required

```
admin
sql connect "session1" {cm get "demo_cm_mysql";};

mentdb
1
```

sql show

Description

Show all opened connections

```
admin
sql show

mentdb
["session1"]
```

sql auto_commit <sqlId> <bool>

Description

Set the connection as auto commit

Parameters

sqlId: The SQL id -string - required
bool: The boolean -number - required

```
admin
sql auto_commit "session1" true

mentdb
1
```

sql set_timeout <timeout>

Description

Set the query timeout

Parameters

timeout: The timeout in second (integer>=0 - 0=no limit) -number - required

```
admin
sql set_timeout 0

mentdb
1
```

sql value <sqlId> <selectQuery>

Description

Get a value from the database

Parameters

sqlId: The SQL id -string - required
selectQuery: The SELECT query -string - required

```
admin
sql value "session1" (concat "select name from products where id=1")

mentdb
car
```

sql row <sqlId> <selectQuery>

Description

Get a row from the database

Parameters

sqlId: The SQL id -string - required

selectQuery: The SELECT query -string - required

```
admin
sql row "session1" (concat "select * from products where id=" (sql encode 1))

mentdb
{
  "dtcreate": "2018-02-15 10:00:00.0",
  "sale": "1",
  "quantity": "5",
  "subtype": "T",
  "price": "7.50",
  "cat": null,
  "name": "car",
  "weight": "23.4567",
  "id": "1",
  "type": "A",
  "desc": "a car ...."
}
```

sql col_distinct <sqlId> <selectQuery>

Description

Get a col distinct from the database

Parameters

sqlId: The SQL id -string - required

selectQuery: The SELECT query -string - required

```
admin
sql col_distinct "session1" (concat "select * from products where id=" (sql encode 1))

mentdb
```

sql to json <sqlId> <tableName> <selectQuery>

Description

Get data from the database to JSON

Parameters

sqlId: The SQL id -string - required

tableName: The table name -string - required

selectQuery: The SELECT query -string - required

```
admin
sql to json "session1" "products" (concat "select * from products")
```

```
mentas
{
  "data": [
    {
      "dtcreate": "2018-02-15 10:00:00.0",
      "sale": "1",
      "quantity": "5",
      "subtype": "T",
      "price": "7.50",
      "cat": null,
      "name": "car",
      "weight": "23.4567",
      "id": "1",
      "type": "A",
      "desc": "a car ...."
    },
    {
      "dtcreate": "2018-02-16 12:00:00.0",
      "sale": "0",
      "quantity": "2",
      "subtype": "R",
      "price": "9.80",
      "cat": "",
      "name": "pen",
      "weight": "29.987",
      "id": "2",
      "type": "A",
      "desc": "a pen ...."
    },
    {
      "dtcreate": "2018-02-17 13:00:00.0",
      "sale": "0",
      "quantity": "200",
      "subtype": "1",
      "price": "14.70",
      "cat": "money",
      "name": "yen",
      "weight": "89.987",
      "id": "3",
      "type": "Z",
      "desc": "a yen ...."
    },
    {
      "dtcreate": "2018-02-18 13:00:00.0",
      "sale": "0",
      "quantity": "1",
      "subtype": "1",
      "price": "14.70",
      "cat": "human",
      "name": "bob",
      "weight": "99.098",
      "id": "4",
      "type": "Z",
      "desc": "a human ...."
    },
    {
      "dtcreate": "2018-02-19 15:00:00.0",
      "sale": "1",
      "quantity": "19",
      "subtype": "T",
      "price": "19.40",
      "cat": "animal",
      "name": "spider",
      "weight": "123.08",
      "id": "5",
      "type": "E",
      "desc": "an animal ...."
    }
  ]
}
```

```

],
"columns": [
  "id",
  "name",
  "quantity",
  "cat",
  "desc",
  "dtcreate",
  "type",
  "subtype",
  "price",
  "sale",
  "weight"
],
"table": "products"
}

```

sql to xml <sqlId> <tableName> <selectQuery>

Description

Get data from the database to XML

Parameters

sqlId: The SQL id -string - required
 tableName: The table name -string - required
 selectQuery: The SELECT query -string - required

```

admin
sql to xml "session1" "products" (concat "select * from products")

mentdb
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<table>
  <table>products</table>
  <columns>
    <item>id</item>
    <item>name</item>
    <item>quantity</item>
    <item>cat</item>
    <item>desc</item>
    <item>dtcreate</item>
    <item>type</item>
    <item>subtype</item>
    <item>price</item>
    <item>sale</item>
    <item>weight</item>
  </columns>
  <data>
    <item>
      <id>1</id>
      <name>car</name>
      <quantity>5</quantity>
      <cat nil="true"/>
      <desc>a car ....</desc>
      <dtcreate>2018-02-15 10:00:00.0</dtcreate>
      <type>A</type>
      <subtype>T</subtype>
      <price>7.50</price>
      <sale>1</sale>
      <weight>23.4567</weight>
    </item>
    <item>
      <id>2</id>
    </item>
  </data>
</table>

```

```

<name>pen</name>
<quantity>2</quantity>
<cat/>
<desc>a pen ....</desc>
<dtcreate>2018-02-16 12:00:00.0</dtcreate>
<type>A</type>
<subtype>R</subtype>
<price>9.80</price>
<sale>0</sale>
<weight>29.987</weight>
</item>
<item>
<id>3</id>
<name>yen</name>
<quantity>200</quantity>
<cat>money</cat>
<desc>a yen ....</desc>
<dtcreate>2018-02-17 13:00:00.0</dtcreate>
<type>Z</type>
<subtype>1</subtype>
<price>14.70</price>
<sale>0</sale>
<weight>89.987</weight>
</item>
<item>
<id>4</id>
<name>bob</name>
<quantity>1</quantity>
<cat>human</cat>
<desc>a human ....</desc>
<dtcreate>2018-02-18 13:00:00.0</dtcreate>
<type>Z</type>
<subtype>1</subtype>
<price>14.70</price>
<sale>0</sale>
<weight>99.098</weight>
</item>
<item>
<id>5</id>
<name>spider</name>
<quantity>19</quantity>
<cat>animal</cat>
<desc>an animal ....</desc>
<dtcreate>2018-02-19 15:00:00.0</dtcreate>
<type>E</type>
<subtype>T</subtype>
<price>19.40</price>
<sale>1</sale>
<weight>123.08</weight>
</item>
</data>
</table>

```

sql to html <sqlId> <tableName> <selectQuery>

Description

Get data from the database to HTML

Parameters

sqlId: The SQL id -string - required

tableName: The table name -string - required

selectQuery: The SELECT query -string - required

```
admin
sql to html "session1" "products" (concat "select * from products")

mentdb
<html><head>
<style>
table, td, th {
    border: 1px solid black;
    padding: 8px;
}
#table1 {
    border-collapse: collapse;
}
</style>
</head><body><h3>Table: <b>products</b></h3><br/>
<table id='table1'><tr><th>id</th><th>name</th><th>quantity</th><th>cat</th><th>desc</th></tr>
```

sql to excel <sqlId> <tableName> <selectQuery> <filePath>

Description

Get data from the database to Excel document

Parameters

sqlId: The SQL id -string - required
tableName: The table name -string - required
selectQuery: The SELECT query -string - required
filePath: The Excel file path -string - required

```
admin
sql to excel "session1" "products" (concat "select * from products") "/Users/jimmitry/Desktop/1.xlsx"

mentdb
1
```

sql to excelx <sqlId> <tableName> <selectQuery> <filePath>

Description

Get data from the database to ExcelX document

Parameters

sqlId: The SQL id -string - required
tableName: The table name -string - required
selectQuery: The SELECT query -string - required
filePath: The Excel file path -string - required

```
admin
sql to excelx "session1" "products" (concat "select * from products") "/Users/jimmitry/Desktop/1.xlsx"

mentdb
1
```

sql to pdf <sqlId> <tableName> <selectQuery> <filePath>

Description

Get data from the database to PDF document

Parameters

sqlId: The SQL id -string - required
tableName: The table name -string - required
selectQuery: The SELECT query -string - required
filePath: The Excel file path -string - required

```
admin
sql to pdf "session1" "products" (concat "select * from products") "/Users/jimmitry/Desktop"
mentdb
1
```

sql to csv <sqlId> <tableName> <selectQuery> <columnSeparator> <quoteChar>

Description

Get data from the database to CSV

Parameters

sqlId: The SQL id -string - required
tableName: The table name -string - required
selectQuery: The SELECT query -string - required
columnSeparator: The column separator -String - required
quoteChar: Quote char -String - required

```
admin
sql to csv "session1" "products" (concat "select * from products") "," """
mentdb
id,name,quantity,cat,desc,dtcreate,type,subtype,price,sale,weight
1,car,5,null,a car ....,2018-02-15 10:00:00.0,A,T,7.50,1,23.4567
2,pen,2,,a pen ....,2018-02-16 12:00:00.0,A,R,9.80,0,29.987
3,yen,200,money,a yen ....,2018-02-17 13:00:00.0,Z,1,14.70,0,89.987
4,bob,1,human,a human ....,2018-02-18 13:00:00.0,Z,1,14.70,0,99.098
5,spider,19,animal,an animal ....,2018-02-19 15:00:00.0,E,T,19.40,1,123.08
```

sql to csv_file <sqlId> <filePath> <selectQuery> <columnSeparator> <quoteChar>

Description

Get data from the database to CSV

Parameters

sqlId: The SQL id -string - required
filePath: The file path -string - required
selectQuery: The SELECT query -string - required
columnSeparator: The column separator -String - required
quoteChar: Quote char -String - required

```
admin
sql to csv_file "session1" "/Users/jimmitry/Desktop/data.csv" (concat "select * from produ
mentdb
1
```

sql dml <sqlId> <dmlQuery>

Description

Execute a DML request

Parameters

sqlId: The SQL id -string - required
dmlQuery: The DML query -string - required

```
admin
sql dml "session1" (concat "insert into products (id, name, quantity) values (4, 'other',
mentdb
1
```

sql parse <sqlId> <namespace> <selectQuery> <mqlAction>

Description

Parse data

Parameters

sqlId: The SQL id -string - required
namespace: The namespace -string - required
selectQuery: The SELECT query -string - required
mqlAction: The MQL action to execut on each line -string - required

```
admin
sql parse "session1" "T" (concat "select name from products") {<br><br> log trace [T_name]
mentdb
```

sql commit <sqlId>

Description

Commit a connection

Parameters

sqlId: The SQL id -string - required

```
admin
sql commit "session1"

mentdb
1
```

sql rollback <sqlId>

Description

Rollback a connection

Parameters

sqlId: The SQL id -string - required

```
admin
sql rollback "session1"

mentdb
1
```

sql disconnect <sqlId>

Description

Disconnect from a database

Parameters

sqlId: The SQL id -string - required

```
admin
sql disconnect "session1"

mentdb
1
```

sql disconnect all <sqlId>

Description

Disconnect all connections

Parameters

sqlId: The SQL id -string - required

```
admin
sql disconnect all

mentdb
1
```

sql encode <data>

Description

Encode a valid value

Parameters

data: The data -string - required

```
admin
sql encode "data"

mentdb
'data'
```

```
admin
sql encode null

mentdb
null
```

sql show tables <cmld>

Description

Show tables from a database

Parameters

cmld: The connection id -string - required

```
admin
sql show tables "demo_cm_mysql"

mentdb
In editor ...
```

sql select <cmld> <query> <title>

Description

Show data from a table

Parameters

cmld: The connection id -string - required

query: The select query -string - required

title: The editor title -string - required

```
admin
sql select "demo_cm_mysql" "select * from table limit 0, 100" "table"

mentdb
In editor ...
```

sql show data <cmld> <query> <title>

Description

Show data from a table

Parameters

cmld: The connection id -string - required
query: The select query -string - required
title: The editor title -string - required

```
admin
sql show data "demo_cm_mysql" "select * from products limit 0, 100" "products"

mentdb
In editor ...
```

sql show desc <cmld> <tablename>

Description

Show table description

Parameters

cmld: The connection id -string - required
tablename: The table name -string - required

```
admin
sql show desc "demo_cm_mysql" "products"

mentdb
In editor ...
```

sql show activity <groupType> <dtMin> <dtMax>

Description

Show activity of scripts

Parameters

groupType: The group type (SEC|MIN|HOUR|DAY|MONTH|YEAR) -string - required
dtMin: The min date -string - required
dtMax: The max date -string - required

```
admin
sql show activity DAY
(date datediff(concat(date sysdate) " 00:00:00") "DAY" 100)
(concat(date sysdate) " 23:59:59")

mentdb
In editor ...
```

SSH

- All remote protocols.

ssh connect	ssh execute_1_cmd
ssh execute_n_cmd	ssh scp from
ssh scp to	ssh disconnect
ssh disconnect all	

ssh connect <sessionId> <jsonObject>

Description

Connect to a SSH server.

Parameters

sessionId: The session id -string - required
jsonObject: The json object information -string - required

```
admin
ssh connect "session1" {cm get "demo_cm_ssh";}

mentdb
1
```

ssh execute_1_cmd <sessionId> <shellCommand>

Description

Execute a remote command.

Parameters

sessionId: The session id -string - required
shellCommand: The shell command -string - required

```
admin
ssh execute_1_cmd "session1" "ps -e | grep java"

mentdb
17233 ??          12:18.24 /usr/bin/java -cp core:lib/* -Dlog4j.configuration=file:conf/log4j.properties
57035 ??          11:04.93 /Library/Java/JavaVirtualMachines/jdk1.8.0_152.jdk/Contents/Home/bin/java
66213 ??          0:00.00 bash -c ps -e | grep java
66215 ??          0:00.00 grep java
65926 ttys000      1:13.42 /usr/bin/java -server -cp core:lib/* -Dlog4j.configuration=file:conf/log4j.properties
```

ssh execute_n_cmd <sessionId> <shellCommand>

Description

Execute a remote command.

Parameters

sessionId: The session id -string - required

shellCommand: The shell command -string - required

```
admin
ssh execute_n_cmd "session1" "pwd;ps -e | grep java"

mentdb
<response>
<validLines>/Users/jimmitry
17233 ??      12:18.31 /usr/bin/java -cp core:lib/* -Dlog4j.configuration=file:conf/log4
57035 ??      11:09.69 /Library/Java/JavaVirtualMachines/jdk1.8.0_152.jdk/Contents/Home/
66220 ??      0:00.01 bash -c pwd;ps -e | grep java
66222 ??      0:00.00 grep java
65926 ttys000  1:13.83 /usr/bin/java -server -cp core:lib/* -Dlog4j.configuration=file:c
<exitCode>0</exitCode>
</response>
```

ssh scp from <sessionId> <remoteFile> <localFile>

Description

Scp from.

Parameters

sessionId: The session id -string - required

remoteFile: The remote file -string - required

localFile: The local file -string - required

```
admin
ssh scp from "session1" "remoteFile" "localFile"

mentdb
1
```

ssh scp to <sessionId> <localFile> <remoteFile>

Description

Scp to.

Parameters

sessionId: The session id -string - required

localFile: The local file -string - required

remoteFile: The remote file -string - required

```
admin
ssh scp to "session1" "localFile" "remoteFile"

mentdb
1
```

ssh disconnect <sessionId>

Description

Disconnect a session.

Parameters

sessionId: The session id -string - required

```
admin
ssh disconnect "session1"

mentdb
1
```

ssh disconnect all

Description

Disconnect all sessions.

```
admin
ssh disconnect all

mentdb
0
```

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Stack

- Here you can execute a script with delay.

stack	stack process
stack process limit	stack count wait
stack count running	stack count closed
stack count error	stack delete wait id
stack delete wait script	stack delete closed id
stack delete closed script	stack delete error id
stack delete error script	stack reset error nbattempt id
stack reset error nbattempt script	stack replay error id
stack replay error script	stack get
stack search	

stack <exeDate> <scriptName> <varName1> <varvalue1> <varNameN> <varvalueN>

Description

To execute a script into the stack

Parameters

exeDate: The execution date - string - required
scriptName: The script name - string - required
varName1: The variable name 1 - string - not required
varvalue1: The value 1 - string - not required
varNameN: The variable name N - string - not required
varvalueN: The value N - string - not required

```
admin
stack (date now) "division.post" "[v1]" 10 "[v2]" 5

mentdb
2a
```

stack process

Description

Process to execute the stack

```
admin
stack process

mentdb
1
```

stack process_limit

Description

Show the stack config process limit.

```
admin
stack process_limit

mentdb
4
```

stack count_wait

Description

Count all waiting execution in the stack.

```
admin
stack count_wait

mentdb
2
```

stack count_running

Description

Count all running execution in the stack.

```
admin
stack count_running

mentdb
4
```

stack count_closed

Description

Count all closed execution in the stack.

```
admin
stack count_closed

mentdb
406
```

stack count_error

Description

Count all error execution in the stack.

```
admin
stack count_error

mentdb
122
```

stack delete_wait_id <pid>

Description

Delete a specific execution (wait).

Parameters

pid: The process id -number - required

```
admin
stack delete_wait_id 4

mentdb
1
```

stack delete_wait_script <scriptName>

Description

Delete all executions for a specific script (wait).

Parameters

scriptName: The script name -string - required

```
admin
stack delete_wait_script "division.post"

mentdb
25
```

stack delete_closed_id <pid>

Description

Delete a specific execution (closed).

Parameters

pid: The process id -number - required

```
admin
stack delete_closed_id 4

mentdb
1
```

stack delete_closed_script <scriptName>

Description

Delete all executions for a specific script (closed).

Parameters

scriptName: The script name -string - required

```
admin
stack delete_closed_script "division.post"

mentdb
25
```

stack delete_error_id <pid>

Description

Delete a specific execution (error).

Parameters

pid: The process id -number - required

```
admin
stack delete_error_id 4

mentdb
1
```

stack delete_error_script <scriptName>

Description

Delete all executions for a specific script (error).

Parameters

scriptName: The script name -string - required

```
admin
stack delete_error_script "division.post"

mentdb
10
```

stack reset_error_nbattempt_id <pid>

Description

Reset the number of attempt (error).

Parameters

pid: The process id -number - required

```
admin
stack reset_error_nbattempt_id 4

mentdb
1
```

stack reset_error_nbattempt_script <scriptName>

Description

Reset the number of attempt (error).

Parameters

scriptName: The script name -string - required

```
admin
stack reset_error_nbattempt_script "division.post"

mentdb
1
```

stack replay_error_id <pid>

Description

Replay a specific execution (error).

Parameters

pid: The process id -number - required

```
admin
stack replay_error_id 4

mentdb
1
```

stack replay_error_script <scriptName>

Description

Replay all executions for a specific script (error).

Parameters

scriptName: The script name -string - required

```
admin
stack replay_error_script "division.post"

mentdb
7
```

stack get <pid>

Description

To show a specific execution (with variables).

Parameters

pid: The process id -number - required

```
admin
stack get 4

mentdb
{
  "lastattempt": "2018-01-04 10:39:17.0",
  "dtcreate": "2018-01-04 10:32:07.0",
  "nbattempt": "1",
  "dtclosed": null,
  "dtexe": "2018-01-04 10:32:07.0",
  "pid": "17",
  "login": "admin",
  "script": "addition.post",
  "dterror": "2018-01-04 10:39:17.0",
  "nbmaxattempt": "1",
  "lasterrmsg": "\nline 1 \u003e\u003e\u003e addition.post [v1] 12 [v2] 19 \nline 2 \u003e\u003e\u003e"
}
```

stack search <tableType> <script> <dtType> <dtMin> <dtMax> <dtOrder> <page> <nbByPage>

Description

To search an execution process

Parameters

tableType: The table type (wait|running|closed|error) -string - required

script: The script (can be null) -string - required

dtType: The date type (exe|closed|error|create||lastattempt) -string - required

dtMin: The min date -string - required

dtMax: The max date -string - required

dtOrder: The order (ASC|DESC) -string - required

page: The page -number - required

nbByPage: The number of line by page -number - required

```
admin
stack search "error"
null
"exe"
(date datediff (concat (date sysdate) " 00:00:00") "DAY" 10)
(concat (date sysdate) " 23:59:59")
ASC 1 5;

mentdb
{"column_types": ["STRING", "STRING", "STRING", "STRING", "LONG", "LONG", "STRING", "STRING", "STRIN
```



Statement

- Like all languages, you have the classic statements functions.

<u>eval</u>	<u>parallel</u>
<u>if</u>	<u>if force</u>
<u>case</u>	<u>switch</u>
<u>for</u>	<u>while</u>
<u>repeat</u>	<u>break</u>
<u>continue</u>	<u>exception</u>
<u>try</u>	

eval <mql>

Description

Eval a MQL expression

Parameters

mql: The MQL source code -string - required

```
admin
eval "log trace OK!;"
```



```
mentdb
1
```

parallel <mql1> <mqlN>

Description

Execute many commands in the same time

Parameters

mql1: The first MQL command -String - required

mqlN: The N MQL command -String - required

```
admin
parallel {
    log trace "1";
} {
    log trace "2";
} {
    log trace "3";
};

mentdb
[
    {
        "result": "1",
        "status": "OK"
    },
    {
        "result": "1",
        "status": "OK"
    },
    {
        "result": "1",
        "status": "OK"
    }
]
```

if <condition> <trueAction> <falseAction>

Description

IF statement

Parameters

condition: The condition -string - required

trueAction: The true action -boolean - required

falseAction: The false action -boolean - not required

```
admin
if (true) {

    log trace OK!

} {

    log trace KO!

};

mentdb
1
```

```
admin
if (true) {

    log trace hello!

}

mentdb
1
```

if force <condition> <trueAction> <falseAction>

Description

IF statement (force true and false execution)

Parameters

condition: The condition -string - required

trueAction: The true action -boolean - required

falseAction: The false action -boolean - required

```
admin
if force (true) {

    log trace OK!

} {

    log trace KO!

};

mentdb
1
```

case <condition1> <action1> <conditionN> <actionN> <elseAction>

Description

CASE statement

Parameters

condition1: The condition 1 -boolean - required

action1: The action 1 -string - required

conditionN: The condition N -boolean - required

actionN: The action N -string - required

elseAction: The else action -string - not required

```
admin
case
    (true) {A}
    (false) {B}
    {C}
;

mentdb
A
```

switch <valueToSearch> <condition1> <action1> <conditionN> <actionN> <elseAction>

Description

SWITCH statement

Parameters

valueToSearch: The value to search -boolean - required

condition1: The condition 1 -boolean - required

action1: The action 1 -string - required
conditionN: The condition N -boolean - required
actionN: The action N -string - required
elseAction: The else action -string - not required

```
admin
switch (A)
(A) {A}
(B) {B}
{C}
;
mentdb
A
```

for <init> <condition> <increment> <action>

Description

FOR statement

Parameters

init: The init mql source code -string - required
condition: The condition -boolean - required
increment: The increment -string - required
action: The action -string - required

```
admin
for (-> "[i]" 0) (< [i] 45) (++ "[i]") {
    log trace [i];
}
mentdb
```

while <condition> <action>

Description

WHILE statement

Parameters

condition: The condition -boolean - required
action: The action -string - required

```
admin
-> "[i]" 0;
while (< [i] 45) {
    log trace [i];
    ++ "[i]";
}
mentdb
```

repeat <condition> <action>

Description

REPEAT statement

Parameters

condition: The condition -boolean - required

action: The action -string - required

```
admin
-> "[i]" 0;
repeat (< [i] 45) {

    log trace [i];
    ++ "[i]";

};

mentdb
```

break

Description

Break a FOR/WHILE/REPEAT/SQL_PARSE/CSV_PARSE/HTML_PARSE/JSON_PARSE_OBJ/JSON_PARSE_ARRAY statement

```
admin
break

mentdb
BREAK
```

continue

Description

Stop the sub action and continue the loop :

FOR/WHILE/REPEAT/SQL_PARSE/CSV_PARSE/HTML_PARSE/JSON_PARSE_OBJ/JSON_PARSE_ARRAY statement

```
admin
continue

mentdb
CONTINUE
```

exception <id> <message>

Description

EXCEPTION statement

Parameters

id: The error message id -string - required
message: The error message - string - required

```
admin
exception (1) ("your message ...")

mentdb
1: your message ...
```

try <action> <errorAction> <idException>

Description

TRY statement

Parameters

action: The main action -string - required
errorAction: The error action if an error was generated -string - required
idException: The variable to save the error message -string - required

```
admin
try {

    exception (1) ("your messffage ...");

} {

    log trace [err];

} "[err]";

mentdb
1
```

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String

- Like all languages, you have a few data manipulation functions.

string ascii	string bin
string bit_length	string char
string char_length	string char_to_int
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string levenshtein_distance	string md5
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string replace	string reverse
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string rtrim	string space
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string split_sentence	string starts_with
string starts_with_or	string str_to_hex
string strcmp	string strpos
string strpos	string substrchar
string substr	string substr
string substring	string substring
string to_string	string encode
string empty_if_null	string null_if_empty
string trim	string txt
string txt2	string ucase
string unhex	string upper
string zero	type_is_matches_regex

string ascii <chr>

Description

convert a character to integer

Parameters

chr: The string -String - required

```
admin
string ascii "a"

mentdb
97
```

string bin <num>

Description

returns a string representation of the binary value of n, where n is a long (bigint) number

Parameters

num: The number -Number - required

```
admin
string bin 97

mentdb
1100001
```

string bit_length <str>

Description

returns the length of the string str in bits

Parameters

str: The string -String - required

```
admin
string bit_length 61

mentdb
16
```

string char <num>

Description

convert an integer to character

Parameters

num: The number -Number - required

```
admin
string char 97

mentdb
a
```

string char_length <str>

Description

returns the length of the string. the length is equal to the number of unicode code units in the string.

Parameters

str: The string -String - required

```
admin
string char_length "azerty"

mentdb
6
```

string char_to_int <chr>

Description

convert a character to integer

Parameters

chr: The string -String - required

```
admin
```

```
string char_to_int "a"
```

```
mentdb
```

```
97
```

concat <str1> <strN>

Description

concat all parameters (do not use this function with string. before)

Parameters

str1: The string -String - required

strN: The string -String - required

```
admin
```

```
concat 97 "a" "r"
```

```
mentdb
```

```
97ar
```

string csv_value <data> <columnSeparator> <quoteChar>

Description

convert a string into a valid csv value

Parameters

data: The string data -String - required

columnSeparator: The column separator -String - required

quoteChar: Quote char -String - required

```
admin
```

```
string csv_value "a" "," "'"
```

```
mentdb
```

```
a
```

string sentence_distance <activationPercent> <levenshteinPercent> <sentence1> <sentence2>

Description

To get the sentence distance between two sentences

Parameters

activationPercent: The activation percent -Number - required

levenshteinPercent: The levenshtein percent -Number - required

sentence1: The sentence 1 -String - required

sentence2: The sentence 2 -String - required

```
admin
string sentence_distance 40 70 "word1 word2 word3" "word1 word2"

mentdb
267.0
```

string sentences_distance <activationPercent> <levenshteinPercent> <sentence1> <sentenceObj>

Description

To get the sentence distance between sentences

Parameters

activationPercent: The activation percent -Number - required
levenshteinPercent: The levenshtein percent -Number - required
sentence1: The sentence 1 -String - required
sentenceObj: The sentence object (key=sentence) -String - required

```
admin
string sentences_distance 40 70 "vrai passionné" "{"
  \\"1\\": {
    \\"i\\": \"des saveurs qui explosent en bouche\",
    \\"o\\": \\"1\\"
  },
  \\"2\\": {
    \\"i\\": \"un vrai passionné de cuisine\",
    \\"o\\": \\"-1\\"
  },
  \\"3\\": {
    \\"i\\": \"agrément surprenant\",
    \\"o\\": \\"0\\"
  }
}"

mentdb
{
  \\"best_id\\": \\"2\",
  \\"best_predict\\": \\"-1\",
  \\"best_sentence\\": \"un vrai passionné de cuisine\",
  \\"best_value\\": 240.0,
  \\"handle\\": {
    \\"1\\": {
      \\"v\\": 0.0,
      \\"i\\": \"des saveurs qui explosent en bouche\",
      \\"o\\": \\"1\\"
    },
    \\"2\\": {
      \\"v\\": 240.0,
      \\"i\\": \"un vrai passionné de cuisine\",
      \\"o\\": \\"-1\\"
    },
    \\"3\\": {
      \\"v\\": 0.0,
      \\"i\\": \"agrément surprenant\",
      \\"o\\": \\"0\\"
    }
  }
}
```

string levenshtein_distance <word1> <word2>

Description

To get the levenshtein distance between two words

Parameters

word1: The word 1 -String - required
word2: The word 2 -String - required

```
admin
string levenshtein_distance "admn" "admin"

mentdb
1
```

string md5 <str>

Description

get the md5

Parameters

str: The string -String - required

```
admin
string md5 "admin"

mentdb
21232f297a57a5a743894a0e4a801fc3
```

string sha <str>

Description

get the sha

Parameters

str: The string -String - required

```
admin
string sha "admin"

mentdb
d033e22ae348aeb5660fc2140aec35850c4da997
```

string count <string> <find>

Description

count the occurrence number of a string in another string

Parameters

string: The string -String - required
find: The string -String - required

```
admin
string count "azertyaze" "a"

mentdb
2
```

string encode_sign_generate_keypair <keysize>

Description

Generate a key pair for sign encryption

Parameters

keysize: The key size -String - required

```
admin
string encode_sign_generate_keypair "2048"

mentdb
{
  "privateKey": "MIIEvgIBADANBgkqhkiG9w0BAQEFAASCBKgwggSkAgEAAoIBAQCNvvK73uoux+7wwULXE1OcT...
  "publicKey": "MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIIBCgKCAQEAp8Lyu97qLsfu8MFC1xNTnEyTvymLgp...
}
```

string encode_sign <data> <privateKey>

Description

Get a signature from a string

Parameters

data: The data string -String - required

privateKey: The private key -String - required

```
admin
string encode_sign "azerty" (json select "keyId" "/privateKey")

mentdb
MD0CHCGD3SEzr5rIZnSdnyT+DGLPqHbI9VFBjwY3yv0CHQCfA56aUbe0y/ixaXgx7GWXM/JFAYAXnU3uFP/1
```

string decode_sign_verify <data> <signature> <publicKey>

Description

Chech a text with a signature and a public key

Parameters

data: The data string -String - required

signature: The signature -String - required

publicKey: The public key -String - required

```
admin
string decode_sign_verify "azerty" "MD0CHCGD3SEzr5rIZnSdnyT+DGLPqHbI9VFBjwY3yv0CHQCfA56aUb
mentdb
1
```

string encode_rsa_generate_keypair <keysize>

Description

Generate a key pair for RSA encryption

Parameters

keysize: The key size -String - required

```
admin
string encode_rsa_generate_keypair "2048"

mentdb
{
  "privateKey": "MIIEvgIBADANBgkqhkiG9w0BAQEFAASCBKgwggSkAgEAAoIBAQCNwvK73uoux+7wwULXE1OcT,
  "publicKey": "MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAp8Lyu97qLsfu8MFC1xNTnEyTvymLgp
}
```

string encode_rsa <data> <publicKey> <privateKey>

Description

Encode a string into DES algorithm

Parameters

data: The data string -String - required

publicKey: The public key -String - required

privateKey: The private key -String - required

```
admin
string encode_rsa "azerty" (json select "keyId" "/publicKey") (json select "keyId" "/priv
mentdb
AI1yh7NIDFHjWeO3PKOTdC0sJC68MyZtCJvjG3fpkTFens+8jSuS4qtq6XNB9X5fzBuyKKD0Cpcn4k8ePmoYJxuPdj:
```

string decode_rsa <data> <privateKey>

Description

Decode a string from DES algorithm

Parameters

data: The data string -String - required

privateKey: The private key -String - required

```
admin
string decode_rsa "AI1yh7NIDFHjWeO3PKOTdC0sJC68MyZtCJvjG3fpkTFenS+8jSuS4qtq6XNB9X5fzBuyKKD

mentdb
azerty
```

string encode_des_generate_key <keysize>

Description

Generate a key for DES encryption

Parameters

keysize: The key size -String - required

```
admin
string encode_des_generate_key "56"

mentdb
eVHgJt9uHAE=
```

string encode_des <data> <secretKey>

Description

Encode a string into DES algorithm

Parameters

data: The data string -String - required

secretKey: The secret key -String - required

```
admin
string encode_des "azerty" "eVHgJt9uHAE="

mentdb
uMIF5QaE3zc=
```

string decode_des <data> <secretKey>

Description

Decode a string from DES algorithm

Parameters

data: The data string -String - required

secretKey: The secret key -String - required

```
admin
string decode_des "uMIF5QaE3zc=" "eVHgJt9uHAE="

mentdb
azerty
```

string encode_blowfish <data> <secretKey>

Description

Encode a string into blowfish algorithm

Parameters

data: The data string -String - required

secretKey: The secret key -String - required

```
admin
string encode_blowfish "azerty" "mySecretKey"

mentdb
HFnj8tkXUyY=
```

string decode_blowfish <data> <secretKey>

Description

Decode a string from blowfish algorithm

Parameters

data: The data string -String - required

secretKey: The secret key -String - required

```
admin
string decode_blowfish "HFnj8tkXUyY=" "mySecretKey"

mentdb
azerty
```

string encode_pbe <data> <password>

Description

Encode a string into PBE algorithm

Parameters

data: The data string -String - required

password: The password -String - required

```
admin
string encode_pbe "azerty" "myPassword"

mentdb
{"encrypted": "gREFhYMVFjs=", "params": "MA0ECG5GZ4n6ieTAAgEK"}
```

string decode_pbe <json_data> <password>

Description

Decode a string from PBE algorithm

Parameters

json_data: The json data and parameters string -String - required
password: The password -String - required

```
admin
string decode_pbe "{\"encrypted\":\"gREFhYMFjs=\" , \"params\":\"MA0ECG5GZ4n6ieTAAgEK\" }" "myPasswo
mentdb
azerty
```

string encode_b64 <string>

Description

encode a string into b64

Parameters

string: The string -String - required

```
admin
string encode_b64 "azerty"

mentdb
YXplcnR5
```

string decode_b64 <string>

Description

decode a string from b64

Parameters

string: The string -String - required

```
admin
string decode_b64 "YXplcnR5"

mentdb
azerty
```

string del_char_before_each_line <data> <nbChar>

Description

delete a number of char on each lines

Parameters

data: The data -String - required
nbChar: The number of chars -Number - required

```
admin
string del_char_before_each_line "sdlfkjdf<br>dfgdfgdfgd" 4

mentdb
kjdf<br>fgdfgdfgd<br>
```

string mql_to_html <mql>

Description

Convert a MQL source code to HTML

Parameters

mql: The mql source code -String - required

```
admin
in editor {string mql_to_html (mql {

    concat "r=" [R];

})};

mentdb

<span style='color:#003cc8'>concat</span> <span style='color:#007700'>"r="</span> <span s·
```

string ends_with <stringValue> <stringToEnd>

Description

check if a value ends with another string

Parameters

stringValue: The string -String - required

stringToEnd: The end string -String - required

```
admin
string ends_with "azertyaze" 3

mentdb
0
```

string first_letter_upper <str>

Description

returns the string in lower case. the first letter in upper case.

Parameters

str: The string -String - required

```
admin
string first_letter_upper "azerty"

mentdb
Azerty
```

string first_letter <str>

Description

returns the first letter from a string.

Parameters

str: The string -String - required

```
admin
string first_letter "azerty"

mentdb
a
```

string generate_random_str <size>

Description

generate a random string

Parameters

size: The size of the string -String - required

```
admin
string generate_random_str 1

mentdb
D
```

string hex <num>

Description

returns a string representation of the hexadecimal value of n, where n is a long (bigint) number

Parameters

num: The number -Number - required

```
admin
string hex 97

mentdb
61
```

string hex_to_int <hex>

Description

convert a hexadecimal number to (bigint) number

Parameters

hex: The hex number -String - required

```
admin
string hex_to_int 97

mentdb
151
```

string hex_to_str <hex>

Description

get a string from a hexadecimal representation (ascii).

Parameters

hex: The hexadecimal number -String - required

```
admin
string hex_to_str 61

mentdb
a
```

string indent <str> <nbSpaceBefore>

Description

returns the indented string

Parameters

str: The string -String - required

nbSpaceBefore: The string -String - required

```
admin
string indent "azerty<br>a<br>b<br>c" 3

mentdb
azerty<br>    a<br>    b<br>    c
```

string instr <str1> <str2>

Description

returns the index within this string of the first occurrence of the specified substring

Parameters

str1: The string -String - required

str2: The string -String - required

```
admin
string instr "azerty" "r"

mentdb
3
```

string instr <str1> <str2> <fromIndex>

Description

returns the index within this string of the first occurrence of the specified substring, starting at the specified index

Parameters

str1: The string -String - required
str2: The string -String - required
fromIndex: starting to index -Number - required

```
admin
string instr "azerty" "r" 4

mentdb
-1
```

string int_to_char <num>

Description

convert an integer to character

Parameters

num: The number -Number - required

```
admin
string int_to_char 97

mentdb
a
```

string int_to_hex <num>

Description

returns a string representation of the hexadecimal value of n, where n is a long (bigint) number

Parameters

num: The number -Number - required

```
admin
string int_to_hex 97

mentdb
61
```

string int_to_oct <num>

Description

returns a string representation of the octal value of n, where n is a long (bigint) number

Parameters

num: The number - Number - required

```
admin
string int_to_oct 97

mentdb
141
```

string is_letter <value>

Description

check if a value contains only letters

Parameters

value: The value - String - required

```
admin
string is_letter "abcd"

mentdb
1
```

string is_alpha_num_uds <value>

Description

check if a value contains only letters, underscore char or numbers

Parameters

value: The value - String - required

```
admin
string is_alpha_num_uds "abc_12d"

mentdb
1
```

string is_alpha_num <value>

Description

check if a value contains only letters or numbers

Parameters

value: The value - String - required

```
admin
string is_alpha_num "abc12d"

mentdb
1
```

string is_number_char <value>

Description

check if a value contains only number char

Parameters

value: The value - String - required

```
admin
string is_number_char "-456.45"

mentdb
0
```

string ltrim <str>

Description

returns the string with one space character between other chars

Parameters

str: The string - String - required

```
admin
string ltrim "aze   rty"

mentdb
aze rty
```

string lcase <str>

Description

converts all of the characters in this string to lower case using the rules of the default locale

Parameters

str: The string - String - required

```
admin
string lcase "AZERTY"

mentdb
azerty
```

string left <str> <len>

Description

get the leftmost len characters from the string str.

Parameters

str: The string -String - required
len: The length -Number - required

```
admin
string left "AZERTY" 3

mentdb
AZE
```

string length <str>

Description

returns the length of this string. the length is equal to the number of unicode code units in the string.

Parameters

str: The string -String - required

```
admin
string length "azerty"

mentdb
6
```

string like <str> <pat>

Description

performs a pattern match of a string expression expr against a pattern pat

Parameters

str: the string -String - required
pat: the paterne -String - required

```
admin
string like "azerty" ".*ze.*"

mentdb
1
```

string locate <str1> <str2>

Description

returns the index within this string of the first occurrence of the specified substring

Parameters

str1: The string -String - required
str2: The string -String - required

```
admin
string locate "azerty" "r"

mentdb
3
```

string locate <str1> <str2> <fromIndex>

Description

returns the index within this string of the first occurrence of the specified substring, starting at the specified index

Parameters

str1: The string -String - required
str2: The string -String - required
fromIndex: starting to index -Number - required

```
admin
string locate "azerty" "r" 4

mentdb
-1
```

string lower <str>

Description

converts all of the characters in this string to lower case using the rules of the default locale

Parameters

str: The string -String - required

```
admin
string lower "AZERTY"

mentdb
azerty
```

string lpad <str> <padString> <paddedLength>

Description

pads the left-side of a string with a specific set of characters

Parameters

str: The string -String - required
padString: The pad string -String - required
paddedLength: The end of the sub string -Number - required

```
admin
string lpad "azertyaze" "#" 10

mentdb
#azertyaze
```

string ltrim <str>

Description

returns the string without space character on the left and on the right

Parameters

str: The string -String - required

```
admin
string ltrim " azerty   "

mentdb
azerty
```

string lrtrim0 <str>

Description

returns the string without 0 character on the left and on the right

Parameters

str: The string -String - required

```
admin
string lrtrim0 " 123   "

mentdb
123
```

string ltrim <str>

Description

returns the string without space character on the left

Parameters

str: The string -String - required

```
admin
string ltrim " azerty   "

mentdb
azerty
```

string matches <str> <pat>

Description

performs a pattern match of a string expression expr against a pattern pat

Parameters

str: the string -String - required
pat: the paterne -String - required

```
admin
string matches "azerty" ".*ze.*"

mentdb
1
```

string mid <str> <index>

Description

returns a new string that is a substring of this string. the substring begins with the character at the specified index and extends to the end of this string.

Parameters

str: The string -String - required
index: The begin of the sub string -Number - required

```
admin
string mid "azertyaze" 3

mentdb
rtyaze
```

string mid <str> <beginIndex> <endIndex>

Description

returns a new string that is a substring of this string. the substring begins at the specified beginindex and extends to the character at index endindex - 1. thus the length of the substring is endindex-beginindex

Parameters

str: The string -String - required
beginIndex: The begin of the sub string -Number - required
endIndex: The end of the sub string -Number - required

```
admin
string mid "azertyaze" 3 5

mentdb
rt
```

string not_like <str> <pat>

Description

not performs a pattern match of a string expression expr against a pattern pat

Parameters

str: the string -String - required
pat: the paterne -String - required

```
admin
string not_like "azerty" ".*ze.*"

mentdb
0
```

string not_regex <str> <pat>

Description

not performs a pattern match of a string expression expr against a pattern pat

Parameters

str: the string -String - required
pat: the paterne -String - required

```
admin
string not_regex "azerty" ".*ze.*"

mentdb
0
```

string oct <num>

Description

returns a string representation of the octal value of n, where n is a long (bigint) number

Parameters

num: The number -Number - required

```
admin
string oct 97

mentdb
141
```

string oct_to_int <oct>

Description

convert a octal number to (bigint) number

Parameters

oct: The octal number -String - required

```
admin
string oct_to_int "15"
```

```
mentdb
13
```

string position <str1> <str2>

Description

returns the index within this string of the first occurrence of the specified substring

Parameters

str1: The string -String - required

str2: The string -String - required

```
admin
string position "azerty" "r"
```

```
mentdb
3
```

string position <str1> <str2> <fromIndex>

Description

returns the index within this string of the first occurrence of the specified substring, starting at the specified index

Parameters

str1: The string -String - required

str2: The string -String - required

fromIndex: starting to index -Number - required

```
admin
string position "azerty" "r" 4
```

```
mentdb
-1
```

string regexp <str> <pat>

Description

performs a pattern match of a string expression expr against a pattern pat

Parameters

str: the string -String - required

pat: the paterne -String - required

```
admin
string regexp "azerty" ".*ze.*"
```

```
mentdb
1
```

string repeat <str> <count>

Description

returns a string consisting of the string str repeated count times

Parameters

str: The string -String - required

count: The count number -Number - required

```
admin
string repeat "AZERTY" 3

mentdb
AZERTYAZERTYAZERTY
```

string repeat_insert_str <str> <strToInsert> <incr>

Description

returns a string with a string inserted all n char

Parameters

str: The string -String - required

strToInsert: The string to insert -String - required

incr: The increment -Number - required

```
admin
string repeat_insert_str "azertyuiop" "-" 3

mentdb
aze-rty-uio-p-
```

string replace <str> <target> <replacement>

Description

replaces each substring of this string that matches the literal target sequence with the specified literal replacement sequence

Parameters

str: The string -String - required

target: The string target -String - required

replacement: The replacement -String - required

```
admin
string replace "azerty" "z" 9

mentdb
a9erty
```

string reverse <str>

Description

returns the string str with the order of the characters reversed.

Parameters

str: The string -String - required

```
admin
string reverse "AZERTY"

mentdb
YTREZA
```

string right <str> <len>

Description

get the rightmost len characters from the string str.

Parameters

str: The string -String - required

len: The length -Number - required

```
admin
string right "AZERTY" 3

mentdb
RTY
```

string rpad <str> <padString> <paddedLength>

Description

pads the right-side of a string with a specific set of characters

Parameters

str: The string -String - required

padString: The pad string -String - required

paddedLength: The end of the sub string -Number - required

```
admin
string rpad "azertyaze" "#" 10

mentdb
azertyaze#
```

string rtrim <str>

Description

returns the string without space character on the right

Parameters

str: The string -String - required

```
admin
string rtrim " azerty   "

mentdb
azerty
```

string space <count>

Description

returns a string consisting of n space characters

Parameters

count: The number of space -String - required

```
admin
string space "5"

mentdb
```

string split <str> <regex> <limit>

Description

Split a string

Parameters

str: The string -String - required

regex: The regex -String - required

limit: The limit -Number - required

```
admin
string split "a b c" " " -1

mentdb
[ "a", "b", "c" ]
```

string split_mql <str> <index>

Description

Split a MQL source code

Parameters

str: The string -String - required

index: The index position -Number - required

```
admin
string split_mql "a b c" 1

mentdb
b
```

string split_sentence <str> <chars>

Description

Split a sentence

Parameters

str: The string -String - required

chars: The chars separator -Number - required

```
admin
string split_sentence "bonjour, comment sa vas ? Bye." ",?."
mentdb
...
```

string starts_with <stringValue> <stringToStart>

Description

check if a value starts with another string

Parameters

stringValue: The string -String - required

stringToStart: The start string -String - required

```
admin
string starts_with "azertyaze" 3
mentdb
0
```

string starts_with_or <stringValue> <stringToStart>

Description

check if a value starts with another string

Parameters

stringValue: The string -String - required

stringToStart: The start string -String - required

```
admin
string starts_with_or "azertyaze" aeiou
mentdb
1
```

string str_to_hex <str>

Description

get a hexadecimal string representation of str where each character in str is converted to two hexadecimal digits.

Parameters

str: The string -String - required

```
admin
string str_to_hex 97

mentdb
3937
```

string strcmp <str1> <str2>

Description

compare two string

Parameters

str1: The string 1 -String - required

str2: The string 2 -String - required

```
admin
string strcmp "AZERTY" "iop"

mentdb
-40
```

string strpos <str1> <str2>

Description

returns the index within this string of the first occurrence of the specified substring

Parameters

str1: The string -String - required

str2: The string -String - required

```
admin
string strpos "azerty" "r"

mentdb
3
```

string strpos <str1> <str2> <fromIndex>

Description

returns the index within this string of the first occurrence of the specified substring, starting at the specified index

Parameters

str1: The string -String - required

str2: The string -String - required

fromIndex: starting to index -Number - required

```
admin
string strpos "azerty" "r" 4

mentdb
-1
```

string sublrcar <str> <numberDeleteChar>

Description

delete a number of char at the start and at the end of the string

Parameters

str: The string -String - required
numberDeleteChar: The number of char to delete -Number - required

```
admin
string sublrcar "azerty" 1

mentdb
zert
```

string substr <str> <index>

Description

returns a new string that is a substring of this string. the substring begins with the character at the specified index and extends to the end of this string.

Parameters

str: The string -String - required
index: The begin of the sub string -Number - required

```
admin
string substr "azertyaze" 3

mentdb
rtyaze
```

string substr <str> <beginIndex> <endIndex>

Description

returns a new string that is a substring of this string. the substring begins at the specified beginindex and extends to the character at index endIndex - 1. thus the length of the substring is endIndex-beginindex

Parameters

str: The string -String - required
beginIndex: The begin of the sub string -Number - required
endIndex: The end of the sub string -Number - required

```
admin
string substr "azertyaze" 3 5

mentdb
rt
```

string substring <str> <index>

Description

returns a new string that is a substring of this string. the substring begins with the character at the specified index and extends to the end of this string.

Parameters

str: The string -String - required
index: The begin of the sub string -Number - required

```
admin
string substr "azertyaze" 3

mentdb
rtyaze
```

string substring <str> <beginIndex> <endIndex>

Description

returns a new string that is a substring of this string. the substring begins at the specified beginindex and extends to the character at index endIndex - 1. thus the length of the substring is endIndex-beginindex

Parameters

str: The string -String - required
beginIndex: The begin of the sub string -Number - required
endIndex: The end of the sub string -Number - required

```
admin
string substr "azertyaze" 3 5

mentdb
rt
```

string to_string <str>

Description

return a valid sql string data (example: 'i'am a man')

Parameters

str: The string -String - required

```
admin
string to_string "az\"erty"

mentdb
'az"erty'
```

string encode <str> <sourceEnc> <destinationEnc>

Description

encode a string to another encoding format

Parameters

str: The string -String - required
sourceEnc: The source encoding format -String - required
destinationEnc: The destination encoding format -String - required

```
admin
string encode "az\"erty" "ISO-8859-1" "UTF-8"

mentdb
az"erty'
```

string empty_if_null <str>

Description

set the string to empty if the string is null

Parameters

str: The string -String - required

```
admin
string empty_if_null "a b@mail.com"

mentdb
a b@mail.com'
```

string null_if_empty <str>

Description

set the string to null if the string is empty

Parameters

str: The string -String - required

```
admin
string null_if_empty "a b@mail.com"

mentdb
a b@mail.com'
```

string trim <str>

Description

returns the string without space character on the right, left and with one space inside

Parameters

str: The string -String - required

```
admin
string trim " aze   rty "
mentdb
aze rty
```

string txt <data>

Description

return a valid sql string data (example: 'i'am a man')

Parameters

data: The data -String - required

```
admin
string txt "az'erty"
mentdb
'az\ 'erty'
```

string txt2 <data>

Description

return a valid sql string data (example: 'i"am a man')

Parameters

data: The data -String - required

```
admin
string txt2 "az'erty"
mentdb
'az''erty'
```

string ucase <str>

Description

converts of all the characters in this string to upper case using the rules of the default locale

Parameters

str: The string -String - required

```
admin
string ucase "azerty"

mentdb
AZERTY
```

string unhex <hex>

Description

convert a hexadecimal number to (bigint) number

Parameters

hex: The hex number -String - required

```
admin
string unhex 97

mentdb
151
```

string upper <str>

Description

converts of all the characters in this string to upper case using the rules of the default locale

Parameters

str: The string -String - required

```
admin
string upper "azerty"

mentdb
AZERTY
```

string zero <str>

Description

return a 0 if empty string else return the string

Parameters

str: The string -String - required

```
admin
string zero "az'erty"

mentdb
az'erty
```

type is_matches_regex <str> <pat>

Description

performs a pattern match of a string expression expr against a pattern pat

Parameters

str: the string -String - required
pat: the paterne -String - required

```
admin
type is_matches_regex "azerty" ".*ze.*"

mentdb
1
```

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Symbol

- Words are based on symbols linked together cognitively.
- When you stimulate a word, you also stimulate all the symbols making up the word.
- You can not delete a symbol.

symbol create	symbol create insert add	symbol first
symbol last		symbol show
symbol get		symbol perception
symbol show words		symbol show languages
symbol stimulate		

symbol create <symbol> <lang>

Synonymous

[symbol create|insert|add](#)

Description

To insert a new symbol

Parameters

symbol: The symbol -string - required

lang: The language -string - required

```

admin
-> "[c_lang]" "en";
#Add the symbols A-Z;
mentdb
Symbol S[z] created with successful in the language 'en'.

```

```
admin
symbol create "-" en

mentdb
Symbol S[-] created with successful in the language 'en'.
```

symbol first <symbol> <lang>

Description

To get the first symbol tab link

Parameters

symbol: The symbol -string - required
lang: The language -string - required

```
admin
symbol first s en

mentdb
TL[657370616365 1 en]
```

symbol last <symbol> <lang>

Description

To get the last symbol tab link

Parameters

symbol: The symbol -string - required
lang: The language -string - required

```
admin
symbol last s en

mentdb
TL[63686f7365 3 en]
```

symbol show <symbol> <lang>

Description

To show symbol tab links

Parameters

symbol: The symbol -string - required
lang: The language -string - required

```
admin
symbol show s en

mentdb
[<br> "TL[657370616365 1 en]",<br> "TL[73e9706172e9 0 en]",<br> "TL[706872617365 4 en]"
```

symbol get <symbol> <position> <lang>

Description

To get the symbol tab link

Parameters

symbol: The symbol -string - required
position: The position -integer>=0 - required
lang: The language -string - required

```
admin
symbol get s 0 en

mentdb
TL[657370616365 1 en]
```

symbol perception <symbol> <lang>

Description

To show symbol tab link perception

Parameters

symbol: The symbol -string - required
lang: The language -string - required

```
admin
symbol perception s en

mentdb
[<br> {<br> "v": 0.0,<br> "w": 0,<br> "nw": 19,<br> "k": "TL[657370616365 1 e:
```

symbol show words <symbol> <lang>

Description

To show symbol words

Parameters

symbol: The symbol -string - required
lang: The language -string - required

```
admin
symbol show words s en

mentdb
[<br> "espace",<br> "séparé",<br> "phrase",<br> "divise",<br> "supprime",<br> "liste
```

symbol show languages <symbol>

Description

To show symbol languages

Parameters

symbol: The symbol -string - required

```
admin
symbol show languages s

mentdb
[<br>  "io",<br>  "en",<br>  "fr"<br>]
```

symbol stimulate <tabLinkId>

Description

To stimulate a symbol tab link

Parameters

tabLinkId: The symbol tab link id -string - required

```
admin
symbol stimulate "TL[63686f7365 3 en]

mentdb
Symbol tab link stimulated with successful.
```

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Thought

- Depending on the language, a word may have identical or different meanings.
- The same word can have many different thoughts, eg: the hand, to hand ...
- A thought can be stimulated and all these relationships can go up.

thought create	thought show
thought show	thought first
thought last	thought get
thought merge	thought prob_in_words
thought show words	thought show words
thought stimulate	thought delete
thought delete by lang	thought delete by word
thought delete by word lang	

thought create <word> <separator> <lang> <lock_translation>

Synonymous

[thought create|insert|add](#)

Description

insert thought

Parameters

word: The word -string - required
 separator: The separator -string - required
 lang: The language -string - required
 lock_translation: Lock the translation -string - required

```
admin
thought insert cat "" en false

mentdb
TH[ 6t ]
```

thought show <word> <lang>

Description

To show all thoughts linked with a word in a language

Parameters

word: The word -string - required
 lang: The language -string - required

```
admin
thought show cat en
```

```
mentdb
[<br>  "TH[ 6t ]"<br>]
```

thought show <word>

Description

To show all thoughts linked with a word in all languages

Parameters

word: The word -string - required

```
admin
thought show cat
```

```
mentdb
[<br>  {<br>    "thoughtId": "TH[ 6t ]",<br>    "lang": "en"<br>  }<br>]
```

thought first <word> <lang>

Description

To get the first thought

Parameters

word: The word -string - required

lang: The language -string - required

```
admin
thought first cat en
```

```
mentdb
TH[ 6t ]
```

thought last <word> <lang>

Description

To get the last thought

Parameters

word: The word -string - required

lang: The language -string - required

```
admin
thought last cat en
```

```
mentdb
TH[ 6t ]
```

thought get <word> <position> <lang>

Description

To get a thought

Parameters

word: The word -string - required
position: The position -integer>=0 - required
lang: The language -string - required

```
admin
thought get cat 0 en

mentdb
TH[6t]
```

thought merge <level> <thoughtId1> <thoughtId2>

Description

To merge thoughts

Parameters

level: The level (ex: th|...) -string - required
thoughtId1: The thought id 1 -string - required
thoughtId2: The thought id 2 -string - required

```
admin
thought merge "th" TH[6t] TH[6s];

mentdb
Thoughts merged with successful.
```

```
admin
thought merge "th" (<br> word create snake en false;<br>) (<br> word create serpent fr fal

mentdb
Thoughts merged with successful.
```

thought prob_in_words <ths> <words>

Description

To get the thoughts probability in words

Parameters

ths: The thoughts -string - required
words: The words -string - required

```
admin
thought prob_in_words "TH[6]" "cat";

mentdb
100
```

thought show words <thoughtId>

Description

To show all words in a thought

Parameters

thoughtId: The thought id -string - required

```
admin
thought show words TH[6]

mentdb
[<br>  {<br>    "lang": "en",<br>    "word": "W[cat]"<br>  }<br>]
```

thought show words <thoughtId> <lang>

Description

To show all words in a thought for a specific language

Parameters

thoughtId: The thought id -string - required

lang: The language -string - required

```
admin
thought show words TH[6] en

mentdb
[<br>  {<br>    "lang": "fr",<br>    "word": "W[cat]"<br>  }<br>]
```

thought stimulate <thoughtId>

Description

To stimulate a thought

Parameters

thoughtId: The thought id -string - required

```
admin
thought stimulate TH[6t]

mentdb
Thought TH[6t] stimulated with successful.
```

thought delete <thoughtId>

Description

To delete a specific thought

Parameters

thoughtId: The thought id -string - required

```
admin
thought delete (word create chicken en false)

mentdb
Thought TH[115] deleted with successful.
```

thought delete by lang <lang> <thoughtId>

Description

To delete a specific thought in a language

Parameters

lang: The language -string - required

thoughtId: The thought id -string - required

```
admin
thought delete by lang en (word create chicken en false)

mentdb
Thought TH[115] deleted with successful in the language 'en'.
```

thought delete by word <word> <thoughtId>

Description

To delete a specific thought in a word

Parameters

word: The word -string - required

thoughtId: The thought id -string - required

```
admin
thought delete by word chicken (word create chicken en false)

mentdb
Thought TH[115] deleted with successful in the word 'chicken'.
```

thought delete by word lang <word> <lang> <thoughtId>

Description

To delete a specific thought in a word and in a language

Parameters

word: The word -string - required

lang: The language -string - required

thoughtId: The thought id -string - required

admin

```
thought delete by word lang chicken en (word create chicken en false)
```

mentdb

```
Thought TH[115] deleted with successful in the word 'chicken' and the language en.
```

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[Home](#) > MQL Functions [MQL_NB_FUNCTIONS]f - MQL v_[MQL_VERSION]

[MQL]

[Home](#) > MQL Functions [MQL_NB_FUNCTIONS]f - MQL v_[MQL_VERSION]

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Transaction

- Whenever you run MQL commands, you are in a micro transaction.
- If one of your orders returns an error, all your micro transaction is rollbacked.
- The storage system is ACID.

[commit](#)
[transaction logs](#)
[auto commit](#)

[rollback](#)
[auto commit set](#)

commit

Description

To commit the current transaction

```
admin
word create duck en;commit;
word create rabbit en;
exception (1) ("here a rollback ...")
```

```
admin
node show W[duck]
```



```
mentdb
{<br>  "f1": {<br>    "en": {<br>      "l1": "TH[77]",<br>      "ftl": "TH[77]"<br>    }<br>  }<br>}
```

```
admin
node show W[rabbit]
```



```
mentdb
Sorry, the node 'W[rabbit]' does not exist.
```

rollback

Description

To rollback the current transaction

```
admin
word create wolf en;commit;
word create panda en;
rollback;
```



```
mentdb
Rollback done.
```

```
admin
node show W[wolf]

mentdb
{<br>  "fl": {<br>    "en": {<br>      "ltl": "TH[ 78 ]",<br>      "ftl": "TH[ 78 ]"<br>    }<br>  }<br>}
```

```
admin
node show W[panda]

mentdb
Sorry, the node 'W[panda]' does not exist.
```

transaction logs <limit>

Description

To show the log block list to replay

Parameters

limit: The limit value -integer >= 0 - required

```
admin
word create hippo en;<br>env set var "[transaction_logs]" (transaction logs 10);<br>[tran
mentdb
[<br>  "1\tTO_OVERWRITE_COUNTER_INDEX\tIndex fileId:651\tCounter:4",<br>  "2\tTO_SET_OLD_IN]
```

auto commit set <bool>

Description

To set the auto commit mode

Parameters

bool: The boolean (true|false) -boolean - required

```
admin
auto commit set false

mentdb
1
```

auto commit

Description

To get the auto commit mode

admin
auto commit

mentdb
1

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Tunnel

- Connect to another MentDB engine.

tunnel connect	tunnel execute hot
tunnel execute hot cluster	tunnel execute cluster
tunnel execute	tunnel disconnect
tunnel disconnect all	mql
mql encode	

tunnel connect <sessionId> <jsonObject>

Description

Connect to a MentDB server.

Parameters

sessionId: The session id -string - required
jsonObject: The json object information -string - required

```
admin
tunnel connect "session1" {cm get "demo_cm_mentdb";}

mentdb
1
```

tunnel execute_hot <sessionId> <jsonObject> <mql|>

Description

Execute a MQL command in hot.

Parameters

sessionId: The session id -string - required
jsonObject: The json object information -string - required
mql: The MQL command to execute -string - required

```
admin
-> "[local_var1]" "data1";
-> "[local_var2]" "data2";
-> "[result1]" (tunnel execute_hot "session1" {cm get "demo_cm_mentdb";} (concat
"-> \"[remote_var1]\\" \" (mql encode [local_var1]) \";" "
"-> \"[remote_var2]\\" \" (mql encode [local_var2]) \";" "
(mql {
  concat [remote_var1] ":" [remote_var2]
})
));
);

mentdb
data1:data2
```

tunnel execute_hot cluster

Description

Execute a MQL command in hot through a cluster.

```
admin
include "cluster.ln.hot.exe"
"[cluster_id]" "cluster_id_1"
"[method]" "LB_50_50|SIGNAL"
"[tunnel_id]" "tunnel_id_1"
"[request]" "name"
;

mentdb
data1:data2
```

tunnel execute cluster

Description

Execute a MQL command through a cluster.

```
admin
execute "cluster.ln.exe"
"[cluster_id]" "cluster_id_1"
"[method]" "LB_50_50|SIGNAL"
"[request]" "name"
;

mentdb
data1:data2
```

tunnel execute <sessionId> <mql>

Description

Execute a MQL command.

Parameters

sessionId: The session id -string - required
mql: The MQL command to execute -string - required

```
admin
-> "[local_var1]" "data1";
-> "[local_var2]" "data2";
-> "[result2]" (tunnel execute "session1" (concat
"-> \"[remote_var1]\\" \" (mql encode [local_var1]) \";" "
"-> \"[remote_var2]\\" \" (mql encode [local_var2]) \";" "
(mql {
  concat [remote_var1] ":" [remote_var2]
})
));
mentdb
data1:data2
```

tunnel disconnect <sessionId>

Description

Disconnect a session.

Parameters

sessionId: The session id -string - required

```
admin
tunnel disconnect "session1"

mentdb
1
```

tunnel disconnect all

Description

Disconnect all sessions.

```
admin
tunnel disconnect all

mentdb
0
```

mql <str>

Description

Do not parse a string

Parameters

str: The string -string - required

```
admin
mql {name}

mentdb
name
```

mql encode <str>

Description

To get the MQL encode for a specific string

Parameters

str: The string to encode -String - required

```
admin
mql encode "ad\"mn"

mentdb
ad\"mn
```

[Home](#) > [MQL Functions](#)

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Type

- Like all languages, you have a few data manipulation functions.

type is_bool	type is_enum
type is_char	type is_date
type is_decimal	type is_email
type is_hour	type is_time
type is_hour_without_sec	type is_integer
type is_number	type is_byte
type is_small_int	type is_medium_int
type is_int	type is_big_int
type is_float	type is_double
type is_timestamp	type is_valid_date
type is_valid_date	type is_valid_time
type is_valid_timestamp	type is_valid_timestamp
type is_varchar	

type is_bool <value> <bool1> <bool2>

Description

check if a value is equal than two booleans

Parameters

value: The value - String - required
bool1: The first boolean - String - required
bool2: The second boolean - String - required

```
admin
type is_bool 1 1 0

mentdb
1
```

type is_enum <value> <values>

Description

check if a value is a valid enum

Parameters

value: The value - String - required
values: The values - String - required

```
admin
type is_enum 1 1,2,3

mentdb
1
```

type is_char <value> <size>

Description

check if a value is char type (with size)

Parameters

value: The value - String - required
size: The char size authorized -Number - required

```
admin
type is_char 1 1

mentdb
1
```

type is_date <date>

Description

check if a value is a valid date (example: 1980-06-18) in english format

Parameters

date: The date -String - required

```
admin
type is_date "1980-06-18"

mentdb
1
```

type is_decimal <stringDecimal> <digitBeforeTheDecimalPoint> <digitAfterTheDecimalPoint>

Description

check if a value is a decimal number or not

Parameters

stringDecimal: The string in decimal format -String - required
digitBeforeTheDecimalPoint: The number of digit before the decimal point -Number - required
digitAfterTheDecimalPoint: The number of digit after the decimal point -Number - required

```
admin
type is_decimal 12.23 4 5

mentdb
1
```

type is_email <emailAddress>

Description

check if a value is an email address

Parameters

emailAddress: The email -String - required

```
admin
type is_email "jim@mentdb.org"

mentdb
1
```

type is_hour <stringHour>

Description

check if a value is in hour format (example: 12:35:56)

Parameters

stringHour: The hour -String - required

```
admin
type is_hour "12:35:56"

mentdb
1
```

type is_time <stringHour>

Description

check if a value is in hour format (example: 12:35:56)

Parameters

stringHour: The hour -String - required

```
admin
type is_time "12:35:56"

mentdb
1
```

type is_hour_without_sec <stringHour>

Description

check if a value is in hour format (example: 12:35) without seconds

Parameters

stringHour: The hour -String - required

```
admin
type is_hour_without_sec "12:35:56"

mentdb
0
```

type is_integer <value> <size>

Description

check if a value is an integer or not (with size)

Parameters

value: The value - String - required
size: The char size authorized -Number - required

```
admin
type is_integer 1456 5

mentdb
1
```

type is_number <value>

Description

check if a value is a number

Parameters

value: The value - String - required

```
admin
type is_number 1456

mentdb
1
```

type is_byte <value>

Description

check if a value is a byte

Parameters

value: The value - String - required

```
admin
type is_byte 13

mentdb
1
```

type is_small_int <value>

Description

check if a value is a small integer

Parameters

value: The value - String - required

```
admin
type is_small_int 13000

mentdb
1
```

type is_medium_int <value>

Description

check if a value is a medium integer

Parameters

value: The value - String - required

```
admin
type is_medium_int 130000

mentdb
1
```

type is_int <value>

Description

check if a value is an integer

Parameters

value: The value - String - required

```
admin
type is_int 1300000

mentdb
1
```

type is_big_int <value>

Description

check if a value is a big integer

Parameters

value: The value - String - required

```
admin
type is_big_int 1300000

mentdb
1
```

type is_float <value>

Description

check if a value is a float number

Parameters

value: The value - String - required

```
admin
type is_float 1300000.4

mentdb
1
```

type is_double <value>

Description

check if a value is a double number

Parameters

value: The value - String - required

```
admin
type is_double 1300000.4

mentdb
1
```

type is_timestamp <value>

Description

check if a value is a timestamp format (example: '2009-06-18 12:00:00')

Parameters

value: The value - String - required

```
admin
type is_timestamp "2009-06-18 12:00:00"

mentdb
1
```

type is_valid_date <dateToValidate>

Description

check if a date is valid.

Parameters

dateToValidate: The date - String - required

```
admin
type is_valid_date "1980-06-18"

mentdb
1
```

type is_valid_date <dateToValidate> <format>

Description

check if a date is valid.

Parameters

dateToValidate: The date - String - required

format: The date format -String - required

```
admin
type is_valid_date "1980-06-18" "yyyy-MM-dd"

mentdb
1
```

type is_valid_time <timeToValidate>

Description

check if a time is valid.

Parameters

timeToValidate: The time (12:00:01) -String - required

```
admin
type is_valid_time "12:00:01"

mentdb
1
```

type is_valid_timestamp <timestampToValidate>

Description

check if a timestamp is valid.

Parameters

timestampToValidate: The timestamp - String - required

```
admin
type is_valid_timestamp "1980-06-18 12:00:01"

mentdb
1
```

type is_valid_timestamp <timestampToValidate> <format>

Description

check if a timestamp is valid.

Parameters

timestampToValidate: The timestamp - String - required
format: The format (ex: yyyy MM dd HH:mm:ss) -String - required

```
admin
type is_valid_timestamp "1980-06-18 12:00:01" "yyyy-MM-dd HH:mm:ss"

mentdb
1
```

type is_varchar <value> <size>

Description

check if a value is varchar type (with size)

Parameters

value: The value - String - required
size: The char size authorized -Number - required

```
admin
type is_varchar 1 1

mentdb
1
```

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User

- A user can connect to the AI, or directly to the storage structure.
- A user acts directly on the stimulation table.
- A user can not be deleted. It can be disabled.

[user create](#) [user create|insert|add](#)

[user check password](#)

[user force create](#) [user force create|insert|add](#)

[user exist](#)

[user secret key](#)

[user set password](#)

[user show](#)

[user show groups](#)

[user show scripts](#)

[user disable](#)

user create <login> <password> <separator>

Synonymous

[user create|insert|add](#)

Description

To create a new user

Parameters

login: The login -string - required

password: The password -string - required

separator: The separator for word creation -string - not required

```
admin
user create "bob" "pwd"

mentdb
User bob created with successful.
```

```
admin
user create "luc-yann" "pwd" "-"

mentdb
User luc-yann created with successful.
```

user check password <login> <password>

Description

To check a user password

Parameters

login: The login -string - required

password: The password -string - required

```
admin
user check password "bob" "pwd"

mentdb
1
```

user force create <login> <password> <separator>

Synonymous

user force create|insert|add

Description

To create a new user (force if the group already exist)

Parameters

login: The login -string - required
password: The password -string - required
separator: The separator for word creation -string - not required

```
admin
user force create "bob2" "pwd"

mentdb
User bob2 created with successful.
```

```
admin
user force create "luc-yann2" "pwd" "-"

mentdb
User luc-yann2 created with successful.
```

user exist <login>

Description

To a user already exist

Parameters

login: The login -string - required

```
admin
user exist "admin"

mentdb
1
```

user secret_key <login>

Description

Get the user secret key

Parameters

login: The login -string - required

```
admin
user secret_key "admin"

mentdb
sh6gggsshdkjh834d
```

user set password <login> <password>

Description

To set a user password

Parameters

login: The login -string - required

password: The password -string - required

```
admin
user set password "bob" "pwd"

mentdb
Password updated with successful.
```

user show

Description

To show all users

```
admin
user show

mentdb
[<br>  "bob2",<br>  "luc-yann",<br>  "bob",<br>  "admin",<br>  "ai",<br>  "mentdb"<br>]
```

user show groups <login>

Description

To show all groups for a specific user

Parameters

login: The login -string - required

```
admin
user show groups "admin"

mentdb
{<br>  "app": 0,<br>  "luc-yann": 0,<br>  "lib": 0,<br>  "luc-yann2": 0,<br>  "ai": 0,<br>
```

user show scripts <login>

Description

To show all granted scripts for a specific user

Parameters

login: The login -string - required

```
admin
user show scripts "admin"

mentdb
{<br>  "app.100.obj.chartjs.time_courbe.exe": 0,<br>  "app.100.template.default.page.login"
```

user disable <login>

Description

To disable a user

Parameters

login: The login -string - required

```
admin
user disable "bob"

mentdb
1
```

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Virtual host

- Here you can manage your virtual host.

app vhost add	app vhost show
app vhost exist	app vhost delete

app vhost add <protocol> <context> <hostname>

Description

To add a new virtual host

Parameters

protocol: The protocol (http|https) -string - required
context: The context -string - required
hostname: The hostname -string - required

```
admin
app vhost add "http" "demo" "www.jpayet.re"

mentdb
1
```

app vhost show <protocol> <context>

Description

To show virtual hosts

Parameters

protocol: The protocol (http|https) -string - required
context: The context -string - required

```
admin
app vhost show "http" "demo"

mentdb
{"www.jpayet.re": "demo"}
```

app vhost exist <protocol> <context> <hostname>

Description

To check if a virtual host already exist

Parameters

protocol: The protocol (http|https) -string - required
context: The context -string - required
hostname: The hostname -string - required

```
admin
app vhost exist "http" "demo" "www.jpayet.re"

mentdb
1
```

app vhost delete <protocol> <context> <hostname>

Description

To delete a virtual host

Parameters

protocol: The protocol (http|https) -string - required
context: The context -string - required
hostname: The hostname -string - required

```
admin
app vhost delete "http" "demo" "www.jpayet.re"

mentdb
1
```

```
admin
app delete "http" "demo";

mentdb
Application deleted with successful.
```

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Word

- Words and symbols form a gigantic index that points to thoughts.
- You can easily search for a word with just a few symbols.
- A word can exist in several languages, or sometimes in the same language.

[word create](#) [word create|insert|add](#)

[word exist](#)

[word last](#)

[word lang probability](#)

[word levenshtein](#)

[word show](#)

[word perception](#)

[word perception thought](#)

[word delete](#)

[word create](#) [word create|insert|add](#)

[word first](#)

[word get](#)

[word search](#)

[word show languages](#)

[word show](#)

[word perception symbol](#)

[word stimulate](#)

[word delete](#)

word create <word> <lang> <type> <lock_translation>

Synonymous

word create|insert|add

Description

To insert a new word in a language

Parameters

word: The word -string - required

lang: The language -string - required

type: The type -string - required

lock_translation: Lock the translation -string - required

```
admin
word create dog en false
```

```
mentdb
TH[6q]
```

```
admin
word create chien fr false
```

```
mentdb
TH[6r]
```

```
admin
word create cat en false

mentdb
TH[6s]
```

word create <word> <lang> <separator> <type> <lock_translation>

Synonymous

word create|insert|add

Description

To insert a new word in a language with separator

Parameters

word: The word -string - required
lang: The language -string - required
separator: The separator -string - required
type: The type -string - required
lock_translation: Lock the translation -string - required

```
admin
word create "New-York" en "-" false

mentdb
TH[6v]
```

word exist <word> <lang>

Description

To check if a word already exist in a language

Parameters

word: The word -string - required
lang: The language -string - required

```
admin
word exist dog en

mentdb
1
```

word first <word> <lang>

Description

To get the first word tab link

Parameters

word: The word -string - required
lang: The language -string - required

```
admin
word first dog en
```

```
mentdb
TH[6q]
```

word last <word> <lang>

Description

To get the last word tab link

Parameters

word: The word -string - required

lang: The language -string - required

```
admin
word last dog en
```

```
mentdb
TH[6q]
```

word get <word> <position> <lang>

Description

To get the word tab link

Parameters

word: The word -string - required

position: The position -integer>=0 - required

lang: The language -string - required

```
admin
word get dog 0 en
```

```
mentdb
TH[6q]
```

word lang probability <sentence>

Description

To get the language probability

Parameters

sentence: The sentence -string - required

```
admin
word lang probability "dog"
```

```
mentdb
[<br>  {<br>    "v": 100.0,<br>    "k": "en"<br>  }<br>]
```

word search <symbols> <regex> <order> <lang>

Description

To search words

Parameters

symbols: Symbols -string - required
regex: The regex -string - required
order: The order -string (asc|desc|top) - required
lang: The lang -string - required

```
admin
word search do "do.*" top en

mentdb
[{"dog":100.0}]
```

word levenshtein <symbols> <order> <lang>

Description

To search levenshtein distance between words

Parameters

symbols: Symbols -string - required
order: The order -string (asc|desc|top) - required
lang: The lang -string - not required

```
admin
word levenshtein dg top en

mentdb
[{"Dog":33.33333333333333}]
```

word show languages <word>

Description

To show all languages for a specific word

Parameters

word: The word -string - required

```
admin
word show languages dog

mentdb
[<br> "en"<br>]
```

word show <word>

Description

To show word tab links in all languages

Parameters

word: The word -string - required

```
admin
word show dog

mentdb
[<br>  {<br>    "thoughtId": "TH[6q]",<br>    "lang": "en"<br>  }<br>]
```

word show <word> <lang>

Description

To show word tab links

Parameters

word: The word -string - required

lang: The language -string - required

```
admin
word show dog en

mentdb
[<br>  "TH[6q]"<br>]
```

word perception <word> <lang>

Description

To show symbol tab link perceptions for a specific word (average % tab link)

Parameters

word: The word -string - required

lang: The language -string - required

```
admin
word perception dog en

mentdb
[
  {
    "v": 100.0,
    "w": 1,
    "mw": 1,
    "k": "TL[646f67 0 en]"
  },
  {
    "v": 0.0,
    "w": 0,
    "mw": 1,
    "k": "TL[646f67 1 en]"
  },
  {
    "v": 0.0,
    "w": 0,
    "mw": 1,
    "k": "TL[646f67 2 en]"
  }
]
```

word perception symbol <word> <lang>

Description

To show symbol perception for a specific word (average % symbol)

Parameters

word: The word -string - required
lang: The language -string - required

```
admin
word perception symbol dog en

mentdb
[
  {
    "v": 33.33333333333333,
    "w": 2,
    "mw": 6,
    "k": "S[d]"
  },
  {
    "v": 50.0,
    "w": 3,
    "mw": 6,
    "k": "S[o]"
  },
  {
    "v": 16.666666666666664,
    "w": 1,
    "mw": 6,
    "k": "S[g]"
  }
]
```

word perception thought <word> <lang>

Description

To show thought perception for a specific word

Parameters

word: The word -string - required
lang: The language -string - required

```
admin
word perception thought dog en

mentdb
[
  {
    "v": 0.0,
    "w": 0,
    "mw": 0,
    "k": "TH[0]"
  }
]
```

word stimulate <word> <lang>

Description

To stimulate a word

Parameters

word: The word -string - required
lang: The language -string - required

```
admin
word stimulate dog en

mentdb
Word W[dog] stimulated with successful in the language 'en'.
```

word delete <word> <lang>

Description

To delete a word in a language

Parameters

word: The word -string - required
lang: The language -string - required

```
admin
word delete dog en

mentdb
Word W[dog] deleted with successful in the language 'en'.
```

word delete <word>

Description

To delete a word

Parameters

word: The word -string - required

```
admin
word delete dog

mentdb
Word W[dog] deleted with successful.
```

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XML

- Here you can manage XML data file.

xml load	xml show
xml doc	xml exist
xml count	xml select node
xml select text	xml select attribute
xml xpath	xml fields
xml itext	xml inode
xml utext	xml iattribute
xml dattribute	xml dnode
xml unload	xml unload_all
xml escape_10	xml escape_11

xml load <key> <xmlString>

Description

To load a xml string

Parameters

key: The key - string - required
xmlString: The XML string - string - required

```
admin
xml load "keyId" "<data id=\"25\">><item>A</item><item>B</item><item>C</item></data>"

mentdb
1
```

xml show

Description

To show all XML object saved into the session

```
admin
xml show

mentdb
[<br> "keyId"<br>]
```

xml doc <key>

Description

Return the xml document

Parameters

key: The key - string - required

```
admin
xml doc "keyId"

mentdb
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<data id="25">
<item>A</item>
<item>B</item>
<item>C</item>
</data>
```

xml exist <key>

Description

To check if a key is loaded

Parameters

key: The key - string - required

```
admin
xml exist "keyId"

mentdb
1
```

xml count <key> <xPath>

Description

To count an object from an xlm document

Parameters

key: The key - string - required

xPath: The xPath string -string - required

```
admin
xml count "keyId" "/data"

mentdb
1
```

xml select node <key> <xPath>

Description

To select a node from an xlm document

Parameters

key: The key - string - required
xPath: The xPath string -string - required

```
admin
xml select node "keyId" "/data"

mentdb
<?xml version="1.0" encoding="UTF-8"?><data id="25">
  <item>A</item>
  <item>B</item>
  <item>C</item>
</data>
```

xml select text <key> <xPath>

Description

To select a text from an xlm document

Parameters

key: The key - string - required
xPath: The xPath string -string - required

```
admin
xml select text "keyId" "/data/item[1]"

mentdb
A
```

xml select attribute <key> <xPath>

Description

To select an attribute from an xlm document

Parameters

key: The key - string - required
xPath: The xPath string -string - required

```
admin
xml select attribute "keyId" "/data/@id"

mentdb
25
```

xml xpath <key> <xPath>

Description

To generate all xpath string for a node

Parameters

key: The key -string - required
xPath: The xPath string -string - required

```
admin
xml xpath "keyId" "/data"

mentdb
[<br> "/data",<br> "/data[@id\u003d\u002725\u0027]",<br> "/data/item",<br> "/data/item"
```

xml fields <key> <xPath>

Description

To show all fields name for a node

Parameters

key: The key -string - required
xPath: The xPath string -string - required

```
admin
xml fields "keyId" "/data"

mentdb
[item,<br> item,<br> item<br>]
```

xml itext <key> <xPath> <nodeName> <text>

Description

To insert a new text node

Parameters

key: The key -string - required
xPath: The xPath string -string - required
nodeName: The node name -string - required
text: The text -string - required

```
admin
xml itext "keyId" "/data" "number" "456"

mentdb
1
```

xml inode <key> <xPath> <node>

Description

To insert node into a xml document

Parameters

key: The key -string - required
xPath: The xPath string -string - required
node: The node -string - required

```
admin
xml inode "keyId" "/data" "<a><a1></a1><a2></a2></a>"

mentdb
1
```

xml utext <key> <xPath> <text>

Description

To update a text into a xml document

Parameters

key: The key -string - required
xPath: The xPath string -string - required
text: The text -string - required

```
admin
xml utext "keyId" "/data/item[2]" "z"

mentdb
1
```

xml iattribute <key> <xPath> <attributeName> <text>

Description

To insert a new attribute to a node

Parameters

key: The key -string - required
xPath: The xPath string -string - required
attributeName: The attribute name -string - required
text: The text -string - required

```
admin
xml iattribute "keyId" "/data" "id" "987"

mentdb
1
```

xml dattribute <key> <xPath> <attributeName>

Description

To delete an attribute to a node

Parameters

key: The key -string - required
xPath: The xPath string -string - required
attributeName: The attribute name -string - required

```
admin
xml dattribute "keyId" "/data" "id"

mentdb
1
```

xml dnode <key> <xPath>

Description

To delete a specific node

Parameters

key: The key -string - required
xPath: The xPath string -string - required

```
admin
xml dnode "keyId" "/data/item[2]"

mentdb
1
```

xml unload <key>

Description

To unload a xml document

Parameters

key: The key -string - required

```
admin
xml unload "keyId"

mentdb
1
```

xml unload_all

Description

To unload all json documents

```
admin
xml unload_all

mentdb
1
```

xml escape_10 <data>

Description

Escape a xml value

Parameters

data: The data - string - required

```
admin
xml escape_10 "..."

mentdb
...
```

xml escape_11 <data>

Description

Escape a xml value

Parameters

data: The data - string - required

```
admin
xml escape_11 "..."

mentdb
...
```

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CPU

RAM

DISK

CPU

2 GHz

RAM

1 Go

DISK

1 Go
