### MARIA DB STANDARD DEVELOPER

#### CHEAT SHEET

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**MARIA DB CLIENT CLI**

Connect and communicate with MariaDB using the MariaDB command-line client.

- `mariadb -u [username] -p`
  
  Connect to a MariaDB Server using a username and password (will prompt for password)

- `mariadb -u [username] -p [database]`
  
  Connect to a MariaDB Server and specify a database. Note that the first free parameter will be treated as a DB name; the DB name can also be given with the -D flag.

- `mariadb -h [host_address] -P [port_number]`
  
  Connect to a MariaDB Server by specifying the host address and port number (default 3306)

- `mariadb --ssl`
  
  Connect to a MariaDB Server with an encrypted connection.

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**CREATE / ALTER / DROP / REMOVE**

Connect and communicate with MariaDB using the MariaDB command-line client.

- `CREATE DATABASE database_name;`
  
  Create a database

- `DROP DATABASE [IF EXISTS] database_name;`
  
  Drop a database

- `CREATE TABLE [IF NOT EXISTS] table_name (field_name field_type);

  Create a table

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**BROWSING**

Show details of schemas, tables and fields.

- `USE database_name;`
  
  Use a database or change the current database to another database to use

- `SHOW DATABASES;`
  
  Show all available database in current MariaDB database server

- `SHOW TABLES;`
  
  Show all tables in a current database

- `SHOW CREATE TABLE table_name;`
  
  Show the create table statement that creates a specified table

- `SHOW FIELDS FROM table_name / DESCRIBE table_name;`
  
  Show the field information for a specified table

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**SELECT**

Select data from a MariaDB table.

- `SELECT * FROM table_name;`
  
  Select all rows from a table

- `SELECT column1, column2, ... FROM table_name`
  
  Select data from one or more columns

- `DROP TABLE [IF EXISTS] table_name;`
  
  Drop a table

- `ALTER TABLE table_name MODIFY [COLUMN] field_name field_type [NOT NULL];`
  
  Modify an existing field

- `ALTER TABLE table_name ADD [COLUMN] field_name field_type [NOT NULL];`
  
  Add a new field to a table
ALTER TABLE table_name
DROP [COLUMN] field_name;
Drop a column from a table

ORDER BY field_name[, field_name] [ASC] DESC;
Sorting a result set

INSERT / UPDATE / DELETE
Inserting, updating and deleting data within a MariaDB table

INSERT INTO table_name (field_name [, field_name, ...]) VALUES (value [, value, ...]);
Insert a row into a table

UPDATE table_name SET field_name = value [, field_name = value, ...] [WHERE condition];
Update rows in a table

DELETE FROM table_name [WHERE condition];
Delete rows from a table

SELECT field_list
FROM table_name_1 LEFT JOIN table_name_2 ON condition;
Select data from multiple tables using LEFT JOIN

SELECT field_list
FROM table_name_1 RIGHT JOIN table_name_2 ON condition;
Select data from multiple tables using RIGHT JOIN

TRUNCATE table_name;
Truncate all rows in a table

ADMIN TASKS
Perform common admin tasks

SELECT user,host FROM mysql.user;
List all users on the database instance

CREATE USER user[@'host'] IDENTIFIED BY 'plain-text-password';
Create a new user with a given password

SET PASSWORD FOR user[@'host'] = PASSWORD('new-plain-text-password');
Change the password for a user. Can also be done with ALTER USER

DROP USER user[@'host']
Remove a user from the system

CREATE DATABASE db_name
Create a new, empty database with a given name

GRANT ALL ON db_name.* TO user[@'host']
Grant all privileges on a given database to a particular user.

DROP DATABASE db_name
Remove a database from the system. All data will be physically deleted

SELECT field_list
FROM table_name_1 INNER JOIN table_name_2 ON condition;
Select data from multiple tables using INNER JOIN

SELECT field_list
FROM table_name_1 LEFT JOIN table_name_2 ON condition;
Select data from multiple tables using LEFT JOIN

SELECT field_list
FROM table_name_1 RIGHT JOIN table_name_2 ON condition;
Select data from multiple tables using RIGHT JOIN

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