MARIADB STANDARD DEVELOPER

CHEAT SHEET

MARIADB 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]
mariadb -u [username] -p -D
[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.

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

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

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
WHERE condition;
```

Select data with a filter using a WHERE clause

```
SELECT field_list
FROM table_name
WHERE condition
GROUP BY field_name[, field_name];
```

Grouping rows using the GROUP BY clause

```
SELECT field_list
SELECT field_list
FROM table_name_1 CROSS JOIN
table_name_2;
```

Select data from multiple tables using CROSS JOIN

SELECT - JOIN

Select data by joining multiple tables

```
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

```
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

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