11/11/2020 MySQL cheatsheet

#### **DEVHINTS.IO**

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# MySQL cheatsheet



#### **Implement Auth in Any**

Application in Just Five Minutes.

ads via Carbon

# Browsing Select

```
SHOW DATABASES;
SHOW TABLES;
SHOW FIELDS FROM table / DESCRIBE table;
SHOW CREATE TABLE table;
SHOW PROCESSLIST;
KILL process_number;
```

#### Select - Join

```
SELECT * FROM table;

SELECT * FROM table1, table2;

SELECT field1, field2 FROM table1, t

SELECT ... FROM ... WHERE condition

SELECT DISTINCT field1 FROM ...
```

```
SELECT ... FROM t1 JOIN t2 ON t1.id1 = t2.id2 WHERE condition;

SELECT ... FROM t1 LEFT JOIN t2 ON t1.id1 = t2.id2 WHERE condition;

SELECT ... FROM t1 JOIN (t2 JOIN t3 ON ...) ON ... Conditions
```

# Create / Open / Delete Database

```
field1 = value1
field1 <> value1
```

```
CREATE DATABASE DatabaseName;
CREATE DATABASE DatabaseName CHARACTER SET utf8;
USE DatabaseName;
DROP DATABASE DatabaseName;
ALTER DATABASE DatabaseName CHARACTER SET utf8;
```

## Backup Database to SQL File

## Restore from backup SQL File

```
mysqldump -u Username -p dbNameYouWant > databasename_backun sal
```

mysql - u Username -p dbNameYouWant

## Repair Tables After Unclean Shutdown

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```
Insert
  mysqlcheck --all-databases;
  mysqlcheck --all-databases --fast;
                                                            INSERT INTO table1 (field1, field2)
Delete
                                                          Update
  DELETE FROM table1 / TRUNCATE table1
                                                            UPDATE table1 SET field1=new value1
  DELETE FROM table1 WHERE condition
                                                            UPDATE table1, table2 SET field1=new
  DELETE FROM table1, table2 FROM table1, table2 WHERE tal
                                                              table1.id1 = table2.id2 AND condit
    table2.id2 AND condition
                                                          Create / Delete / Modify Table
Keys
  CREATE TABLE table (..., PRIMARY KEY (field1, field2))
                                                                                               fi
  CREATE TABLE table (..., FOREIGN KEY (field1, field2) REFERENCES table2
                                                                                               fi
  (t2_field1, t2_field2))
                                                                                               fi
                                                            CREATE TABLE table (field1 type1, fi
Users and Privileges
                                                            CREATE TABLE table1 (fk field1 tyne1
                                                                                              ES
  CREATE USER 'user'@'localhost';
                                                                                              IIS
  GRANT ALL PRIVILEGES ON base.* TO 'user'@'localhost' IDENTIFIED BY 'password';
  GRANT SELECT, INSERT, DELETE ON base.* TO 'user'@'localhost' IDENTIFIED BY 'password';
  REVOKE ALL PRIVILEGES ON base.* FROM 'user'@'host'; -- one permission only
                                                                                               e1
  REVOKE ALL PRIVILEGES, GRANT OPTION FROM 'user'@'host'; -- all permissions
                                                                                               !)
  FLUSH PRIVILEGES;
  SET PASSWORD = PASSWORD('new_pass');
  SET PASSWORD FOR 'user'@'host' = PASSWORD('new_pass');
  SET PASSWORD = OLD_PASSWORD('new_pass');
  DROP USER 'user'@'host';
  Host '%' indicates any host.
                                                            Alter
Main Data Types
  TINYINT (10: -217+128)
                                                                                               'nе
                                                                                               fi
  SMALLINT (20: +-65 000)
  MEDIUMINT (3o: +-16 000 000)
                                                                                               fi
                                                                                                D
```

```
INT (4o: +- 2 000 000 000)
                                                                                                P
                                                                                                1d
BIGINT (80: +-9.10^18)
                                                                                                1d
                                                                                                1d
Precise interval: -(2^{(8*N-1)}) \rightarrow (2^{8*N})-1
                                                                                                1);
△ INT(2) = "2 digits displayed" – NOT "number with 2 digits max"
FLOAT(M, D)
                                                                                                pe
DOUBLE(M, D)
                                                                                                'nе
FLOAT(D=0->53)
                                                                                                fi
                                                                                                fi
△ 8,3 -> 12345,678 - NOT 12345678,123!
                                                          Reset Root Password
TIME (HH:MM)
YEAR (AAAA)
                                                            $ /etc/init.d/mysql stop
DATE (AAAA-MM-JJ)
DATETIME (AAAA-MM-JJ HH:MM; années 1000->9999)
TIMESTAMP (like DATETIME, but 1970->2038, compatible wi
                                                            $ mysqld_safe --skip-grant-tables
VARCHAR (single-line; explicit size)
                                                            $ mysql # on another terminal
TEXT (multi-lines; max size=65535)
                                                            mysql> UPDATE mysql.user SET passwor
BLOB (binary; max size=65535)
                                                            ## Switch back to the mysqld_safe te
Variants for TEXT&BLOB: TINY (max=255), MEDIUM (max=~16000)
                                                            $ /etc/init.d/mysql start
VARCHAR(32), TINYTEXT, LONGBLOB, MEDIUMTEXT
                                                            Your commands may vary depending on yo
ENUM ('value1', 'value2', ...) -- (default NULL, or ''
```

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