3/16/2019 MySQL cheatsheet



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# MySQL cheatsheet

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#### Create / Delete Database

CREATE DATABASE dbNameYouWant
CREATE DATABASE dbNameYouWant CHARACTER SET utf8
DROP DATABASE dbNameYouWant
ALTER DATABASE dbNameYouWant CHARACTER SET utf8

## Repair Tables After Unclean Shutdown

mysqlcheck --all-databases
mysqlcheck --all-databases --fast

## Select

SELECT \* FROM table

SELECT \* FROM table1, table2, ...

SELECT field1, field2, ... FROM table1, table2, ...

SELECT ... FROM ... WHERE condition

SELECT ... FROM ... WHERE condition GROUPBY field

SELECT ... FROM ... WHERE condition GROUPBY field HAVING condition2

SELECT ... FROM ... WHERE condition ORDER BY field1, field2

SELECT ... FROM ... WHERE condition ORDER BY field1, field2

SELECT ... FROM ... WHERE condition LIMIT 10

SELECT DISTINCT field1 FROM ...

SELECT DISTINCT field1, field2 FROM ...

#### Insert

INSERT INTO table1 (field1, field2,  $\dots$ ) VALUES (value1, value2,  $\dots$ )

#### Delete

DELETE FROM table1 / TRUNCATE table1
DELETE FROM table1 WHERE condition

## Backup Database to SQL File

mysgldump -u Username -p dbNameYouWant > databasename backup.sgl

# Restore from backup SQL File

mysql - u Username -p dbNameYouWant < databasename\_backup.sql</pre>

#### **Browsing**

SHOW DATABASES
SHOW TABLES
SHOW FIELDS FROM table / DESCRIBE table
SHOW CREATE TABLE table
SHOW PROCESSLIST
KILL process\_number

#### Select - Join

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

field1 = value1
field1 <> value1
field1 LIKE 'value \_ %'
field1 IS NULL
field1 IS NOT NULL
field1 IS IN (value1, value2)
field1 IS NOT IN (value1, value2)
condition1 AND condition2
condition1 OR condition2

DELETE FROM table1, table2 FROM table1, table2 WHERE table1.id1 = table2.id2 AND condition

## Create / Delete / Modify Table

```
Create
CREATE TABLE table (field1 type1, field2 type2, ...)
CREATE TABLE table (field1 type1, field2 type2, ..., INDEX (field))
CREATE TABLE table (field1 type1, field2 type2, ..., PRIMARY KEY (field1))
CREATE TABLE table (field1 type1, field2 type2, ..., PRIMARY KEY (field1,
field2))
CREATE TABLE table1 (fk field1 type1, field2 type2, ...,
  FOREIGN KEY (fk field1) REFERENCES table2 (t2 fieldA))
    [ON UPDATE|ON DELETE] [CASCADE|SET NULL]
CREATE TABLE table1 (fk_field1 type1, fk_field2 type2, ...,
 FOREIGN KEY (fk field1, fk field2) REFERENCES table2 (t2 fieldA, t2 fieldB
CREATE TABLE table IF NOT EXISTS (...)
CREATE TEMPORARY TABLE table (...)
DROP TABLE table
DROP TABLE IF EXISTS table
DROP TABLE table1, table2, ...
ALTER TABLE table MODIFY field1 type1
ALTER TABLE table MODIFY field1 type1 NOT NULL ...
ALTER TABLE table CHANGE old name field1 new name field1 type1
ALTER TABLE table CHANGE old name field1 new name field1 type1 NOT NULL ...
ALTER TABLE table ALTER field1 SET DEFAULT ...
ALTER TABLE table ALTER field1 DROP DEFAULT
ALTER TABLE table ADD new_name_field1 type1
ALTER TABLE table ADD new name field1 type1 FIRST
ALTER TABLE table ADD new name field1 type1 AFTER another field
ALTER TABLE table DROP field1
ALTER TABLE table ADD INDEX (field);
Change field order
ALTER TABLE table MODIFY field1 type1 FIRST
ALTER TABLE table MODIFY field1 type1 AFTER another_field
ALTER TABLE table CHANGE old name field1 new name field1 type1 FIRST
ALTER TABLE table CHANGE old_name_field1 new_name_field1 type1 AFTER
  another field
```

## Update

```
UPDATE table1 SET field1=new_value1 WHERE condition
UPDATE table1, table2 SET field1=new_value1, field2=new_value2, ... WHERE
table1.id1 = table2.id2 AND condition
```

## Kevs

```
CREATE TABLE table (..., PRIMARY KEY (field1, field2))
CREATE TABLE table (..., FOREIGN KEY (field1, field2) REFERENCES table2
(t2_field1, t2_field2))
```

# **Users and Privileges**

```
GRANT ALL PRIVILEGES ON base.* TO 'user'@'localhost' IDENTIFIED BY 'password GRANT SELECT, INSERT, DELETE ON base.* TO 'user'@'localhost' IDENTIFIED BY REVOKE ALL PRIVILEGES ON base.* FROM 'user'@'host'; -- one permission only REVOKE ALL PRIVILEGES, GRANT OPTION FROM 'user'@'host'; -- all permissions

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.
```

#### Main Data Types

```
TINYINT (10: -217+128)

SMALLINT (20: +-65 000)

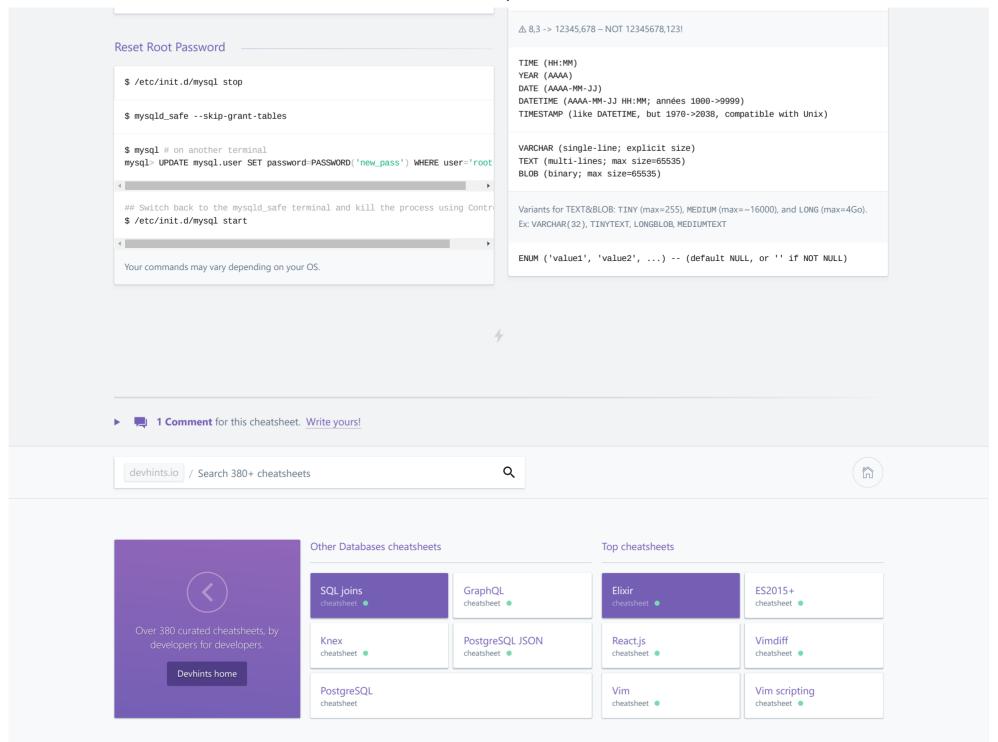
MEDIUMINT (30: +-16 000 000)

INT (40: +- 2 000 000 000)

BIGINT (80: +-9.10^18)

Precise interval: -(2^(8*N-1)) -> (2^8*N)-1

$\triangle \triangle \triangle
```



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