DOUBLE_D
PROGRAMMING HANDBOOK

```
Start service
SERVICE MYSQL START;
Open MySQL

Show commands
SHOW DATABASES;
SHOW TABLES;
Describe commands
DESCRIBE table_name;
Create commands
CREATE DATABASE database_name;
CREATE TABLE table_name(column1 varchar(int), ...);
Use commands
USE DATABASE database_name;
Data insertion
INSERT INTO table_name VALUES('value1, value2, ...');
INSERT INTO table_name (column1, column2, ... ,columnN) VALUES('A1','B1', ... ,'N1'), ('A2','B2', ... ,'N2');
LOAD DATA LOCAL INFILE '/root/...txt' INTO TABLE table_name;
Modify commands
ALTER TABLE table_name MODIFY column_name varchar(int);
ALTER TABLE table_name ADD new_column varchar(int);
UPDATE TABLE_NAME SET new_value = '' WHERE old_value = '';
Drop commands
DROP DATABASE database_name;
DROP TABLE table_name;
ALTER TABLE table_name DROP column_name;
Select commands
SELECT*FROM table_name;
SELECT*FROM table_name WHRERE column_name = 'value';
SELECT*FROM table_name WHRERE column_name = 'value' AND column_name = 'value';
SELECT column_name FROM table_name;
SELECT column1_name, column2_name, ...columnN_name FROM rable_name;
SELECT column_name, DOBcolumn FROM table_name ORDER BY DOBcolumn ASC;
SELECT column_name, DOBcolumn FROM table_name ORDER BY DOBcolumn DESC;
SELECT column_name, DOBcolumn, TIMESTAMPDIFF (YEAR,DOBcolumn,CURDATE()) AS AGEcolumn FROM table_name; //get age from DOB column
SELECT column_name, DOBcolumn, DATE(DOBcolumn) FROM table_name; //get birth date
SELECT column_name, DOBcolumn, MONTH(DOBcolumn) FROM table_name; //get birth month
SELECT column_name, DOBcolumn, YEAR(DOBcolumn) FROM table_name; //get birth year
SELECT column_name, DOBcolumn, YEAR(DOBcolumn) FROM table_name WHERE YEAR(DOBcolumn) = 'year'; //get data of same year from dobcolumn
SELECT*FROM table_name WHERE NAMEcolumn LIKE 'A%'; //get names start from A
SELECT*FROM table_name WHERE NAMEcolumn LIKE 'A_____%'; //get names start from A and have 6 characters
SELECT*FROM table_name WHERE NAMEcolumn LIKE '%A'; //get names end from A
SELECT column_name FROM table_name WHERE name_column REGEXP '{A,E,I,O,U}';
Inner join
SELECT*FROM table1_name a INNER JOIN table2_name b ON a.table1_foreign_key = b.table2_foreign_key;
Left outer join
SELECT*FROM table1_name a LEFT OUTER JOIN table2_name b ON a.table1_foreign_key = b.table2_foreign_key;
Right outer join
SELECT*FROM table1_name a RIGHT OUTER JOIN table2_name b ON a.table1_foreign_key = b.table2_foreign_key;
Full outer join
SELECT*FROM table1_name a FULL OUTER JOIN table2_name b ON a.table1_foreign_key = b.table2_foreign_key;
Cross join
SELECT*FROM table1_name a CROSS JOIN table2_name b ON a.table1_foreign_key = b.table2_foreign_key;
Set primary key
ALTER TABLE table_name ADD PRIMARY KEY (primary_key_column_name);
Set foreign key
ALTER TABLE table_name ADD FOREIGN KEY(foreign_key_column) REFERENCES table2(foreign_key_column) ON UPDATE CASCADE ON DELETE CASCADE;
SET FOREIGN_KEY_CHECKED = 0; //CHECKES

SELECT column_name FROM table1_name WHERE table1_foreign_key IN (SELECT table2_foreign_key FROM table2_name);
Dump database
musqldump -u root -p database_name >'\root\file_name.sql';
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