# Database

SQL => stands for structured query language

DBMS => database management system , RDBMS => relational DBMS

1. CREATE DATABASE `databaseName` (CREATE DATABASE IF NOT EXISTS `databaseName`)
2. DROP DATABASE `databaseName` (DROP DATABASE IF EXISTS `databaseName`)
3. CREATE TABLE (  
    `columnName` dataType Constraints Extra,  
    `coumnName2` dataType Constraints Extra  
   )
4. DROP TABLE `tableName`
5. ALTER TABLE `tableName` ADD `columnName` dataType Constraint Extra AFTER `existColumn`
6. ALTER TABLE `tableName` CHANGE `columnName` `newColumnName` datatype constraint extra
7. ALTER TABLE `tableName` DROP COLUMN `columnName`
8. ALETER TABLE `tableName` ADD CONSTRAINT `constraintName` FOREIN KEY(`foreinKeyColumn`) REFERENCES `referenceTable`(`primaryKeyColumn`) ON DELETE CASCADE ON UPDATE SET NULL
9. INSERT INTO `tableName` (columns, columns) VALUES (values, values)

INSERT INTO `tableName` VALUES (DEFAULT , values, values , .. ) // in same order

INSERT INTO `tableName` VALUES (DEFAULT , values, values , .. ) , () , () …..

1. DELETE FROM `tableName` // delete all table

DELETE FROM `tableName` WHERE condition

1. UPDATE `tableName` SET `tableName`.`columnName` = value1 , `tableName`.`columnName2` = value2 // all table will be updated

UPDATE `tableName` SET `tableName`.`columnName` = value1 , `tableName`.`columnName2` = value2 WHERE condition

1. SELECT `tableName`.\* FROM `tableName`

SELECT `tablaName`.`columnName1` AS `newColumnName`,`tablaName`.`columnName2` FROM `tableName` WHERE condition

1. /\* \*/ multiline comment , # single line comment
2. Operators (arthimatic,comparison , logical)

## Day2

1. WHERE `tableName`.`columnName` BETWEEN minValue AND maxValue
2. WHERE `tableName`.`columnNAme` IN(‘value1’,value2,….)
3. WHERE `tableName`.`columName` IS NULL , IS NOT NULL
4. Aggreates Functions (MAX(),MIN(),SUM(),AVG(),COUNT(),GROUP\_CONCAT())
5. GROUP BY `tableName`.`columnName`
6. ORDER BY `tableName`.`columName1` ASC || DESC , `tableName`.`columName2` ASC || DESC
7. HAVING condition // aliases column
8. LIMIT 5,7
9. LEFT JOIN , RIGHT JOIN , INNER JOIN
10. WHERE ` columnName ` LIKE ‘%\_’
11. EX::

**SELECT** `tableName`.`columnName` , **aggregate**() AS `newName`

**FROM** `tableName`

**JOIN** `tableName2`

**ON** `forienkey` = `primaryKey`

**WHERE** condtion

**GROUP** **BY** `columnName`

**HAVING** condtion

**ORDER** **BY** `tableName`.`columName1` **ASC** || **DESC** , `tableName`.`columName2` **ASC** || **DESC**

**LIMIT** value