Login
mysql -u root -p
mysql -h ip주소 -u 계정 -p
Show Users
SELECT User, Host FROM mysql.user;
Create User
CREATE USER 'someuser'@'localhost' IDENTIFIED BY 'somepassword';
Delete User
DROP USER 'someuser'@'localhost';
Grant All Priveleges On All Databases
GRANT ALL PRIVILEGES ON * . * TO 'someuser'@'localhost';
FLUSH PRIVILEGES;
Show Grants
SHOW GRANTS FOR 'someuser'@'localhost';
Remove Grants
REVOKE ALL PRIVILEGES, GRANT OPTION FROM 'someuser'@'localhost';
Show Databases
SHOW DATABASES;

```
Create Database
CREATE DATABASE dbname;
Delete Database
DROP DATABASE dbname;
Select Database
USE dbname;
Create Table
CREATE TABLE users( id INT AUTO_INCREMENT,
   first_name VARCHAR(100),
   last_name VARCHAR(100),
   email VARCHAR(50),
   password VARCHAR(20),
   location VARCHAR(100),
   dept VARCHAR(100),
   is_admin TINYINT(1),
   register_date DATETIME,
   PRIMARY KEY(id)
);
Add New Column
ALTER TABLE users ADD age VARCHAR(3);
```

Modify Column

ALTER TABLE users MODIFY COLUMN age INT(3);

Delete Table

DROP TABLE tablename;

Show Tables

SHOW TABLES:

Insert Row / Record

INSERT INTO users (first_name, last_name, email, password, location, dept, is_admin, register_date) values ('Brad', 'Traversy', 'brad@gmail.com', '123456','Massachusetts', 'development', 1, now());

Insert Multiple Rows

INSERT INTO users (first_name, last_name, email, password, location, dept, is_admin, register_date) values ('Fred', 'Smith', 'fred@gmail.com', '123456', 'New York', 'design', 0, now()), ('Sara', 'Watson', 'sara@gmail.com', '123456', 'New York', 'design', 0, now()), ('Will', 'Jackson', 'will@yahoo.com', '123456', 'Rhode Island', 'development', 1, now()), ('Paula', 'Johnson', 'paula@yahoo.com', '123456', 'Massachusetts', 'sales', 0, now()), ('Tom', 'Spears', 'tom@yahoo.com', '123456', 'Massachusetts', 'sales', 0, now());

Update Row

UPDATE users SET email = 'freddy@gmail.com' WHERE id = 2;

SELECT문 형식

```
SELECT select_expr
  [FROM table_references]
  [WHERE where_condition]
  [GROUP BY {col_name | expr | position}]
  [HAVING where_condition]
  [ORDER BY {col_name | expr | position}]
```

```
SELECT * FROM users;
SELECT first name, last name FROM users;
Where Clause
SELECT * FROM users WHERE location='Massachusetts';
SELECT * FROM users WHERE location='Massachusetts' AND dept='sales';
SELECT * FROM users WHERE is_admin = 1;
SELECT * FROM users WHERE is_admin > 0;
Order By (Sort)
SELECT * FROM users ORDER BY last_name ASC;
SELECT * FROM users ORDER BY last_name DESC;
Concatenate Columns
SELECT CONCAT(first_name,' ', last_name) AS 'Name', dept FROM users;
Select Distinct Rows
SELECT DISTINCT location FROM users;
Between (Select Range)
SELECT * FROM users WHERE age BETWEEN 20 AND 25;
Like (Searching)
SELECT * FROM users WHERE dept LIKE 'd%';
SELECT * FROM users WHERE dept LIKE 'dev%';
SELECT * FROM users WHERE dept LIKE '%t';
```

```
SELECT * FROM users WHERE dept LIKE '%e%';
Not Like
SELECT * FROM users WHERE dept NOT LIKE 'd%';
IN
SELECT * FROM users WHERE dept IN ('design', 'sales');
Create & Remove Index
CREATE INDEX idx_location On users(location);
DROP INDEX idx location ON users;
New Table With Foreign Key (Posts)
CREATE TABLE posts(
  id INT AUTO_INCREMENT,
   user_id INT,
  title VARCHAR(100),
  body TEXT,
   publish_date DATETIME DEFAULT CURRENT_TIMESTAMP,
   PRIMARY KEY(id),
   FOREIGN KEY (user_id) REFERENCES users(id)
```

Add Data to Posts Table

);

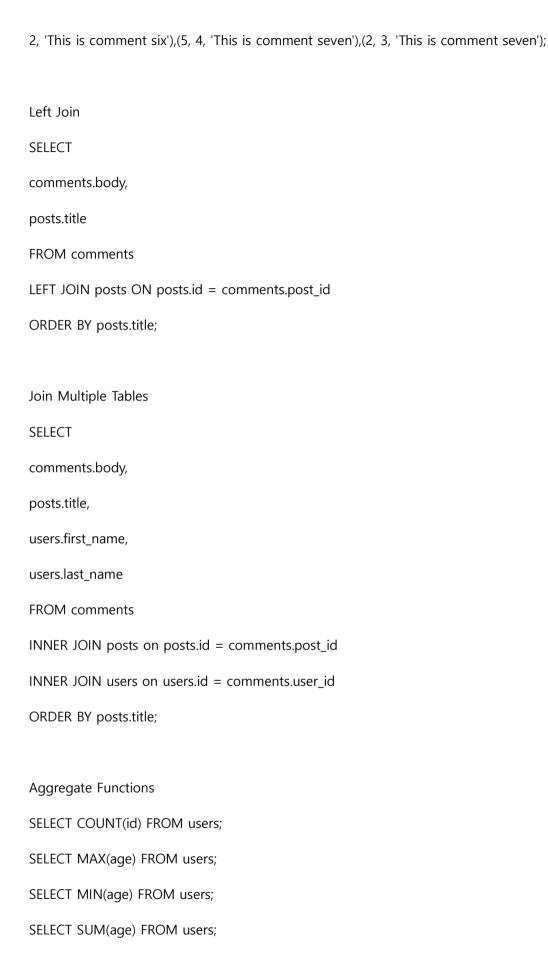
INSERT INTO posts(user_id, title, body) VALUES (1, 'Post One', 'This is post one'),(3, 'Post Two', 'This is post two'),(1, 'Post Three', 'This is post three'),(2, 'Post Four', 'This is post four'),(5, 'Post Five', 'This is post five'),(4, 'Post Six', 'This is post six'),(2, 'Post Seven', 'This is post seven'),(1, 'Post Eight', 'This is post eight'),(3, 'Post Nine', 'This is post none'),(4, 'Post Ten', 'This is post ten');

INNER JOIN SELECT users.first_name, users.last_name, posts.title, posts.publish_date FROM users **INNER JOIN posts** ON users.id = posts.user_id ORDER BY posts.title; New Table With 2 Foriegn Keys **CREATE TABLE comments(** id INT AUTO_INCREMENT, post_id INT, user_id INT, body TEXT, publish_date DATETIME DEFAULT CURRENT_TIMESTAMP, PRIMARY KEY(id), FOREIGN KEY(user_id) references users(id), FOREIGN KEY(post_id) references posts(id)

Add Data to Comments Table

);

INSERT INTO comments(post_id, user_id, body) VALUES (1, 3, 'This is comment one'),(2, 1, 'This is comment two'),(5, 3, 'This is comment three'),(2, 4, 'This is comment four'),(1, 2, 'This is comment five'),(3, 1, 'This is comment six'),(3, 2, 'This is comment five'),(3, 1, 'This is comment six'),(3, 3, 'This is comment five'),(3, 1, 'This is comment six'),(3, 3, 'This is comment five'),(3, 1, 'This is comment six'),(3, 3, 'This is comment five'),(3, 1, 'This is comment six'),(3, 3, 'This is comment six'),(3, 3,



SELECT UCASE(first_name), LCASE(last_name) FROM users;

Group By / having

SELECT age FROM users GROUP BY age;

SELECT age FROM users WHERE age > 20 GROUP BY age;

SELECT age, avg(age) FROM users GROUP BY age HAVING avg(age) >=2;

SUB QUERY

SELECT * FROM users WHERE location=

(SELECT location FROM users WHERE email = 'sara@gmail.com');