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# MySQL Cheat Sheet      > Help with SQL commands to interact with a MySQL database

## MySQL Locations      * Mac      */usr/local/mysql/bin*      * Windows      */Program Files/MySQL/MySQL_version_/bin*      *
Xampp      */xampp/mysql/bin*

## Add mysql to your PATH # Current Session      export PATH=${PATH}:/usr/local/mysql/bin

# Permanantly      echo 'export PATH="/usr/local/mysql/bin:$PATH"' >> ~/.bash_profile

On Windows - https://www.qualitestgroup.com/resources/knowledge-center/how-to-guide/add-mysql-path-windows/

## Login      mysql -u root -p      ## Show Users      SELECT User, Host FROM mysql.user;      ## Create User      CREATE USER 'someuser'@'localhost' IDENTIFIED BY 'somepassword';

## 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';      ## Delete User      DROP USER 'someuser'@'localhost';

## Exit      exit;      ## Show Databases      SHOW DATABASES      ## Create Database      CREATE DATABASE acme;      ## Delete Database      DROP DATABASE acme;

## Select Database      USE acme;      ## 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) );

## Delete / Drop Table      DROP TABLE tablename;      # Show Tables      SHOW TABLES;      ## Insert Row      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());

## Select      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;

## Delete Row:-      DELETE FROM users WHERE id = 6;      ## Update Row      UPDATE users SET email = 'freddy@gmail.com' WHERE id = 2;      ## Add New Column      ALTER TABLE users ADD age VARCHAR(3);      ## Modify Column      ALTER TABLE users MODIFY COLUMN age INT(3);      ## 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 Index On users(location);      DROP INDEX Index 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 osts.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 six'), (5, 4, 'This is comment seven'), (2, 3, 'This is comment seven');      ## Left Join      SELECT comments.body, posts.title FROM comments LEFT JOIN posts ON posts.id = comments.post_id ORDER BY posts.title;      ## Join Multiple Tables      SELECT comments.body, posts.title, users.first_name, users.last_name FROM comments INNER JOIN posts on posts.id = comments.post_id INNER JOIN users on users.id = comments.user_id ORDER BY posts.title;      ## Aggregate Functions      SELECT COUNT(id) FROM users;      SELECT MAX(age) FROM users;

SELECT MIN(age) FROM users; SELECT SUM(age) FROM users; SELECT UCASE(first_name), LCASE(last_name) FROM users;      ## Group By      SELECT age, COUNT(age) FROM users GROUP BY age;

SELECT age, COUNT(age) FROM users WHERE age > 20 GROUP BY age;      SELECT age, COUNT(age) FROM users GROUP BY age HAVING count(age) >=2;
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