SQL

1. **Creating Database:**

CREATE DATABASE CompanyDB

1. **Create Table in that Database:**

CREATE TABLE Employees (

id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(50) NOT NULL,

age INT NOT NULL,

department VARCHAR(50),

salary DECIMAL(10, 2)

);

1. **Insert Data In Table:**

INSERT INTO Employees (name, age, department, salary)

VALUES

('Jane Smith', 25, 'IT', 60000.00),

('Mike Ross', 35, 'Finance', 55000.00),

('Anna White', 28, 'Marketing', 45000.00);

1. **How to view Data:**

SELECT \* FROM Employees;

1. **Update data:**

UPDATE Employees SET department = 'IT', salary = 48000.00 WHERE name = 'Samuel Green';

1. **Delete Data:**

DELETE FROM Employees WHERE id = 4;

1. **Add New Column:**

ALTER TABLE Employees ADD COLUMN hire\_date DATE;

1. **Insert data into new column:**

UPDATE EmployeesSET hire\_date = '2025-01-01' WHERE id = 1;

1. **Filtering the data to access:**

SELECT \* FROM Employees WHERE age > 25 AND salary < 60000;

1. **Order By: (Ascending = ASC Descending = DESC)**

SELECT \* FROM Employees ORDER BY salary DESC;

1. **GroupBy (Count he same rows and perform Aggeregate functions on it):**

SELECT department, COUNT(\*) AS employee\_count FROM Employees GROUP BY department;

1. **Between:(Specific range)**

SELECT \* FROM Employees WHERE salary BETWEEN 45000 AND 55000;

1. **Stored Procedure:**

CREATE PROCEDURE GetEmployeesByDept (IN dept\_name VARCHAR(50))

BEGIN

SELECT \* FROM Employees

WHERE department = dept\_name;

END;

1. **How to execute it:**

CALL GetEmployeesByDept('IT');