**Name – Aaditya M. Patil**

**PRN – 12210643**

**Roll NO – 58**

**DBMS – Assignment 2**

**Script\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

-- Design and Execute "SELECT" queries using conditional, logical, like/not like, in/not in, between...'

-- and, is null/is not null operators in where clause, order by, group by, aggregate functions, having clause, and set operators.

-- Use SQL single row functions for date, time, string etc.

-- Create Database

CREATE DATABASE IF NOT EXISTS company\_database;

-- Use the created database

USE company\_database;

-- Create Table

CREATE TABLE IF NOT EXISTS employees (

    emp\_id INT PRIMARY KEY,

    emp\_name VARCHAR(100),

    department VARCHAR(100),

    salary DECIMAL(10, 2),

    hire\_date DATE

);

-- Insert Sample Data

INSERT INTO employees (emp\_id, emp\_name, department, salary, hire\_date) VALUES

(1, 'John Doe', 'IT', 60000, '2020-01-15'),

(2, 'Jane Smith', 'HR', 55000, '2019-05-20'),

(3, 'Bob Johnson', 'Finance', 70000, '2018-11-10'),

(4, 'Alice Williams', 'IT', 62000, '2020-03-25'),

(5, 'Charlie Brown', 'Finance', 68000, '2019-09-05');

-- Select Query Demonstrating Various Operations

SELECT \* FROM employees

WHERE department IN ('IT', 'HR')

AND salary > 60000

AND emp\_name LIKE 'J%'

AND hire\_date BETWEEN '2019-01-01' AND '2020-01-01'

AND department IS NOT NULL

ORDER BY salary DESC;

-- Aggregation with GROUP BY and HAVING clause

SELECT department, AVG(salary) AS avg\_salary

FROM employees

GROUP BY department

HAVING AVG(salary) > 60000;

-- SQL functions for date, time, string etc.

SELECT emp\_name, DATE\_FORMAT(hire\_date, '%Y-%m-%d') AS hire\_date\_formatted, UPPER(emp\_name) AS upper\_emp\_name

FROM employees;

-- Clean Up (Optional)

-- DROP TABLE IF EXISTS employees;

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**Console Logs (Outputs):**



