1. **Create Tables:**

CREATE TABLE employees (

emp\_id INT PRIMARY KEY,

name VARCHAR(50),

department\_id INT,

salary DECIMAL(10, 2)

);

CREATE TABLE departments (

department\_id INT PRIMARY KEY,

department\_name VARCHAR(50)

);

1. **Insert Data into Tables:**

INSERT INTO departments (department\_id, department\_name)

VALUES (101, 'HR'), (102, 'Marketing'), (103, 'Engineering');

INSERT INTO employees (emp\_id, name, department\_id, salary)

VALUES (1, 'Alice', 101, 50000),

(2, 'Bob', 102, 60000),

(3, 'Charlie', 103, 70000);

1. **Use Joins:**

SELECT employees.name, departments.department\_name

FROM employees

INNER JOIN departments ON employees.department\_id = departments.department\_id;

1. **Use Subqueries:**

SELECT name, salary

FROM employees

WHERE department\_id = (SELECT department\_id FROM departments WHERE department\_name = 'Marketing');

1. **Create and Query a View:**

CREATE VIEW employee\_details AS

SELECT employees.name, employees.salary, departments.department\_name

FROM employees

JOIN departments ON employees.department\_id = departments.department\_id;

SELECT \* FROM employee\_details;