-- Creating the employees table

CREATE TABLE employees (

emp\_id INT,

emp\_name VARCHAR(50),

dept\_id INT

);

-- Creating the departments table

CREATE TABLE departments (

dept\_id INT,

dept\_name VARCHAR(50)

);

-- Inserting data into employees

INSERT INTO employees (emp\_id, emp\_name, dept\_id) VALUES

(1, 'Alice', 1),

(2, 'Bob', 2),

(3, 'Charlie', 1),

(4, 'David', 3),

(5, 'Eve', NULL);

-- Inserting data into departments

INSERT INTO departments (dept\_id, dept\_name) VALUES

(1, 'HR'),

(2, 'Finance'),

(3, 'IT'),

(4, ‘Marketing');

—Inner join =

SELECT employees.emp\_name, departments.dept\_name

FROM employees

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

—Left join =

SELECT employees.emp\_name, departments.dept\_name

FROM employees

LEFT JOIN departments ON employees.dept\_id = departments.dept\_id;

—Right join =

SELECT employees.emp\_name, departments.dept\_name

FROM employees

RIGHT JOIN departments ON employees.dept\_id = departments.dept\_id;

—Full join =

SELECT employees.emp\_name, departments.dept\_name

FROM employees

FULL JOIN departments ON employees.dept\_id = departments.dept\_id;

—subqueries=

—Find all employees who work in the HR department

SELECT emp\_name

FROM employees

WHERE dept\_id = (SELECT dept\_id FROM departments WHERE dept\_name = ‘HR');

—creating view =

CREATE VIEW employee\_department\_view AS

SELECT e.emp\_id, e.emp\_name, d.dept\_name

FROM employees e

LEFT JOIN departments d ON e.dept\_id = d.dept\_id;

SELECT \* FROM employee\_department\_view;