Name : P.Suhitha

Reg No : 192311152

Course Code : CSA0560

2 Module-Section-6-6.3--Practice PDF

JOINS-PART 2

SQL Queries

Problem 1: Return the first name, last name, and department name for all employees, including those not assigned to a department.

This scenario requires a **left outer join**, as we want all employees, even if they don't belong to a department.

```
SELECT e.first_name, e.last_name, d.department_name
FROM employees e
LEFT OUTER JOIN departments d
ON e.department_id = d.department_id;
```

Problem 2: Return the first name, last name, and department name for all employees, including those departments that do not have an employee assigned to them.

A **right outer join** ensures all departments are returned, even if they do not have employees.

```
SELECT e.first_name, e.last_name, d.department_name
FROM employees e
RIGHT OUTER JOIN departments d
ON e.department_id = d.department_id;
```

Problem 3: Return the first name, last name, and department name for all employees, including those departments that do not have an employee assigned to them and those employees not assigned to a department.

A **full outer join** is required to retrieve all rows from both tables, whether or not there are matches.

```
SELECT e.first_name, e.last_name, d.department_name
FROM employees e
FULL OUTER JOIN departments d
ON e.department_id = d.department_id;
```

Problem 4: Create a query of the DJs on Demand database to return the first name, last name, event date, and description of the event the client held. Include all clients even if they have not had an event scheduled.

This requires a **left outer join**, as all clients need to be included even if they haven't held an event.

```
SELECT c.first_name, c.last_name, e.event_date, e.event_description
FROM clients c
LEFT OUTER JOIN events e
ON c.client_id = e.client_id;
```

Problem 5: Using the Global Fast Foods database, show the shift description and shift assignment date even if there is no date assigned for each shift description.

This scenario calls for a **left outer join** to include all shift descriptions, even if no assignment date exists.

```
SELECT s.shift_description, sa.assignment_date
FROM shifts s
LEFT OUTER JOIN shift_assignments sa
```

```
ON s.shift_id = sa.shift_id;
```