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2 Module – Section-6 : : 6.1-- Practice PDF

JOINS-PART 1

SQL Queries

Problem 1: Create a cross-join that displays the last name and department name from the employees and departments tables.

A **cross join** returns the Cartesian product, meaning all combinations of rows between the two tables.

```
SELECT e.last_name, d.department_name
```

```
FROM employees e
```

```
CROSS JOIN departments d;
```

Problem 2: Create a query that uses a natural join to join the departments table and the locations table. Display the department id, department name, location id, and city

A **natural join** automatically joins tables on columns with the same names and compatible data types.

```
SELECT d.department_id, d.department_name, l.location_id, l.city
```

```
FROM departments d
```

```
NATURAL JOIN locations l;
```

Problem 3: Create a query that uses a natural join to join the departments table and the locations table. Restrict the output to only department IDs of 20 and 50. Display the department id, department name, location id, and city.

```
SELECT d.department_id, d.department_name, l.location_id, l.city
```

```
FROM departments d
```

```
NATURAL JOIN locations l
```

```
WHERE d.department_id IN (20, 50);
```

