

1

```
SQL> SELECT L.LOCATION_ID, COUNT(D.DEPARTMENT_ID) AS NUM_DEPARTMENTS
2 FROM LOCATIONS L
3 LEFT JOIN DEPARTMENTS D ON L.LOCATION_ID = D.LOCATION_ID
4 WHERE D.DEPARTMENT_ID IS NOT NULL
5* GROUP BY L.LOCATION_ID;
```

2

```
SQL> SELECT L.LOCATION_ID, COUNT(D.DEPARTMENT_ID) AS NUM_DEPARTMENTS
2 FROM LOCATIONS L
3 LEFT JOIN DEPARTMENTS D ON L.LOCATION_ID = D.LOCATION_ID
4* GROUP BY L.LOCATION_ID;
```

3

```
SQL> SELECT L.LOCATION_ID, COUNT(D.DEPARTMENT_ID) AS NUM_DEPARTMENTS
2 FROM LOCATIONS L
3 LEFT JOIN DEPARTMENTS D ON L.LOCATION_ID = D.LOCATION_ID
4 GROUP BY L.LOCATION_ID
5* HAVING COUNT(D.DEPARTMENT_ID) > 1;
```

4

```
SQL> SELECT D.DEPARTMENT_NAME, D.LOCATION_ID, COUNT(E.EMPLOYEE_ID) AS NUM_EMPLOYEES,
2 SUM(E.SALARY) AS TOTAL_SALARY, AVG(E.SALARY) AS AVG_SALARY
3 FROM DEPARTMENTS D
4 LEFT JOIN EMPLOYEES E ON D.DEPARTMENT_ID = E.DEPARTMENT_ID
5 GROUP BY D.DEPARTMENT_NAME, D.LOCATION_ID
6* ORDER BY D.LOCATION_ID ASC, AVG(E.SALARY) DESC;[]
```

5

```
SQL> SELECT D.DEPARTMENT_NAME, D.LOCATION_ID, COUNT(E.EMPLOYEE_ID) AS NUM_EMPLOYEES,
2 SUM(E.SALARY) AS TOTAL_SALARY, AVG(E.SALARY) AS AVG_SALARY
3 FROM DEPARTMENTS D
4 LEFT JOIN EMPLOYEES E ON D.DEPARTMENT_ID = E.DEPARTMENT_ID
5 GROUP BY D.DEPARTMENT_NAME, D.LOCATION_ID
6 UNION ALL
7 SELECT 'NO DEPARTMENT' AS DEPARTMENT_NAME, NULL AS LOCATION_ID,
8 COUNT(E.EMPLOYEE_ID) AS NUM_EMPLOYEES, SUM(E.SALARY) AS TOTAL_SALARY,
9 AVG(E.SALARY) AS AVG_SALARY
10 FROM EMPLOYEES E
11* WHERE E.DEPARTMENT_ID IS NULL;
```

6

```

SQL> SELECT
  2     c.country_name AS Pais,
  3     COUNT(e.employee_id) AS "Número d'empleats"
  4 FROM
  5     countries c
  6 LEFT JOIN
  7     locations l ON c.country_id = l.country_id
  8 LEFT JOIN
  9     departments d ON l.location_id = d.location_id
 10 LEFT JOIN
 11     employees e ON d.department_id = e.department_id
 12 GROUP BY
 13     c.country_name
 14 HAVING
 15     COUNT(e.employee_id) > 0
 16 ORDER BY
 17*    c.country_name;

```

7

```

SQL> SELECT
  2     c.country_name AS Pais,
  3     COUNT(e.employee_id) AS "Número d'empleats"
  4 FROM
  5     countries c
  6 LEFT JOIN
  7     locations l ON c.country_id = l.country_id
  8 LEFT JOIN
  9     departments d ON l.location_id = d.location_id
 10 LEFT JOIN
 11     employees e ON d.department_id = e.department_id
 12 GROUP BY
 13     c.country_name
 14 ORDER BY
 15*    COUNT(e.employee_id) DESC;

```

```

SQL> SELECT
  2     e.first_name || ' ' || e.last_name AS "Nom Empleat",
  3     e.hire_date AS "Data de Contracte",
  4     CASE
  5         WHEN m.first_name IS NOT NULL THEN m.first_name || ' ' || m.last_name
  6         ELSE 'Sense Cap'
  7     END AS "Nom Cap",
  8     d.department_name AS "Nom Departament",
  9     e.job_id AS "Ocupació"
 10 FROM
 11     employees e
 12 LEFT JOIN
 13     employees m ON e.manager_id = m.employee_id
 14 LEFT JOIN
 15     departments d ON e.department_id = d.department_id
 16 ORDER BY
 17*    e.employee_id;

```