

## Activitat 0

## Activitat 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;
```

LOCATION_ID	NUM_DEPARTMENTS
1400	1
1500	1
1700	21
1800	1
2400	1
2500	1
2700	1

## Activitat 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;
```

## Activitat 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;
```

## Activitat 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;
```

## Activitat 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;
```

## Activitat 6

```
SQL> SELECT c.country_name AS "Pais", COUNT(e.employee_id) AS "Número d'empleats"
2 FROM countries c
3 JOIN locations l ON c.country_id = l.country_id
4 JOIN departments d ON l.location_id = d.location_id
5 JOIN employees e ON d.department_id = e.department_id
6 GROUP BY c.country_name
7* ORDER BY c.country_name;
```

Pais	Número d'empleats
Canada	2
Germany	1
United Kingdom	35
United States of America	68

## Activitat 7

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

## Activitat 8

```
SQL> SELECT
2 e.first_name || ' ' || e.last_name AS "Nom",
3 TO_CHAR(e.hire_date, 'DD/MM/YY') AS "Data con Cap",
4 m.first_name || ' ' || m.last_name AS "Cap",
5 d.department_name AS "Departament del cap",
6 j.job_title AS "Ocupació del cap"
7 FROM employees e
8 LEFT JOIN employees m ON e.manager_id = m.employee_id
9 LEFT JOIN departments d ON m.department_id = d.department_id
10 LEFT JOIN jobs j ON m.job_id = j.job_id
11* ORDER BY e.hire_date;
```

## Activitat 9

```
SQL> SELECT e.first_name || ' ' || e.last_name
2 AS "Nom", TO_CHAR(jh.start_date, 'DD Month YYYY')
3 AS "Data inici", TO_CHAR(jh.end_date, 'DD Month YYYY')
4 AS "Data fi", d.department_name
5 AS "Departament", j.job_title
6 AS "Ocupació"
7 FROM job_history jh
8 JOIN employees e ON jh.employee_id = e.employee_id
9 JOIN jobs j ON jh.job_id = j.job_id
10 LEFT JOIN departments d ON e.department_id = d.department_id
11* ORDER BY jh.start_date, "Nom";
```