```
SELECT
```

I.city AS ciutat, COUNT(d.department_id) AS numero_departaments FROM locations I JOIN departments d ON I.location_id = d.location_id GROUP BY I.city;

```
SQL> SELECT
  2
         l.city AS ciutat,
         COUNT(d.department_id) AS numero_departaments
 3
 4 FROM locations l
 5 JOIN departments d ON l.location_id = d.location_id
 6* GROUP BY l.city;
CIUTAT
                          NUMERO_DEPARTAMENTS
                                             1
Toronto
London
                                             1
Munich
Southlake
                                             1
South San Francisco
Seattle
                                            21
0xford
                                             1
7 rows selected.
SQL>
```

```
2
SELECT
I.city AS ciutat,
COUNT(d.department_id) AS numero_departaments
FROM locations I
LEFT JOIN departments d ON I.location_id = d.location_id
GROUP BY I.city;
```

```
SOL> SELECT
         l.city AS ciutat,
         COUNT(d.department_id) AS numero_departaments
  4 FROM locations l
  5 LEFT JOIN departments d ON l.location_id = d.location_id
  6* GROUP BY l.city;
CIUTAT
                           NUMERO_DEPARTAMENTS
Sao Paulo
                                             0
Toronto
                                             1
London
Munich
Sydney
                                             0
                                             0
Geneva
Stretford
                                             0
Southlake
Singapore
                                             0
Mexico City
                                             0
Hiroshima
                                             0
Bern
                                             0
Bombay
                                             0
Utrecht
                                             0
Tokyo
                                             0
South San Francisco
Beijing
                                             0
Seattle
                                            21
South Brunswick
                                             0
0xford
                                             0
Roma
Venice
                                             0
Whitehorse
                                             0
23 rows selected.
SQL>
```

```
SELECT
I.city AS ciutat,
COUNT(d.department_id) AS numero_departaments
FROM locations I
JOIN departments d ON I.location_id = d.location_id
GROUP BY I.city
HAVING COUNT(d.department_id) > 1;
```

```
SQL>
SQL>
SOL> SELECT
  2
         l.city AS ciutat,
        COUNT(d.department_id) AS numero_departaments
  3
  4
    FROM locations l
    JOIN departments d ON l.location id = d.location id
  5
    GROUP BY l.city
  7* HAVING COUNT(d.department id) > 1;
              NUMERO_DEPARTAMENTS
CIUTAT
                               21
Seattle
SQL>
```

```
SELECT

d.department_name AS nom_departament,
c.country_name AS pais,
COUNT(e.employee_id) AS numero_empleats,
SUM(e.salary) AS suma_salaris,
AVG(e.salary) AS mitjana_salaris
FROM departments d
JOIN locations I ON d.location_id = I.location_id
JOIN countries c ON I.country_id = c.country_id
LEFT JOIN employees e ON d.department_id = e.department_id
GROUP BY d.department_name, c.country_name
ORDER BY c.country_name ASC, mitjana_salaris DESC;
```

```
5
SELECT
```

'Sense departament' AS nom_departament,

'Sense país' AS pais,

COUNT(e.employee_id) AS numero_empleats,

SUM(e.salary) AS suma salaris,

AVG(e.salary) AS mitjana_salaris

FROM employees e

WHERE e.department_id IS NULL

GROUP BY 'Sense departament', 'Sense país'

ORDER BY mitjana_salaris DESC;

6 Feu una consulta que mostri el nom del pais i el numero d'empleats d'aquells paisos amb departaments. Ha de retornar el seguent resultat

```
SQL> SELECT c.country_name AS "Nom del País",
          COUNT(e.employee_id) AS "Número d'Empleats"
 3 FROM countries c
 4 JOIN locations | ON c.country_id = l.country_id
 5 JOIN departments d ON l.location id = d.location id
 6 LEFT JOIN employees e ON d.department_id = e.department_id
   GROUP BY c.country_name
 8 HAVING COUNT(d.department_id) > 0
 9* ORDER BY c.country_name;
                              Númerod'Empleats
NomdelPaís
Canada
Germany
United Kingdom
United States of America
                                            68
SQL>
```

7 Modifiqueu la consulta anterior per a que tambe apareguin els paisos on no hi ha cap departament

```
SQL> SELECT c.country_name AS "Nom del País",
           COUNT(e.employee_id) AS "Número d'Empleats"
 3 FROM countries c
 4 LEFT JOIN locations | ON c.country_id = l.country_id
 5 LEFT JOIN departments d ON l.location_id = d.location_id
 6 LEFT JOIN employees e ON d.department_id = e.department_id
    GROUP BY c.country_name
 8* ORDER BY c.country_name;
                              Númerod'Empleats
NomdelPaís
Argentina
Australia
Belgium
Brazil
Canada
China
Denmark
Egypt
France
Germany
```

8Feu una consulta que mostri , per cada empleat , el seu nom i cognom (en un a sola columna), la data de caontracte (hire_date)i , en cas de tenir cap el nom i cognom (tambe en una sola columna), nom de departement i ocupacio d'aquest. Aconseguiuque vos surtin 107 registres. L'aspecte del resultat ha de ser el seguent: