```
SQL> SELECT city, COUNT(DISTINCT department_id) AS num_departments
 2 FROM locations
 3 JOIN departments ON locations.location_id = departments.location_id
 4* GROUP BY city;
CITY
                          NUM_DEPARTMENTS
Toronto
                                        1
London
                                        1
Munich
                                         1
Southlake
South San Francisco
                                        1
Seattle
                                       21
0xford
                                        1
7 rows selected.
SQL>
```

2

```
SQL> SELECT city, COUNT(department_id)
 2 FROM locations
3 LEFT JOIN departments ON locations.location_id = departments.location_id
 4* GROUP BY city;
CITY
                           COUNT(DEPARTMENT_ID)
Sao Paulo
Toronto
London
Munich
Sydney
Geneva
Stretford
Southlake
Singapore
Mexico City
                                               0
Hiroshima
                                               0
Bern
Bombay
Utrecht
                                               0
Tokyo
South San Francisco
Beijing
Seattle
South Brunswick
0xford
Roma
Venice
                                               0
Whitehorse
23 rows selected.
SQL>
```

4

```
SELECT d.department_name, c.country_name, COUNT(e.employee_id) AS num_employees, SUM(e.salary) AS total_salary, AVG(e.salary) AS avg_salary
   3 FROM departments d
4 JOIN locations l ON d.location_id = l.location_id
5 JOIN countries c ON l.country_id = c.country_id
6 JOIN employees e ON d.department_id = e.department_id
7 GROUP BY d.department_name, c.country_name
8* ORDER BY c.country_name ASC, AVG(e.salary) DESC;
DEPARTMENT_NAME
                               COUNTRY_NAME
                                                                                 NUM_EMPLOYEES
                                                                                                            TOTAL_SALARY
                                                                                                                                                                                       AVG_SALARY
Marketing
Public Relations
                               Canada
                                                                                                                                                                                                 9500
                                                                                                                        19000
                               United Kingdom
United Kingdom
United States of America
Sales
Human Resources
                                                                                                                                     8955,882352941176470588235294117647058824
                                                                                                                      304500
                                                                                                                        6500
                                                                                                                       58000
                                                                                                                                      Accounting
                                                                                                                       20308
                                                                                                                                                                                               10154
                                                                                                                                     51608
                                                                                                                       28800
4400
                                                                                                                                                                                                 5760
4400
Administration
                               United States of America
United States of America
                                                                                                                      24900
156400
                                                                                                                                     Shipping
11 rows selected.
```

5 6

```
SQL> SELECT c.country_name AS pais, COUNT(e.employee_id) AS numero_dempleats
  2 FROM employees e
    JOIN departments d ON e.department_id = d.department_id
    JOIN locations | ON d.location_id = l.location_id
    JOIN countries c ON l.country_id = c.country_id
  6 GROUP BY c.country_name
  7 HAVING COUNT(e.employee_id) > 0
  8* ORDER BY c.country name;
PAIS
                               NUMERO_DEMPLEATS
                                              2
Canada
                                              1
Germany
United Kingdom
                                             35
United States of America
                                             68
```

```
SQL> SELECT c.country_name AS pais, COUNT(e.employee_id) AS num_employees
  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;
PAIS
                               NUM_EMPLOYEES
Argentina
                                           0
Australia
                                           0
Belgium
                                           0
Brazil
                                           0
Canada
                                           2
China
                                           0
Denmark
                                           0
Egypt
                                           0
France
                                           0
Germany
India
                                           0
Israel
                                           0
Italy
                                           0
Japan
                                           0
Kuwait
                                           0
Malaysia
                                           0
Mexico
                                           0
Netherlands
                                           0
Nigeria
                                           0
Singapore
                                           0
Switzerland
                                           0
United Kingdom
                                          35
United States of America
                                          68
Zambia
                                           0
```

8

9

10