## 1 FEU UNA CONSULTA QUE MOSTRI EL NOM D'AQUELLES CIUTATS (LOCATION.CITY) ON HI HA ALGUN DEPARTAMENT, I A CONTINUACIO EL NUMERO DE DEPARTAMENTS EXISTENTS A LA MATEIXA

SELECT location\_id, COUNT(department\_id) AS num\_departaments FROM departments GROUP BY location\_id;

<pre>SQL&gt; SQL&gt; SELECT location_id, COUNT(departments     3* GROUP BY location_id;</pre>		ment_id) AS num_departaments (Location city) on hi ha algun de De Departaments existents a La
LOCATION_ID  1700 1400 2400 1500 1800 2500	NUM_DEPARTAMENTS  21  1  1  1  1	SELECT location_id, COUNT(department) FROM departments GROUP BY location_id;
2700 7 rows selected. SQL>	1	2 Modifiqueu l'anterior consulta per a c departement.  SELECT I.city AS "Ciutat", COUNT(d department, id) AS "Namb

## 2 Modifiqueu l'anterior consulta per a que mostri tambe les ciutats on no hi ha cap departement.

SELECT I.location\_id, COUNT(d.department\_id) AS num\_departaments FROM locations I

LEFT JOIN departments d ON I.location\_id = d.location\_id

GROUP BY I.location\_id;

```
FROM locations l
3 LEFT JOIN departments d ON l.location_id = d.location_id
4* GROUP BY l.location_id;
 LOCATION_ID
                NUM_DEPARTAMENTS
        2200
                                0
        2300
                                0
        1400
        1700
                               21
        1000
        1600
        2600
                                0
        2900
        3100
        1500
        2400
        3200
        1800
        2500
        2800
                                0
        2700
        1100
```

## 3 Modifiqueu la primera consulta per a que nomes mostri la informacio de les ciutats que tenen mes d'un departament.

```
SELECT I.location_id, COUNT(d.department_id) AS num_departaments FROM locations I

LEFT JOIN departments d ON I.location_id = d.location_id

GROUP BY I.location_id

HAVING COUNT(d.department_id) > 1;
```

4 Feu una consulta que , per cada departament , que mostri el nom departament , pais en el que es troba (COUNTRIES.CONTRY\_NAME), numerio d'emplets , la suma i la mitja dels seus salaris. Ordeneu el resultat ascendentment pel nom del pais i descendenment per la mitja dels salaris

```
SELECT

d.department_name AS nom_departament,
I.city AS ciutat,
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
LEFT JOIN employees e ON d.department_id = e.department_id
GROUP BY d.department_name, l.city
```

ORDER BY I.city ASC, AVG(e.salary) DESC;

5 SUM(e.salar 6 AVG(e.salar 7 FROM department 8 JOIN locations	y) AS suma_sal y) AS mitjana_ s d l ON d.location yees e ON d.dep rtment_name, l	salaris n_id = l.location_id partment_id = e.depar .city	tment_id	mitja dels salaris
NOM_DEPARTAMENT	CIUTAT	NUMERO_EMPLEATS	SUMA_SALARIS	MITJANA_SALARIS
	London		 6500	6500
ublic Relations	Munich		10000	10000
ales	0xford	34	304500	8955,882352941176470588235294117647058824
ecruiting	Seattle			
ayroll	Seattle			
enefits	Seattle			
OC ètode vectorDigits en C++	Seattle			
T Support	Seattle			
etail Sales	Seattle			
T Helpdesk	Seattle			
anufacturing	Seattle			
reasury	Seattle			
Zope Object Database Explica	ıda			FROM departments d

5 Modifiqueu la consulta anterir per a que tabe mostri el numero d'empleats , suma i mitja de salaris d'aquells emleats que no pertanyen a cap departament.

## **SELECT**

```
'Sense departament' AS nom_departament,
'Sense país' AS nom_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 2 ASC, 5 DESC;
```

```
SOL> SELECT
         'Sense departament' AS nom_departament,
         'Sense país' AS nom_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'
NOM_DEPARTAMENT
                      NOM_PAIS
                                         NUMERO_EMPLEATS
                                                             SUMA_SALARIS
                                                                               MITJANA_SALARIS
                                                                      7000
                                                                                           7000
Sense departament
                      Sense país
```