



**Universidad Autónoma de Querétaro**  
**Facultad de Informática**  
**Administración de Bases de Datos**



### Actividad #3

Resuelva los siguientes ejercicios sobre la base de datos de HR de Oracle. Incluya, para cada ejercicio, la consulta SQL y la captura de pantalla del resultado. Realice uniones entre tablas donde corresponda.

1. ID de departamento y nombre de los empleados que laboran en cada uno. Ordene el resultado por ID de departamento.

Worksheet

Query Builder

SELECT department\_id,department\_name

FROM DEPARTMENTS

ORDER BY department\_id;

Query Result

x

SQL | All Rows Fetched: 27 in 0.009 seconds

	DEPARTMEN...	DEPARTMENT_NAME
1	10	Administration
2	20	Marketing
3	30	Purchasing
4	40	Human Resources
5	50	Shipping
6	60	IT
7	70	Public Relations

2. Nombre de departamento y total de empleados que laboran en él, para todos los departamentos. Ordene el resultado por nombre de departamento.





```
SELECT d.department_name, COUNT(e.last_name)
FROM employees e, departments d
WHERE e.department_id = d.department_id
GROUP BY d.department_name
ORDER BY d.department_name;
```

3. Cantidad de empleados cuyo apellido contenga una 'x', o cuyo código de cargo inicie con el texto 'SA'.

Worksheet | Query Builder

```
SELECT count(*) AS conteo
FROM EMPLOYEES
WHERE last_name LIKE '%x%' OR job_id
```

Query Result x

    SQL | All Rows Fetched: 1 in 0.073 sec

	CONT...
1	35

5. Salario promedio de los empleados por departamento. Ordene el resultado de manera descendente.

```
--5
SELECT department_id, TRUNC(AVG(salary), 2)
FROM employees
GROUP BY department_id
ORDER BY AVG(salary) DESC;

--6
```

SQL | All Rows Fetched: 12 in 0.083 seconds

	DEPARTMEN...	TRUNC(AVG(SALARY),2)
1	90	19333.33
2	110	10154
3	70	10000

6. Departamentos cuyo salario promedio sea mayor que \$10,000.



```

SELECT d.department_name, MIN(e.salary), MAX(e.salary)
FROM employees e, departments d
WHERE e.department_id = d.department_id
GROUP BY d.department_name;

```

-- 8

SQL | All Rows Fetched: 11 in 0.044 seconds

	DEPARTMENT_N...	MIN(E.SALARY)	MAX(E.SALARY)
1	Administration	4400	4400
2	Accounting	8300	12008
3	Purchasing	2500	11000
4	Human Resources	6500	6500
5	IT	4200	9000
6	Public Relations	10000	10000
7	Finance	17000	24000

8. Nombre de los departamentos ubicados en la ciudad Toronto.

```
-- 8
SELECT d.department_name
FROM departments d, locations loc
WHERE d.location_id = loc.location_id
AND loc.city = 'Toronto';
```


SQL | All Rows Fetched: 1 in 0.003 seconds

	DEPARTMENT_N...
1	Marketing

9. Nombre completo de los empleados que trabajen en departamentos ubicados en Estados Unidos.



```
SELECT first_name || ' ' || last_name,  
       c.country_name  
FROM   employees e, departments d,  
       locations loc, countries c  
WHERE  e.department_id = d.department_id  
AND    d.location_id = loc.location_id  
AND    loc.country_id = c.country_id  
AND    c.country_name = 'United States of America'
```

 SQL | Fetched 50 rows in 0.005 seconds

	FIRST_NAME  " "  LAST_N...	COUNTRY_NAME
1	Alexander Hunold	United States of America
2	Bruce Ernst	United States of America
3	David Austin	United States of America
4	Valli Pataballa	United States of America
5	Diana Lorentz	United States of America
6	Matthew Weiss	United States of America