



### 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

	DEPARTMENT_ID	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

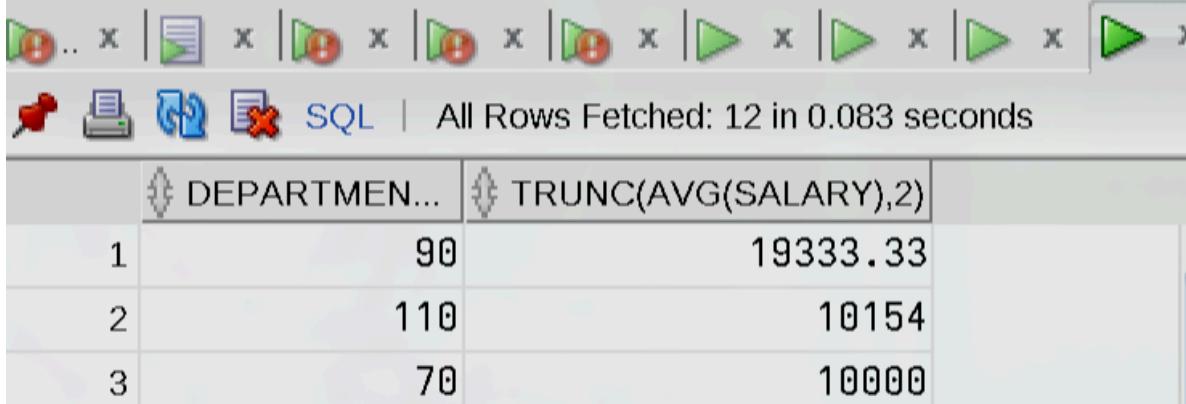
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	CONT...
1	35

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
```



The screenshot shows the Oracle SQL Developer interface. At the top, there is a toolbar with various icons. Below the toolbar is a status bar displaying "SQL | All Rows Fetched: 12 in 0.083 seconds". The main area is a results grid with three columns: "DEPARTMEN...", "TRUNC(AVG(SALARY),2)", and an empty column. The data rows are:

	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.

#### 7. Salario mínimo y máximo por departamento.

```
④ SELECT d.department_name, MIN(e.salary), MAX(  
    FROM employees e, departments d  
    WHERE e.department_id = d.department_id  
    GROUP BY d.department_name;
```

-- 8

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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 Sales	13000	21000

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';
```

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