



Instituto Politécnico Nacional  
Escuela Superior de Ingeniería Mecánica y  
Eléctrica  
Unidad Culhuacán



Unidad Culhuacán

## Base de Datos

Ingeniería en Computación

Práctica Número: 5

Nombre de la Práctica:  
CONSULTAS RENTA 2

Nombre de la Base de Datos:  
Sistema de gestión escolar para CELEX del CECyT3

Primer Departamental

Grupo: 7CM23

Integrantes:

Avilés Martínez Mariana

Garduño Pineda Alan

Hernández Hernández Abril

Valdivia Sánchez Ángel

Docente: Carlos Cortés Bazán

Fecha de Entrega: 09/05/2021

En estas consultas se usa la cláusula ON por que las columnas que se comparan no son iguales, pero al ser diferentes no se antepone en nombre de la tabla

## 1. RENTAS POR EMPLEADO.

Hoja de Trabajo | Generador de Consultas

```
SELECT COUNT(RTL_ID) AS RENTAS, STF_FIRST_NAME, STF_LAST_NAME FROM STAFF
JOIN RENTAL ON RTL_STF_ID = STF_ID
GROUP BY STF_FIRST_NAME, STF_LAST_NAME;

SELECT COUNT(RTL_ID) AS RENTAS, (EXTRACT(MONTH FROM RTL_DATE)) AS MES FROM RENTAL
WHERE EXTRACT(YEAR FROM RTL_DATE) = 2016
GROUP BY (EXTRACT(MONTH FROM RTL_DATE)) ORDER BY MES;

SELECT (COUNT(RTL_ID)) AS T, CAT_NAME AS NOMBRE_CATEGORIA FROM FILM
JOIN CATEGORY ON CAT_ID = FILM_CAT_ID
JOIN RENTAL_DETAIL ON DTL_FILM_ID = FILM_ID
JOIN RENTAL ON RTL_ID = DTL_RTL_ID
WHERE EXTRACT(MONTH FROM RTL_DATE) = 3
GROUP BY CAT_NAME ORDER BY T DESC FETCH FIRST 1 ROWS ONLY;

SELECT (COUNT(RTL_ID)), STF_NAME FROM FILM
JOIN CATEGORY ON CAT_ID = FILM_CAT_ID
JOIN RENTAL_DETAIL ON DTL_FILM_ID = FILM_ID
```

Resultado de la Consulta

Todas las Filas Recuperadas: 11 en 0.379 segundos

	RENTAS	STF_FIRST_NAME	STF_LAST_NAME
1	11	Juán	Perez
2	8	Brenda	Avila
3	10	Ramón	Juárez
4	6	Zuri	Soto
5	10	Pamela	Velasquez
6	7	Laura	Ramos
7	6	Gabriela	Garcia
8	7	Roberto	Ruiz
9	10	Guadalupe	Barrales
10	5	Edwin	Romero
11	5	Isaco	Torres

## 2. MOSTRAR LA CANTIDAD DE RENTAS POR MES EN UN AÑO DETERMINADO.

Hoja de Trabajo | Generador de Consultas

```
SELECT COUNT(RTL_ID) AS RENTAS, STF_FIRST_NAME, STF_LAST_NAME FROM STAFF
JOIN RENTAL ON RTL_STF_ID = STF_ID
GROUP BY STF_FIRST_NAME, STF_LAST_NAME;

SELECT COUNT(RTL_ID) AS RENTAS, (EXTRACT(MONTH FROM RTL_DATE)) AS MES FROM RENTAL
WHERE EXTRACT(YEAR FROM RTL_DATE) = 2016
GROUP BY (EXTRACT(MONTH FROM RTL_DATE)) ORDER BY MES;

SELECT (COUNT(RTL_ID)) AS T, CAT_NAME AS NOMBRE_CATEGORIA FROM FILM
JOIN CATEGORY ON CAT_ID = FILM_CAT_ID
JOIN RENTAL_DETAIL ON DTL_FILM_ID = FILM_ID
JOIN RENTAL ON RTL_ID = DTL_RTL_ID
WHERE EXTRACT(MONTH FROM RTL_DATE) = 3
GROUP BY CAT_NAME ORDER BY T DESC FETCH FIRST 1 ROWS ONLY;

SELECT (COUNT(RTL_ID)), STF_NAME FROM FILM
JOIN CATEGORY ON CAT_ID = FILM_CAT_ID
JOIN RENTAL_DETAIL ON DTL_FILM_ID = FILM_ID
```

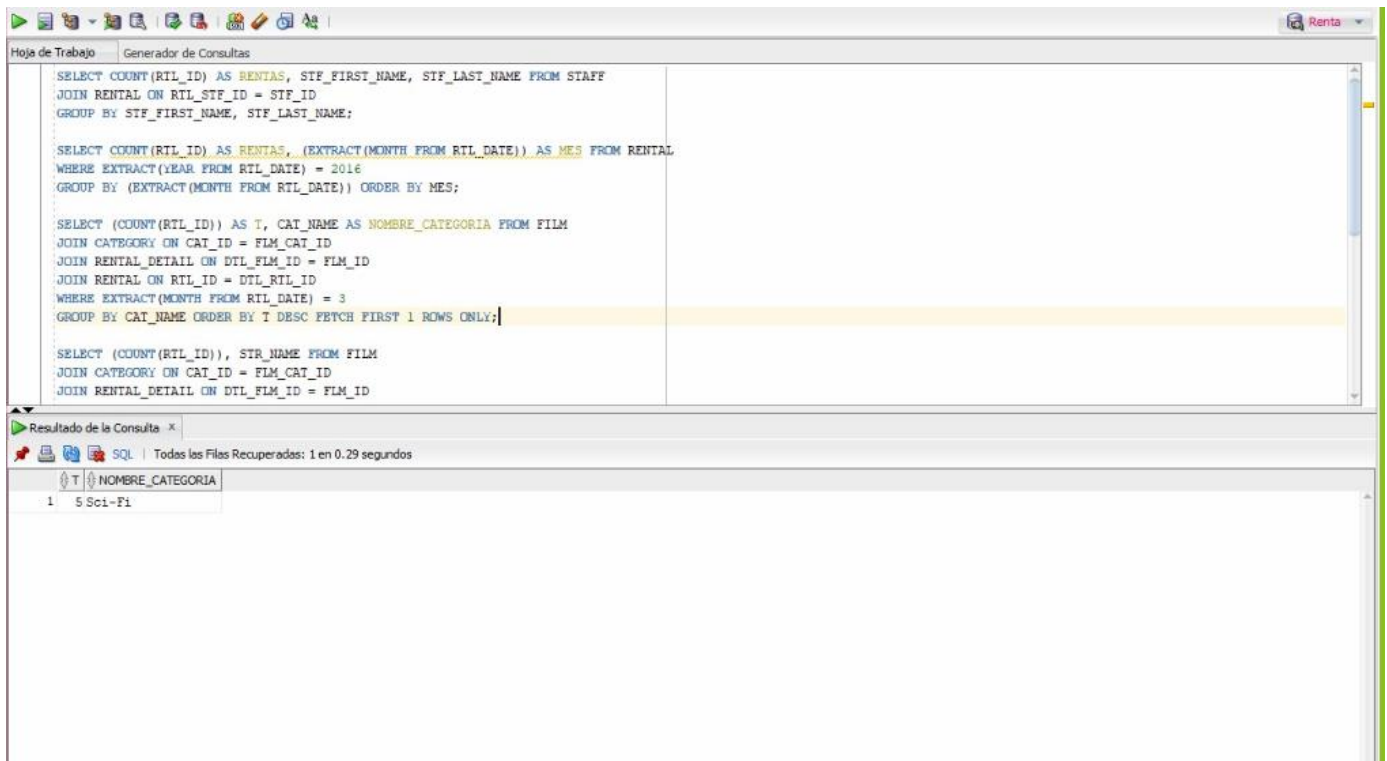
Resultado de la Consulta

Todas las Filas Recuperadas: 12 en 0.134 segundos

	RENTAS	MES
1	9	1
2	3	2
3	3	3
4	2	4
5	2	5
6	2	6
7	4	7
8	2	8
9	3	9
10	9	10
11	3	11
12	4	12

Fecha de Entrega: 09/05/2021

### 3. ¿QUÉ CATEGORÍA DE PELÍCULA SE RENTA MÁS EN UN MES DETERMINADO?



The screenshot shows the SQL Developer interface with a query in the 'Hoja de Trabajo' (Worksheet) tab. The query is as follows:

```
SELECT COUNT(RTL_ID) AS RENTAS, STF_FIRST_NAME, STF_LAST_NAME FROM STAFF
JOIN RENTAL ON RIL_STF_ID = STF_ID
GROUP BY STF_FIRST_NAME, STF_LAST_NAME;

SELECT COUNT(RTL_ID) AS RENTAS, (EXTRACT(MONTH FROM RTL_DATE)) AS MES FROM RENTAL
WHERE EXTRACT(YEAR FROM RTL_DATE) = 2016
GROUP BY (EXTRACT(MONTH FROM RTL_DATE)) ORDER BY MES;

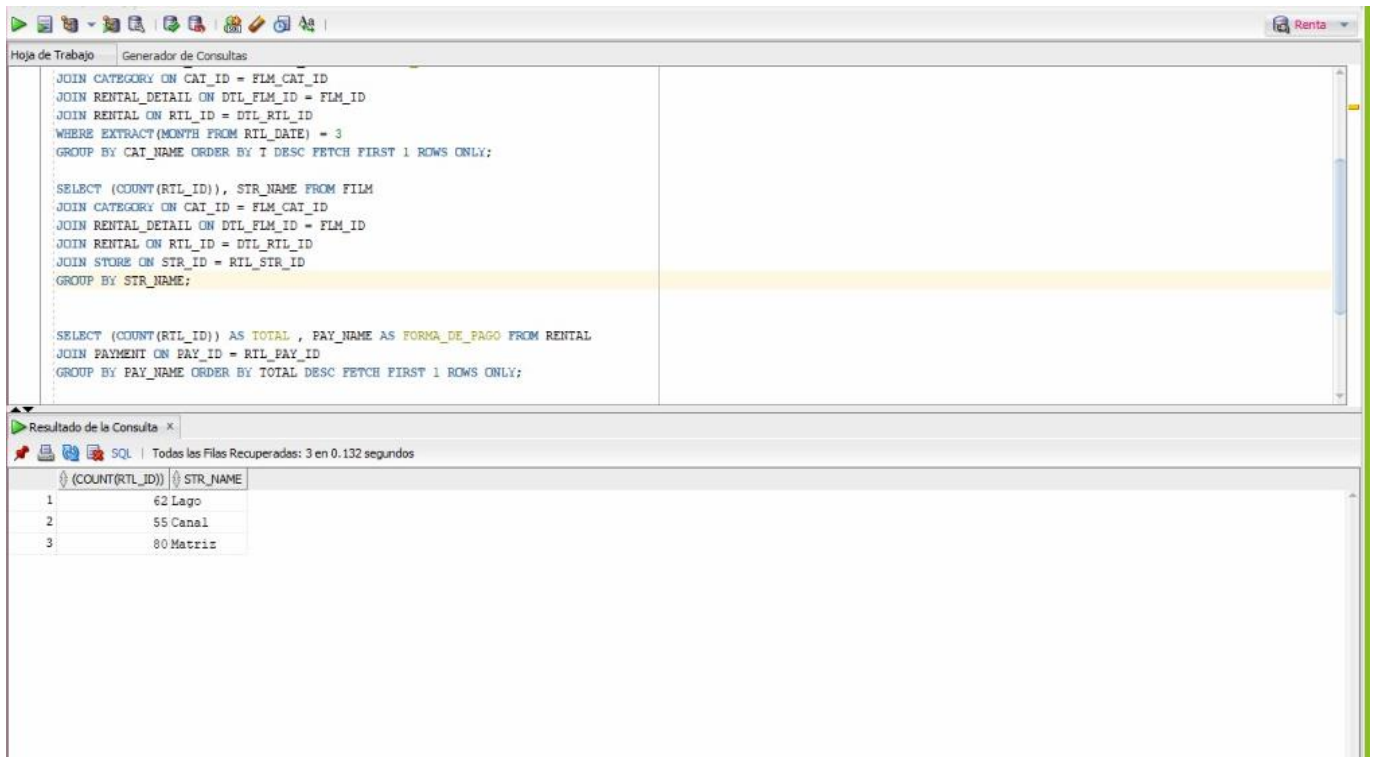
SELECT (COUNT(RTL_ID)) AS T, CAT_NAME AS NOMBRE_CATEGORIA FROM FILM
JOIN CATEGORY ON CAT_ID = FLM_CAT_ID
JOIN RENTAL_DETAIL ON DTL_FLM_ID = FLM_ID
JOIN RENTAL ON RIL_ID = DTL_RTL_ID
WHERE EXTRACT(MONTH FROM RTL_DATE) = 3
GROUP BY CAT_NAME ORDER BY T DESC FETCH FIRST 1 ROWS ONLY;

SELECT (COUNT(RTL_ID)), STR_NAME FROM FILM
JOIN CATEGORY ON CAT_ID = FLM_CAT_ID
JOIN RENTAL_DETAIL ON DTL_FLM_ID = FLM_ID
```

The 'Resultado de la Consulta' (Query Result) tab shows the following data:

	NOMBRE_CATEGORIA
1	5 Sci-Fi

### 4. MOSTRAR LA CANTIDAD DE RENTAS POR TIENDA.



The screenshot shows the SQL Developer interface with a query in the 'Hoja de Trabajo' (Worksheet) tab. The query is as follows:

```
JOIN CATEGORY ON CAT_ID = FLM_CAT_ID
JOIN RENTAL_DETAIL ON DTL_FLM_ID = FLM_ID
JOIN RENTAL ON RIL_ID = DTL_RTL_ID
WHERE EXTRACT(MONTH FROM RTL_DATE) = 3
GROUP BY CAT_NAME ORDER BY T DESC FETCH FIRST 1 ROWS ONLY;

SELECT (COUNT(RTL_ID)), STR_NAME FROM FILM
JOIN CATEGORY ON CAT_ID = FLM_CAT_ID
JOIN RENTAL_DETAIL ON DTL_FLM_ID = FLM_ID
JOIN RENTAL ON RIL_ID = DTL_RTL_ID
JOIN STORE ON STR_ID = RIL_STR_ID
GROUP BY STR_NAME;

SELECT (COUNT(RTL_ID)) AS TOTAL, PAY_NAME AS FORMA_DE_PAGO FROM RENTAL
JOIN PAYMENT ON PAY_ID = RIL_PAY_ID
GROUP BY PAY_NAME ORDER BY TOTAL DESC FETCH FIRST 1 ROWS ONLY;
```

The 'Resultado de la Consulta' (Query Result) tab shows the following data:

	(COUNT(RTL_ID))	STR_NAME
1	62	Lago
2	55	Canal
3	80	Matriz

## 5. ¿CUÁL ES EL TIPO DE PAGO MÁS USADO?

The screenshot shows the SQL Developer interface with a query in the 'Hoja de Trabajo' (Worksheet) tab. The query is as follows:

```
SELECT (COUNT(RTL_ID)), STR_NAME FROM FILM
JOIN CATEGORY ON CAT_ID = FILM_CAT_ID
JOIN RENTAL_DETAIL ON DTL_FILM_ID = FILM_ID
JOIN RENTAL ON RTL_ID = DTL_RTL_ID
JOIN STORE ON STR_ID = RTL_STR_ID
GROUP BY STR_NAME;

SELECT (COUNT(RTL_ID)) AS TOTAL, PAY_NAME AS FORMA_DE_PAGO FROM RENTAL
JOIN PAYMENT ON PAY_ID = RTL_PAY_ID
GROUP BY PAY_NAME ORDER BY TOTAL DESC FETCH FIRST 1 ROWS ONLY;

SELECT RTL_ID, RTL_DATE, RTL_RETURN_DATE FROM RENTAL
WHERE (RTL_RETURN_DATE - RTL_DATE) > 3;
```

The 'Resultado de la Consulta' (Query Result) tab shows the following result:

TOTAL	FORMA_DE_PAGO
1	36 Efectivo

## 6. MOSTRAR LAS RENTAS QUE HA SUPERADO LA FECHA DE ENTREGA (3 DÍAS)

The screenshot shows the SQL Developer interface with a query in the 'Hoja de Trabajo' (Worksheet) tab. The query is as follows:

```
SELECT (COUNT(RTL_ID)), STR_NAME FROM FILM
JOIN CATEGORY ON CAT_ID = FILM_CAT_ID
JOIN RENTAL_DETAIL ON DTL_FILM_ID = FILM_ID
JOIN RENTAL ON RTL_ID = DTL_RTL_ID
JOIN STORE ON STR_ID = RTL_STR_ID
GROUP BY STR_NAME;

SELECT (COUNT(RTL_ID)) AS TOTAL, PAY_NAME AS FORMA_DE_PAGO FROM RENTAL
JOIN PAYMENT ON PAY_ID = RTL_PAY_ID
GROUP BY PAY_NAME ORDER BY TOTAL DESC FETCH FIRST 1 ROWS ONLY;

SELECT RTL_ID, RTL_DATE, RTL_RETURN_DATE FROM RENTAL
WHERE (RTL_RETURN_DATE - RTL_DATE) > 3;
```

The 'Resultado de la Consulta' (Query Result) tab shows the following results:

RTL_ID	RTL_DATE	RTL_RETURN_DATE
1	21/06/16	29/06/16
2	04/02/16	17/02/16
3	04/10/16	27/10/16
4	07/01/16	18/01/16
5	16/07/16	20/07/16
6	27/02/17	03/03/17