Instituto Politécnico Nacional
Escuela Superior de Ingeniería Mecánica y Eléctrica
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

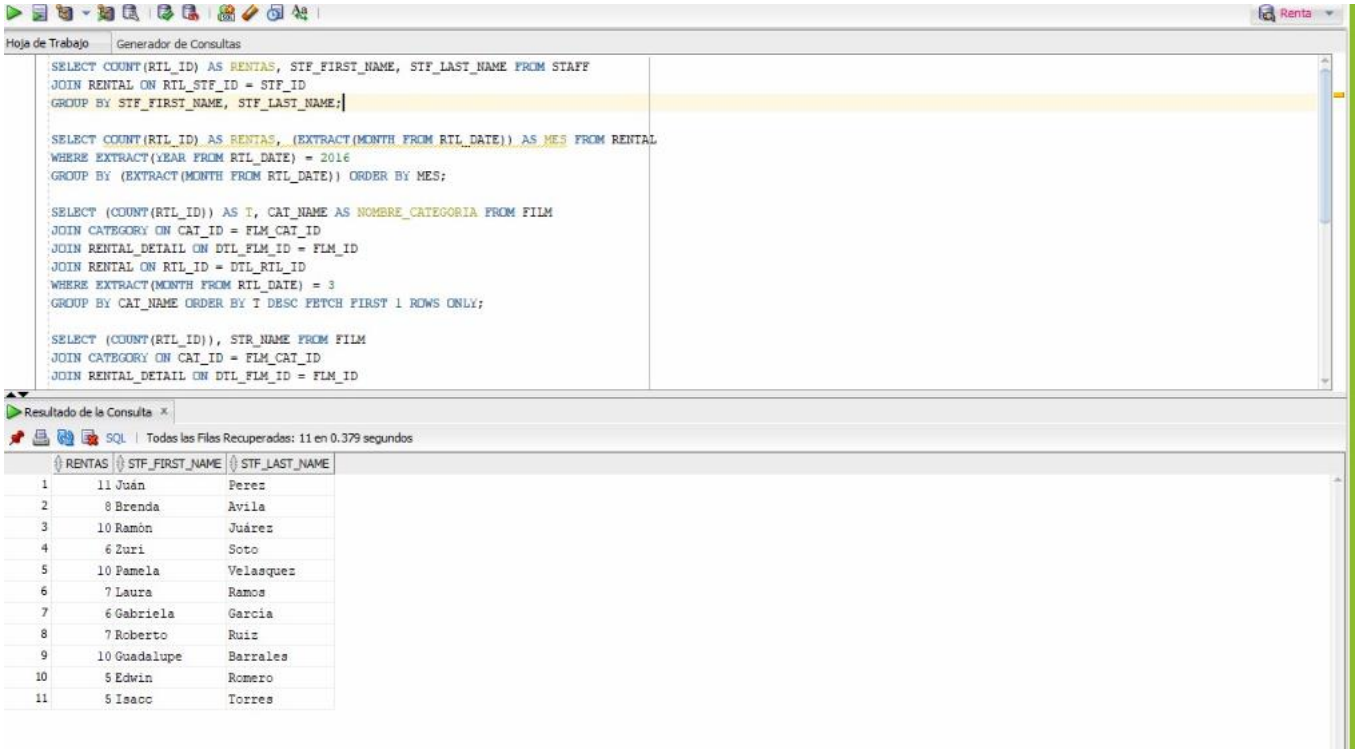
Integrantes:
Avilés Martínez Mariana
Garduño Pineda Alan
Hernández Hernández Abril
Valdivia Sánchez Ángel

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.**

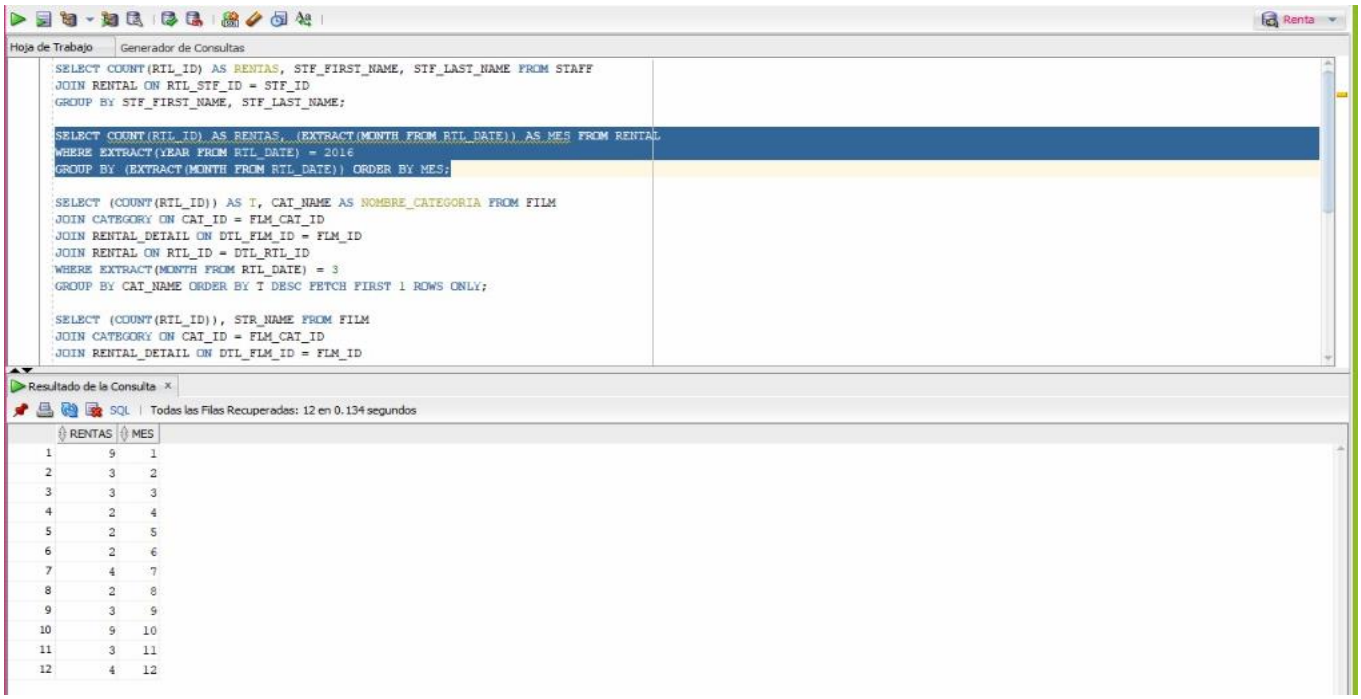


```
SELECT COUNT(RTL_ID) AS RENTAS, STF_FIRST_NAME, STF_LAST_NAME FROM STAFF
JOIN RENTAL ON RTL_STF_ID = STF_ID
GROUP BY STF_FIRST_NAME, STF_LAST_NAME;

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 = FLM_CAT_ID
JOIN RENTAL_DETAIL ON DTL_FLM_ID = FLM_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)), STR_NAME FROM FILM
JOIN CATEGORY ON CAT_ID = FLM_CAT_ID
JOIN RENTAL_DETAIL ON DTL_FLM_ID = FLM_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 | Isacc | Torres |

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



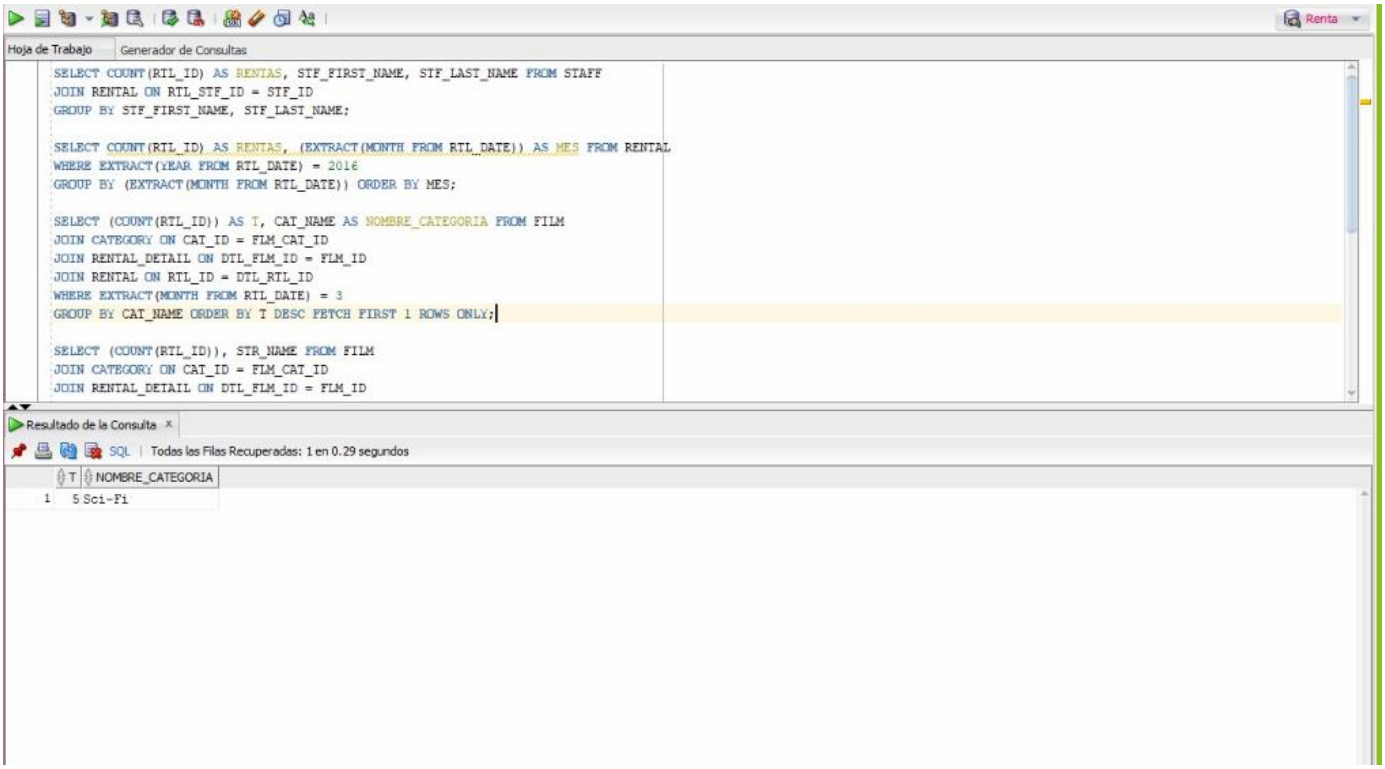
```
SELECT COUNT(RTL_ID) AS RENTAS, STF_FIRST_NAME, STF_LAST_NAME FROM STAFF
JOIN RENTAL ON RTL_STF_ID = STF_ID
GROUP BY STF_FIRST_NAME, STF_LAST_NAME;

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 = FLM_CAT_ID
JOIN RENTAL_DETAIL ON DTL_FLM_ID = FLM_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)), STR_NAME FROM FILM
JOIN CATEGORY ON CAT_ID = FLM_CAT_ID
JOIN RENTAL_DETAIL ON DTL_FLM_ID = FLM_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?



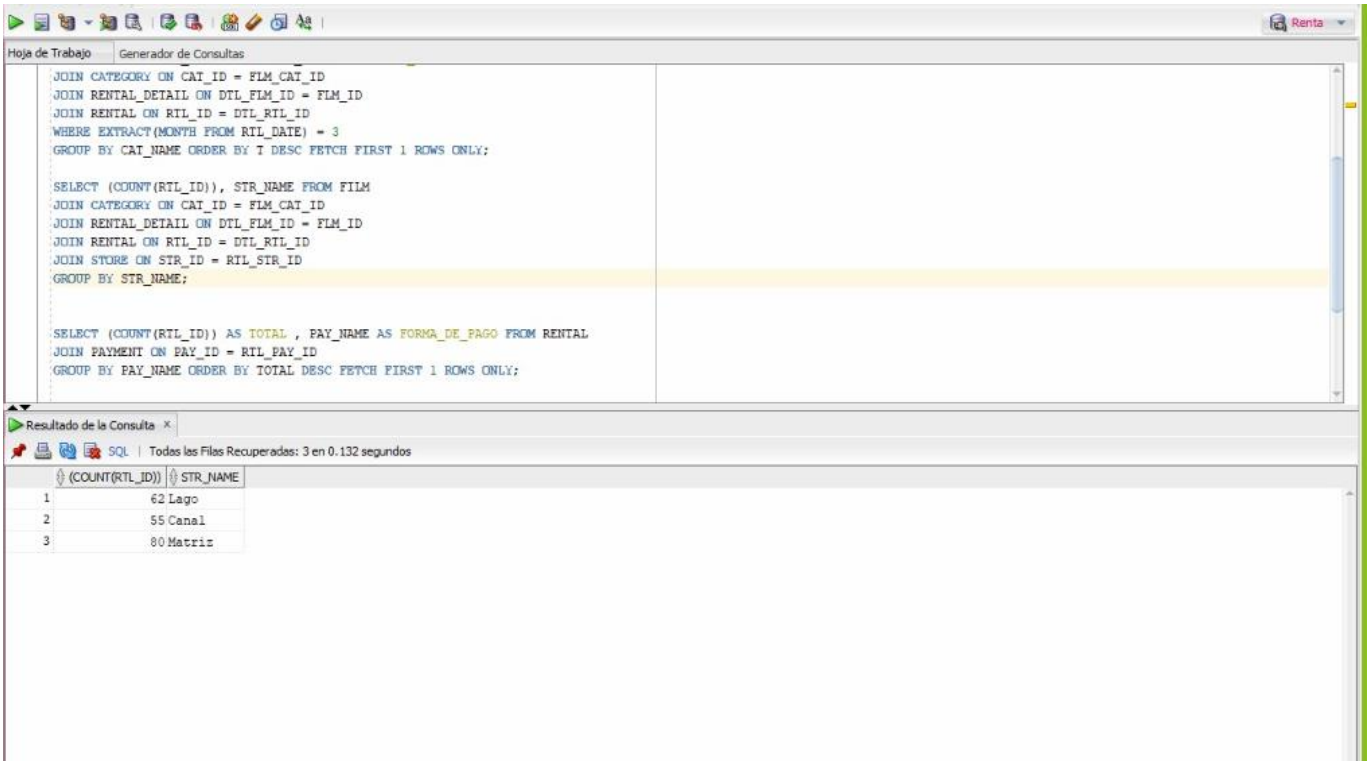
```
SELECT COUNT(RTL_ID) AS RENTAS, STF_FIRST_NAME, STF_LAST_NAME FROM STAFF
JOIN RENTAL ON RTL_STF_ID = STF_ID
GROUP BY STF_FIRST_NAME, STF_LAST_NAME;

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 = FLM_CAT_ID
JOIN RENTAL_DETAIL ON DTL_FLM_ID = FLM_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)), STR_NAME FROM FILM
JOIN CATEGORY ON CAT_ID = FLM_CAT_ID
JOIN RENTAL_DETAIL ON DTL_FLM_ID = FLM_ID
```

Resultado de la Consulta

Todas las Filas Recuperadas: 1 en 0.29 segundos

| | T | NOMBRE_CATEGORIA |
|---|---|---|
| 1 | 5 | Sci-Fi |

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



```
JOIN CATEGORY ON CAT_ID = FLM_CAT_ID
JOIN RENTAL_DETAIL ON DTL_FLM_ID = FLM_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)), STR_NAME FROM FILM
JOIN CATEGORY ON CAT_ID = FLM_CAT_ID
JOIN RENTAL_DETAIL ON DTL_FLM_ID = FLM_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;
```

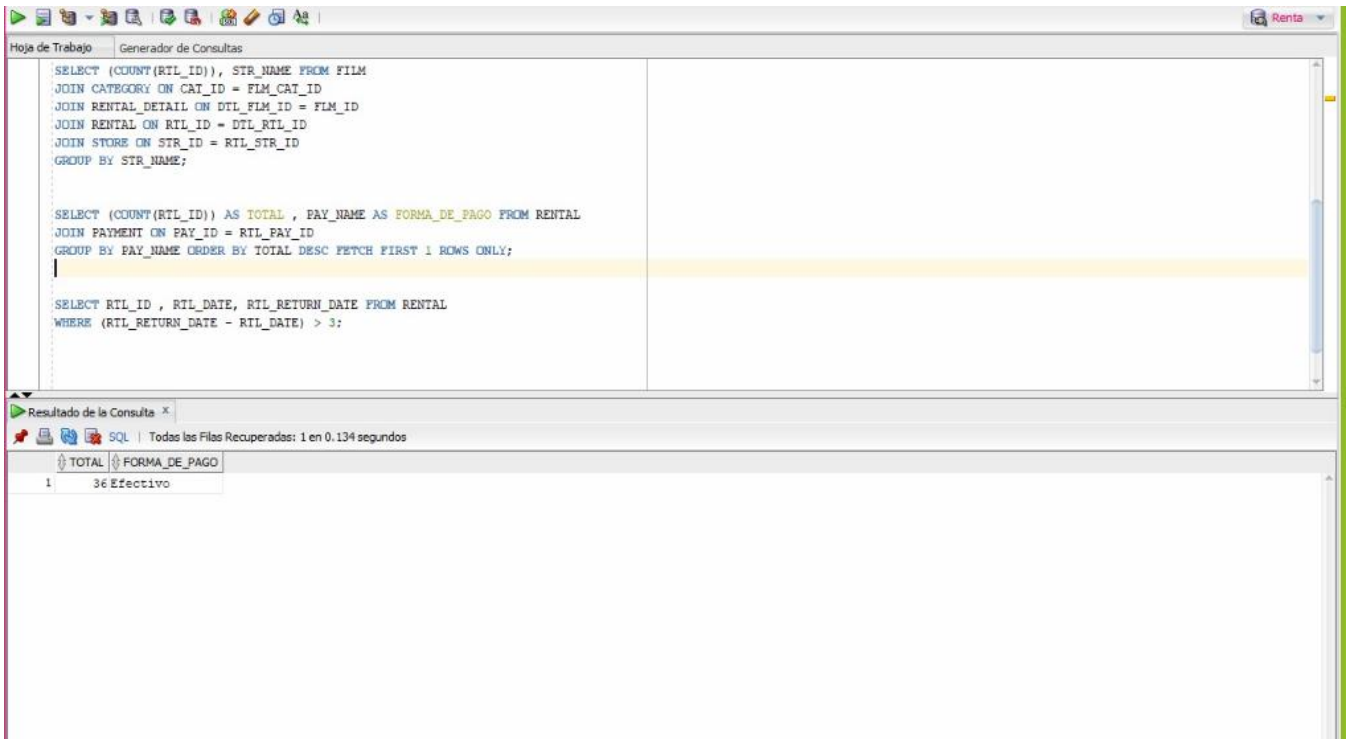
Resultado de la Consulta

Todas las Filas Recuperadas: 3 en 0.132 segundos

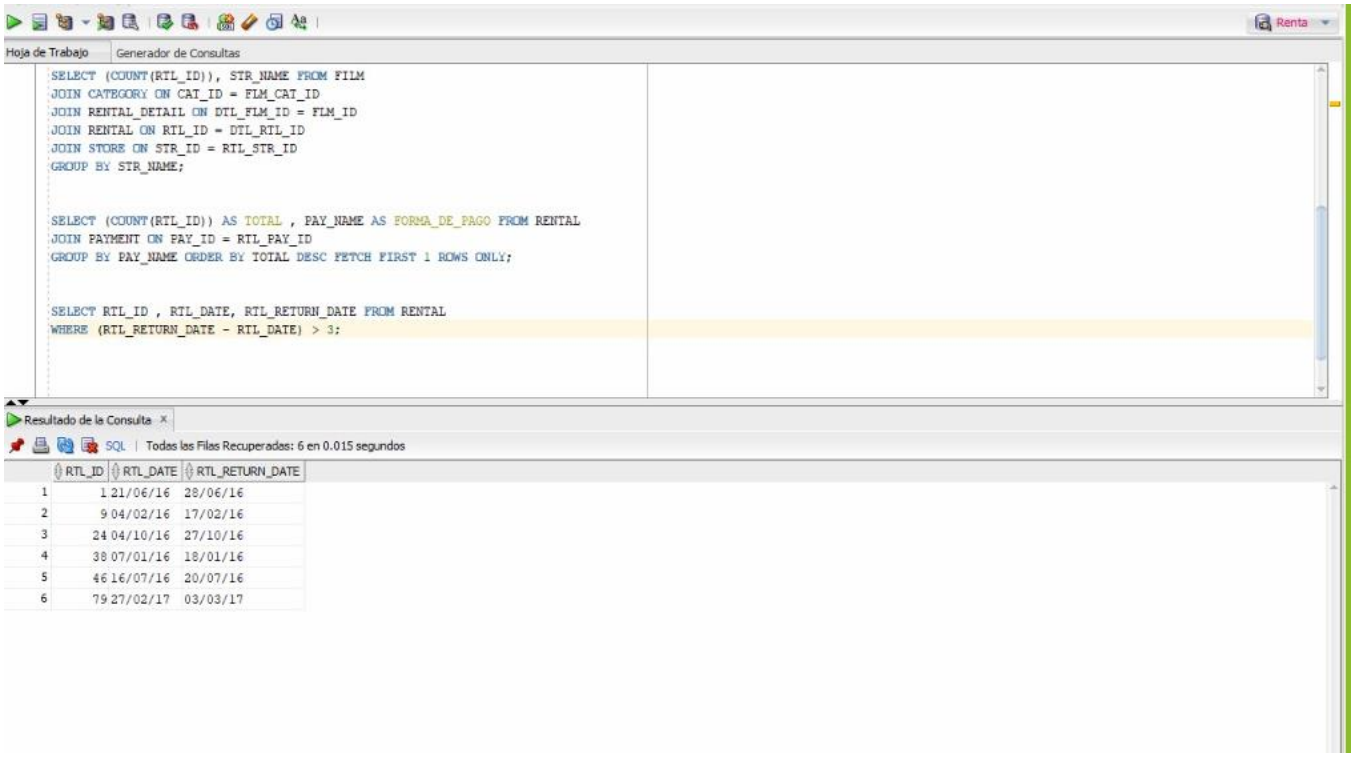
| | (COUNT(RTL_ID)) | STR_NAME |
|---|---|---|
| 1 | 62 | Lago |
| 2 | 55 | Canal |
| 3 | 80 | Matriz |

Fecha de Entrega: 09/05/2021

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




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




Fecha de Entrega: 09/05/2021