

Basic SQL queries

```
SELECT rental_duration AS "rented for (in days)", COUNT(*) AS "number of films"

FROM film

GROUP BY 1

ORDER BY 2
```

Basic SQL queries

```
SELECT film_id,

title

FROM film
```

check the result

<https://drive.google.com/file/d/1IH7oYScP49Qlp8dLoMpEOqwd6oK9V4Kg/view?usp=sharing>

Basic SQL queries

```
SELECT title,

release_year,

rental_rate

FROM film

ORDER BY title,

release_year,

rental_rate DESC
```

check the result

https://drive.google.com/file/d/105SnB7rCwEudOttbFaOoaZRq_rCudtiK/view?usp=sharing

Bit more advanced queries

```
SELECT film_id,

title,

description

FROM film

WHERE length > 120

AND rental_rate > 2.99
```

check the result

https://drive.google.com/file/d/1Gzd7TxxZ_F3CQQOxMhxt0ld6KqmGwoSk/view?usp=sharing

Bit more advanced queries

```
SELECT rating
COUNT(film_id) AS count_of_movies,
AVG(rental_rate) AS average_rental_rate,
MIN(rental_duration) AS min_rental_duration,
MAX(rental_duration) AS max_rental_duration
FROM film
WHERE rating='PG' OR rating='G'
GROUP BY rating
```

check the result

[https://drive.google.com/file/d/1SqFsP3yH_6nPhU7nIKJtWkLDNcYmxGNV/view?usp=sharing]

SQL Joins

```
SELECT D.country,
COUNT(customer_id) AS customer_count
FROM customer A
INNER JOIN address B ON A.address_id=B.address_id
INNER JOIN city C ON B.city_id= C.city_id
INNER JOIN country D ON C.country_id= D.country_id
GROUP BY country
ORDER BY COUNT(customer_id) DESC
LIMIT 10
```

check the result

https://drive.google.com/file/d/1iUiYlMvUQunLres_ZqhUXidYBBrlHxX/view?usp=sharing

Bit more advanced Joins

```
SELECT country.country,
COUNT (DISTINCT customer.customer_id) AS all_customer_count,
COUNT (DISTINCT country.country) AS top_costumer_count
```

```
FROM
(SELECT
A.customer_ID,
B.first_name,
B.last_name,
D.city,
E.country,
SUM (amount) AS total_amount_paid
FROM payment A
INNER JOIN customer B ON A.customer_id = B.customer_id
INNER JOIN address C ON B.address_id = C.address_id
INNER JOIN city D ON C.city_id = D.city_id
INNER JOIN country E ON D.country_id = E.country_id
WHERE E.country IN
('India',
'China',
'United States',
'Japan',
'Mexico',
'Brazil',
'Russian Federation',
'Philippines',
'Turkey',
'Indonesia'
)
AND D.city in
(
'Aurora',
'Atlixco',
'Xintai',
'Adoni',
```

'Dhule (Dhulia)',

'Kurashiki',

'Pingxiang',

'Sivas',

'Celaya',

'So Leopoldo'

)

GROUP BY

A.customer_ID,

B.first_name,

B.last_name,

D.city,

E.country

ORDER BY total_amount_paid DESC

LIMIT 5) AS top_S_customers

LEFT JOIN custompr ON customer.customer_id = customer.customer_id

LEFT JOIN address ON customer.address_id = address.address_id

LEFT JOIN city ON address.city_id = city.city_id

LEFT JOIN country ON city.country_id = country.country_id

GROUP BY country.country

ORDER BY COUNT (country.country) DESC

check the result

https://drive.google.com/file/d/1uLrcFcDYGOMquMMm6uog5sln9_noq3k8/view?usp=sharing