



## 2.02 Labs | SQL Queries 3 + 4

📅 Completed Date	@Oct 27, 2020
☰ Description	A few more challenges on the same dataset.
▼ Module	Unit 2
▼ Status	Complete
☰ Type	Lab

### Lab 3

#### Instructions

→ How many distinct (different) actors' last names are there?

→ 121

```
select COUNT(distinct last_name) as 'unique names' from actor
```

→ In how many different languages where the films originally produced? (Use the column `language_id` from the `film` table)

→ 1

```
select COUNT(distinct language_ID) as 'original languages' from film
```

→ How many movies were released with "PG-13" rating?

→ 223

```
select COUNT(rating) from film  
where rating = 'PG-13'
```

→ **Get 10 the longest movies from 2006.**

```
select film_ID, title, length from film
where release_year = 2006
Order by length DESC
Limit 10;
```

film_ID	title	length
212	DARN FORRESTER	185
690	POND SEATTLE	185
141	CHICAGO NORTH	185
609	MUSCLE BRIGHT	185
991	WORST BANGER	185
349	GANGS PRIDE	185
817	SOLDIERS EVOLUTION	185
426	HOME PITY	185
872	SWEET BROTHERHOOD	185
182	CONTROL ANTHEM	185

→ **How many days has been the company operating (check `DATEDIFF()` function)?**

→ 266

```
select ABS(DATEDIFF(min(rental_date), max(rental_date))) as days_copmany_operation from rental
```

→ **Show rental info with additional columns month and weekday. Get 20.**

```
select *, date_format(rental_date, '%M') as month , date_format(rental_date, '%W') as weekday
from rental
limit 20;
```

→ Add an additional column `day_type` with values 'weekend' and 'workday' depending on the rental day of the week.

```
select *, case when date_format(rental_date, '%W') in ('Saturday', 'Sunday')
              then 'weekend'
              else 'workday' end as day_type
from rental;
```

→ How many rentals were in the last month of activity?

```
select date(max(rental_date)) - INTERVAL 30 DAY, date(max(rental_date))
from rental;

select count(*)
from rental
where date(rental_date) between date('2006-01-15') and date('2006-02-14')
```

## Lab 4

### Instructions

→ Get film ratings.

```
select distinct(rating) from film
```

rating
PG
G
NC-17
PG-13
R

→ Get release years.

```
select distinct(release_year) from film
```

release_year
--------------

2006
------

→ Get all films with ARMAGEDDON in the title.

```
select title from film
where title regexp 'ARMAGEDDON'
```

title
-------

ARMAGEDDON LOST
-----------------

LADYBUGS ARMAGEDDON
---------------------

METAL ARMAGEDDON
------------------

MOSQUITO ARMAGEDDON
---------------------

STAGECOACH ARMAGEDDON
-----------------------

STEERS ARMAGEDDON
-------------------

→ Get all films with APOLLO in the title

```
select title from film
where title regexp 'APOLLO'
```

title
-------

APOLLO TEEN
-------------

SALUTE APOLLO
---------------

SCORPION APOLLO
-----------------

TEEN APOLLO
-------------

WEDDING APOLLO
----------------

WILD APOLLO
-------------

→ Get all films which title ends with APOLLO.

```
select title from film
where title regexp 'APOLLO$'
```

title
SALUTE APOLLO
SCORPION APOLLO
TEEN APOLLO
WEDDING APOLLO
WILD APOLLO

→ Get all films with word DATE in the title.

```
select title from film
where title regexp 'DATE'
```

title
CANDIDATE PERDITION
CAUSE DATE
DATE SPEED
FOREVER CANDIDATE
GUMP DATE
SPEAKEASY DATE
TROUBLE DATE

→ Get 10 films with the longest title.

```
select title, LENGTH(title) from film
order by LENGTH(title) DESC
limit 10
```

title	LENGTH(title)
ARACHNOPHOBIA ROLLERCOASTER	27
SATISFACTION CONFIDENTIAL	25
ENTRAPMENT SATISFACTION	23
DESPERATE TRAINSPOTTING	23
EXTRAORDINARY CONQUERER	23
TRAINSPOTTING STRANGERS	23
GOLDFINGER SENSIBILITY	22
INTOLERABLE INTENTIONS	22
CONFIDENTIAL INTERVIEW	22
DELIVERANCE MULHOLLAND	22

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MUSCLE BRIGHT	185
WORST BANGER	185
GANGS PRIDE	185
SOLDIERS EVOLUTION	185
HOME PITY	185
SWEET BROTHERHOOD	185
CONTROL ANTHEM	185

How many films include **Behind the Scenes** content? → 538

```
select COUNT(*) from film
where special_features regexp 'Behind the Scenes'
```

→ List films ordered by release year and title in alphabetical order.

```
select * from film
order by release_year, title ASC
```

film_id	title	description	release_year
1	ACADEMY DINOSAUR	A Epic Drama of a Feminist And a M...	2006
2	ACE GOLDFINGER	A Astounding Epistle of a Database...	2006
3	ADAPTATION HOLES	A Astounding Reflection of a Lumb...	2006
4	AFFAIR PREJUDICE	A Fanciful Documentary of a Frisbe...	2006
5	AFRICAN EGG	A Fast-Paced Documentary of a Pa...	2006
6	AGENT TRUMAN	A Intrepid Panorama of a Robot An...	2006
7	AIRPLANE SIERRA	A Touching Saga of a Hunter And a...	2006
8	AIRPORT POLLOCK	A Epic Tale of a Moose And a Girl w...	2006
9	ALABAMA DEVIL	A Thoughtful Panorama of a Databa...	2006
10	ALADDIN CALENDAR	A Action-Packed Tale of a Man And...	2006
11	ALAMO VIDEOTAPE	A Boring Epistle of a Butler And a C...	2006
12	ALASKA PHANTOM	A Fanciful Saga of a Hunter And a P...	2006
13	ALI FOREVER	A Action-Packed Drama of a Dentis...	2006
14	ALICE FANTASIA	A Emotional Drama of a A Shark An...	2006
15	ALIEN CENTER	A Brilliant Drama of a Cat And a Ma...	2006