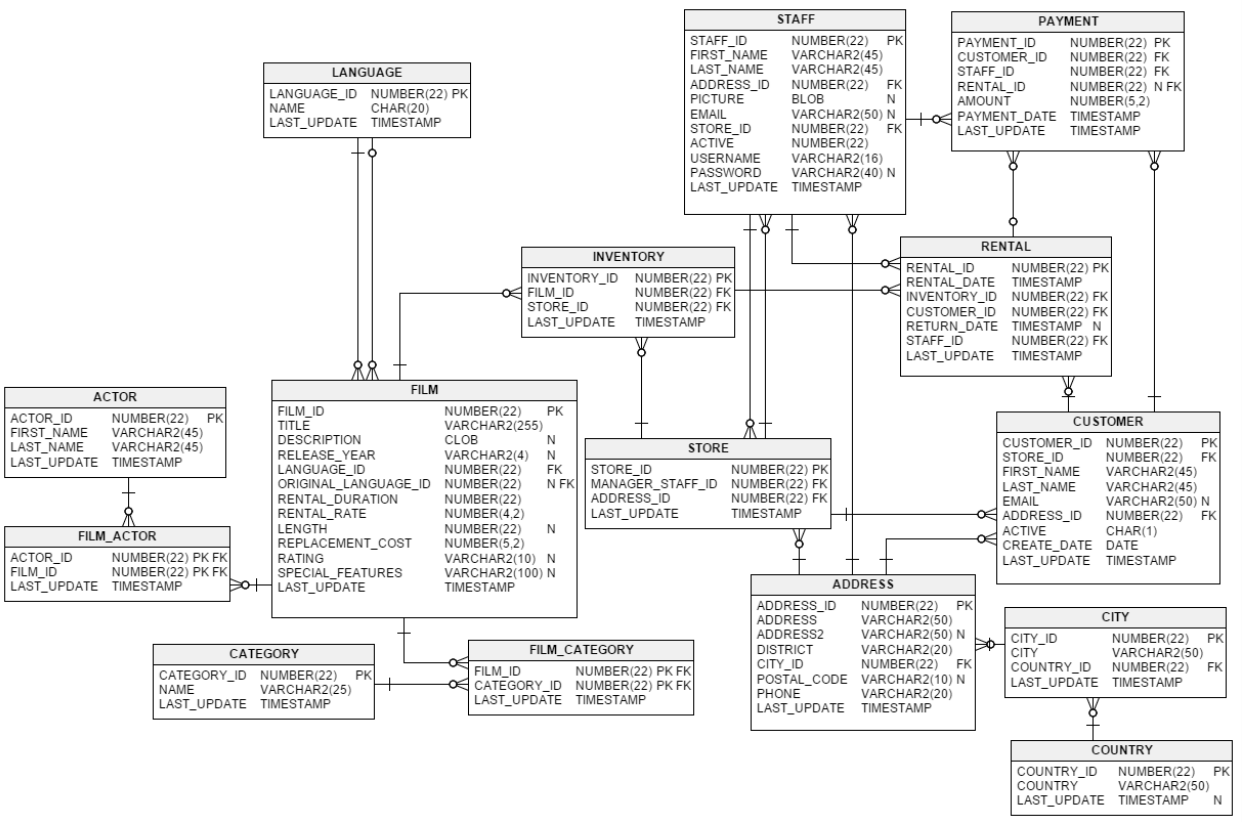
2.01 Labs | SQL Intro 1+2

Completed Date	@Oct 26, 2020
Description	Two super fun and easy labs on mySQL.
Module	Unit 2
Status	Complete
Type	Lab

> ❗ Install the file here → refresh sakila. First data→ schema.

In this lab, you will be using the Sakila database of movie rentals. You can follow the steps listed here to get the data locally: Sakila sample database - installation. You can work with two sql query files - `sakila-schema.sql` (creates the schema) + `sakila-data.sql` which inserts the data.

The ERD is pictured below - not all tables are shown, but many of the key fields you will be using are visible:



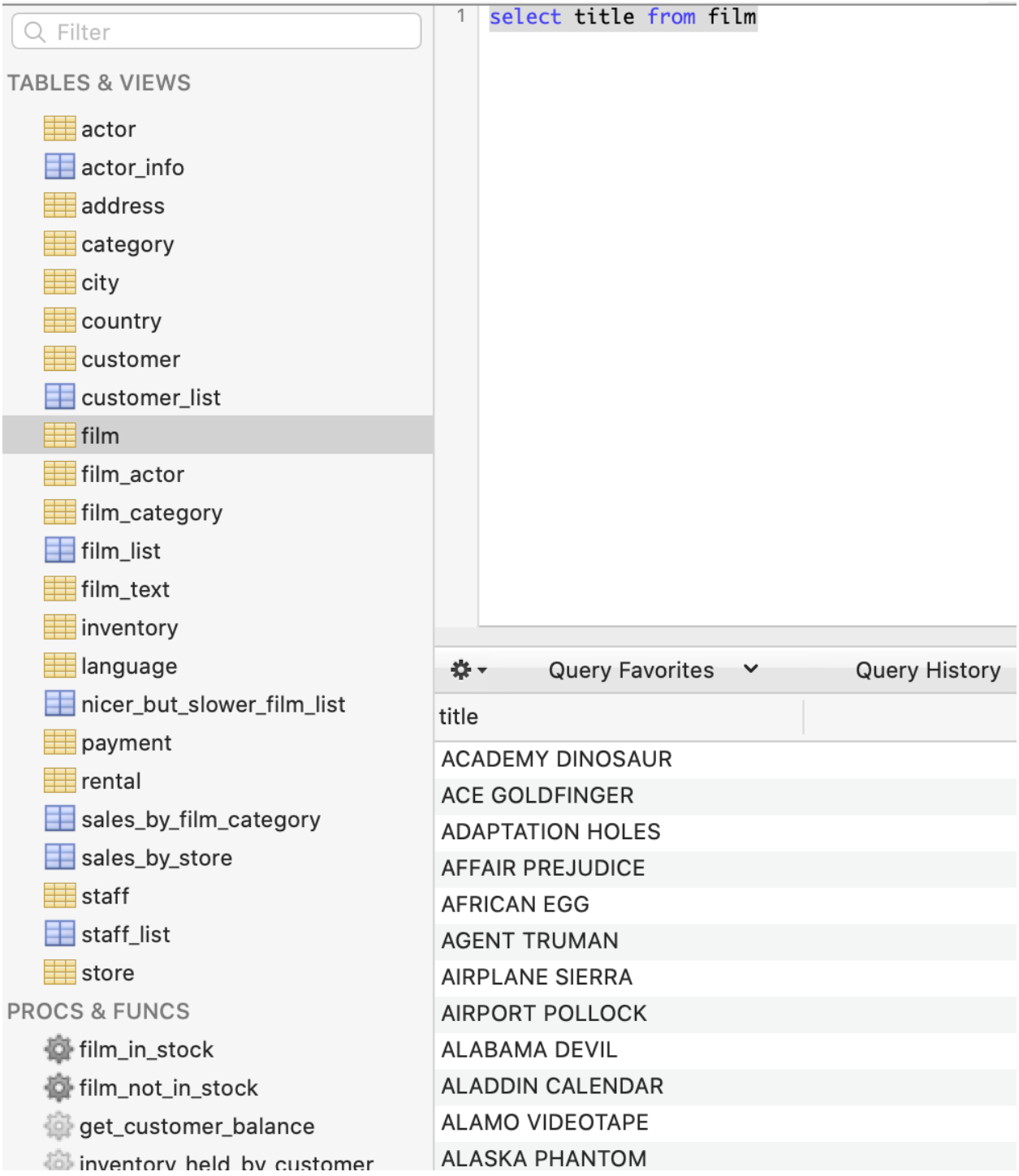
Instructions

→ Review the tables in the database.

→ Explore tables by selecting all columns from each table or using the in built review features for your client.

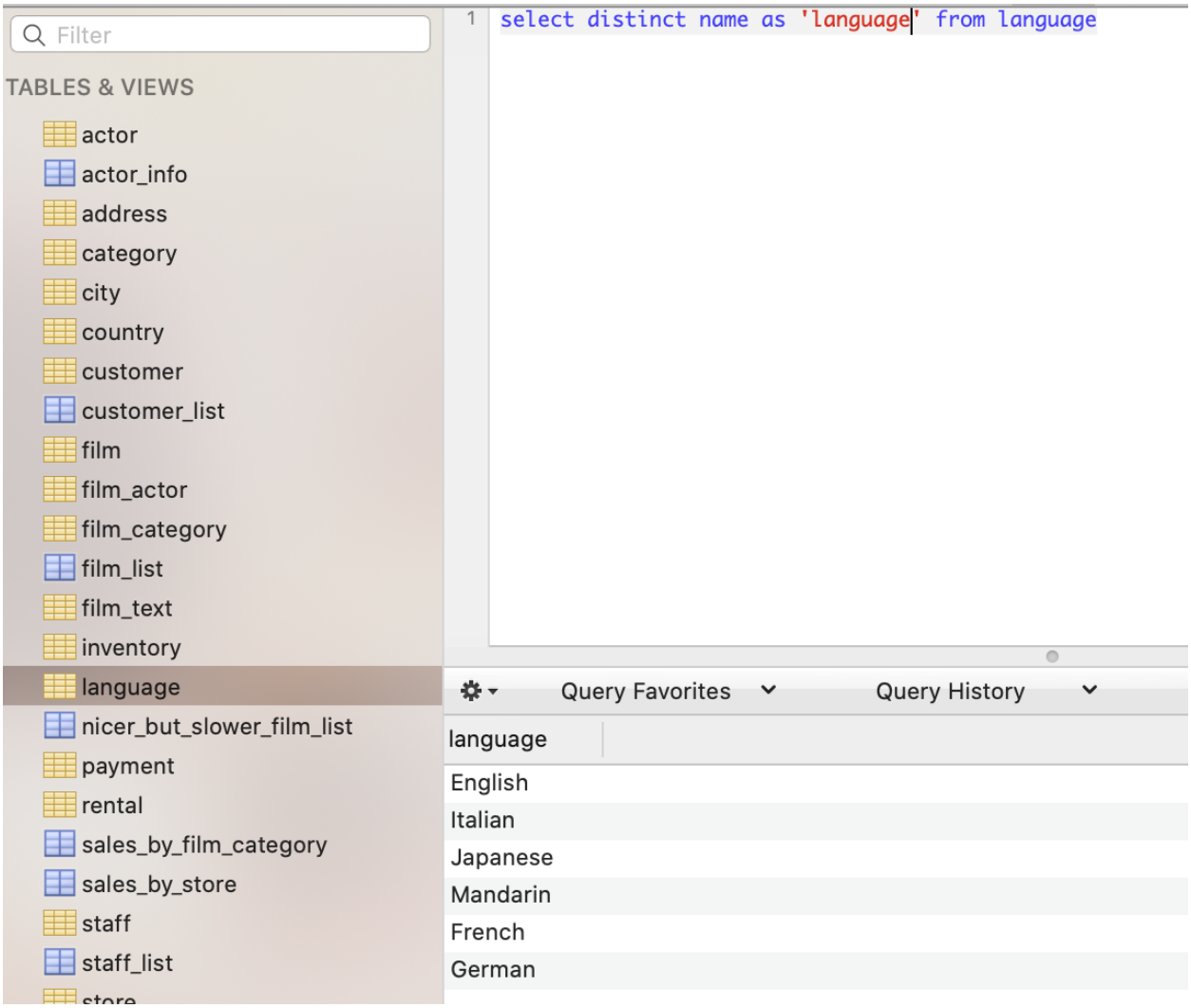
→ Select one column from a table. Get film titles.

```
select title from film
```



→ Select one column from a table and alias it. Get unique list of film languages under the alias `language`. Note that we are not asking you to obtain the language per each film, but this is a good time to think about how you might get that information in the future.

```
select distinct name as 'language' from language
```

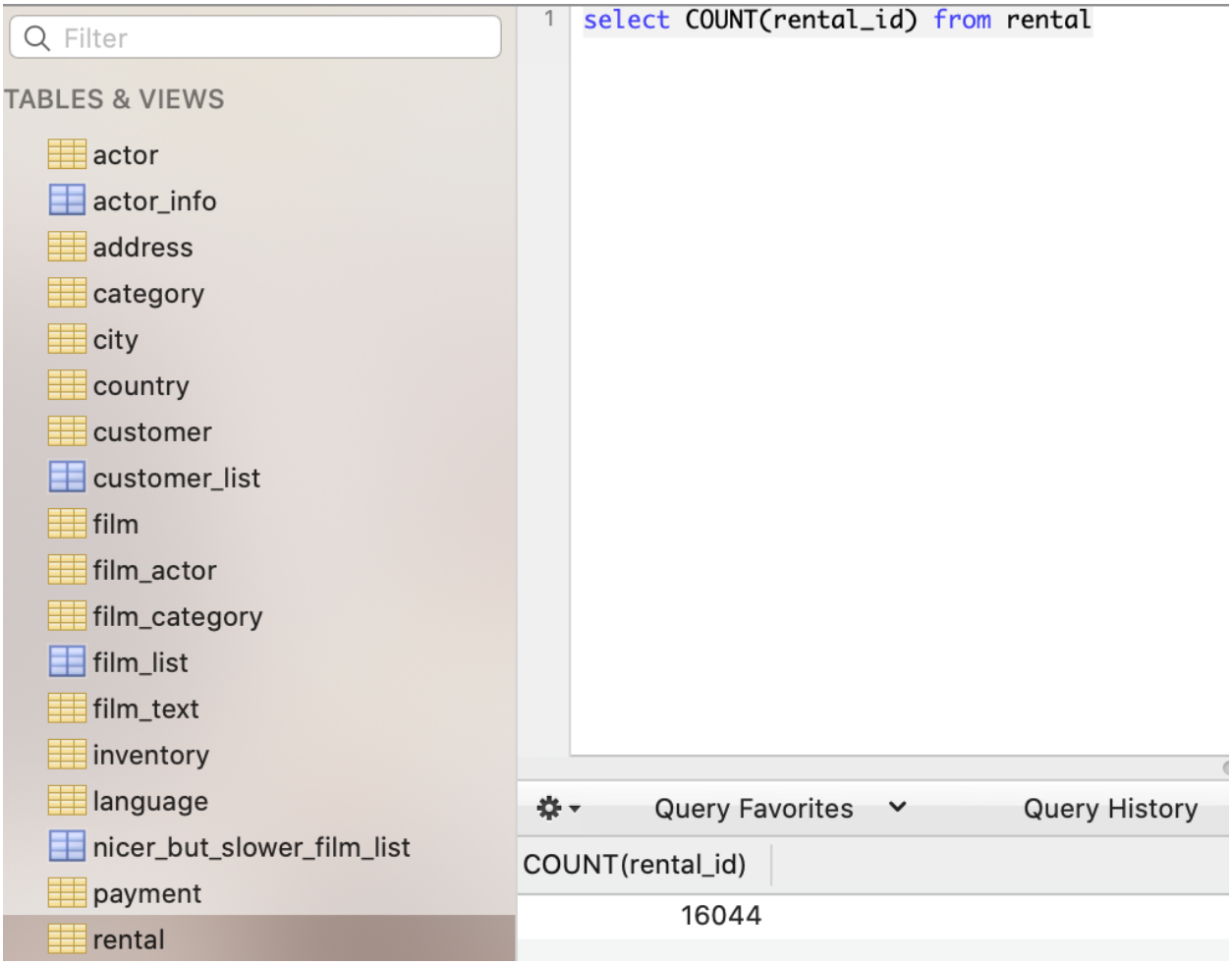


→ Using the `select` statements and reviewing how many records are returned, can you find out how many stores and staff does the company have? Can you return a list of employee first names only?

```
#how many records are returned?
select COUNT(rental_id) from rental

#stores
select COUNT(store_id) from store-> 2
```

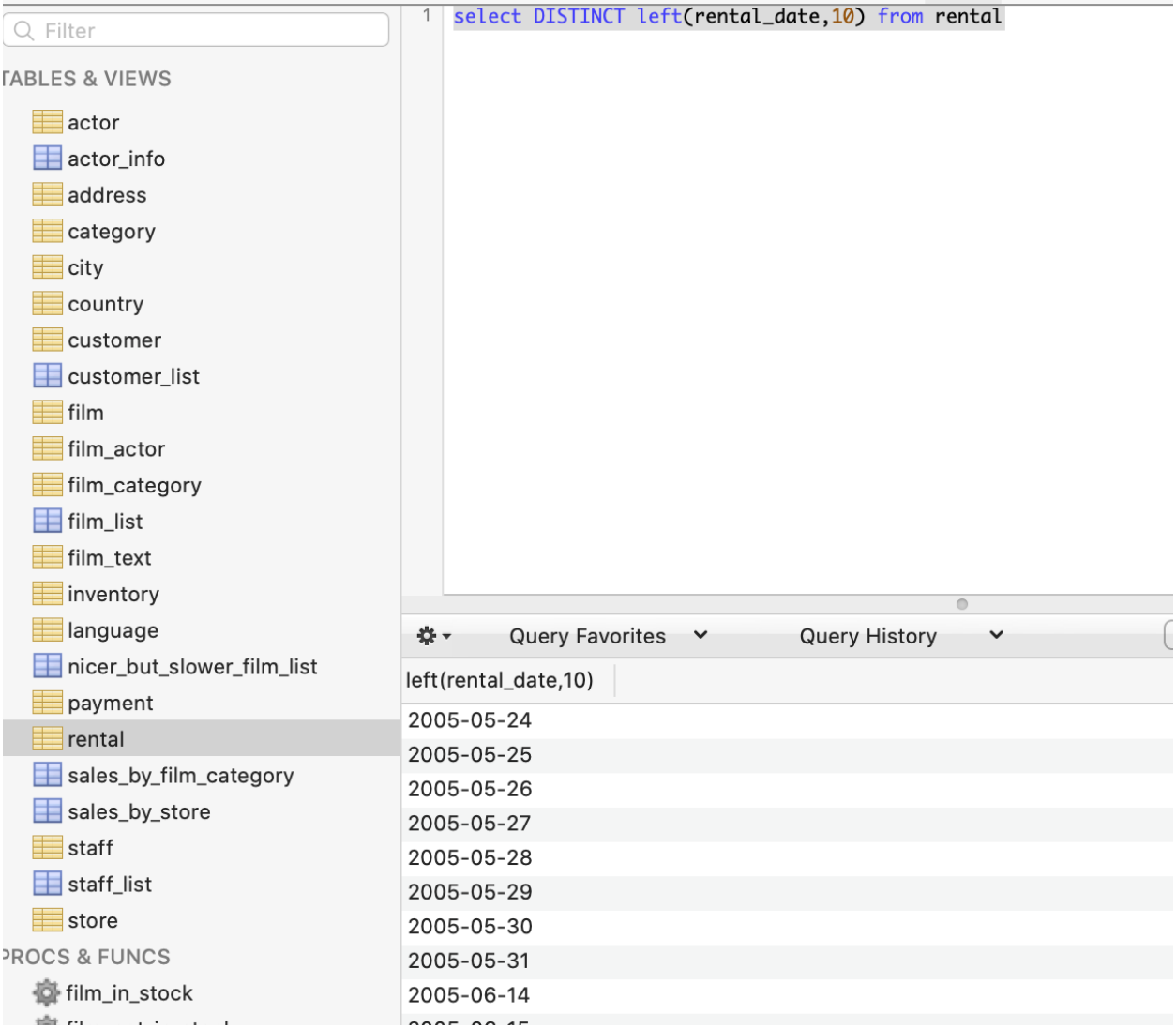
```
#staff
select COUNT(staff_id) from staff
```




```
select first_name from staff
```

→ Bonus: How many unique days did customers rent movies in this dataset? → 41

```
select DISTINCT left(rental_date,10) from rental
```



Lab 2

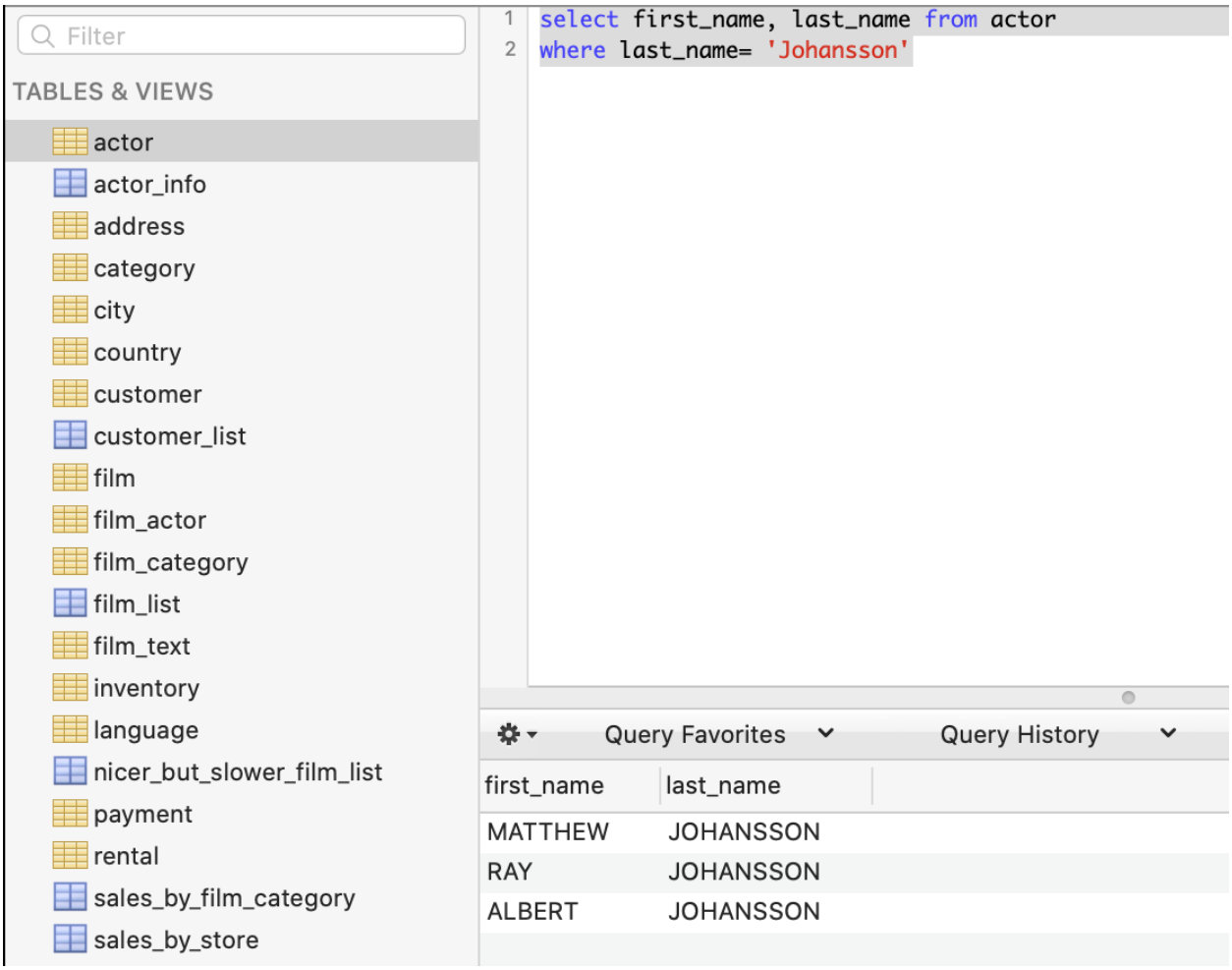
Instructions

1. Select all the actors with the first name ‘Scarlett’. → 2

```
select first_name from actor
where first_name= 'Scarlett'
```

1. Select all the actors with the last name ‘Johansson’. → 3

```
select first_name, last_name from actor
where last_name= 'Johansson'
```



→ How many films (movies) are available for rent?→ 1000

```
select COUNT(title) from film
```

1. How many films have been rented?

→ What is the shortest and longest rental period?

```
MAX-> 7
select max(rental_duration) from film

MIN-> 3
select min(rental_duration) from film
```

→ What are the shortest and longest movie duration? Name the values `max_duration` and `min_duration`.

```
MIN-> 46
select min(length) as min_duration from film

MAX-> 185
select max(length) as max_duration from film
```

→ What's the average movie duration?

```
115.2720

select AVG(length) from film
```

→ What's the average movie duration expressed in format (hours, minutes)?

```
select CONCAT (FLOOR(length/60), 'h', MOD(length,60), 'm') from film


select CONCAT (FLOOR(avg(length)/60), 'h', MOD(avg(length),60), 'm') from film

-> 1.55

OR
```

How many movies longer than 3 hours?→ 39

```
select COUNT(length) from film
where length > 180
```

Get the name and email formatted. Example: Mary SMITH - *mary.smith@sakilacustomer.org*.

```
select LOWER(email) from customer
```

1. What's the length of the longest film title?

```
27

select max(length(title)) from film
```