

Project 04: Movie Data Analysis

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Exercise 1

The screenshot shows a VS Code editor with a file named `project-04.md` open. The file contains a series of SQL queries for a PostgreSQL database. The queries are as follows:

```
-- Active: 1730414369362@127.0.0.1@5432@dvdrental@public PostgreSQL
-- 1. Vamos a seleccionar el nombre y apellido de los actores
SELECT first_name, last_name FROM actor;

-- 2. Vamos a seleccionar el nombre completo del actor en una sola columna
SELECT CONCAT(first_name, ' ', last_name) AS full_name FROM actor;

-- 3. Selecciona los actores que su nombre empieza con "D"
SELECT first_name, last_name FROM actor WHERE first_name LIKE 'D%';

-- 4. ¿Tenemos algún actor con el mismo nombre?
SELECT first_name, COUNT(*) FROM actor GROUP BY first_name HAVING COUNT(*) > 1;

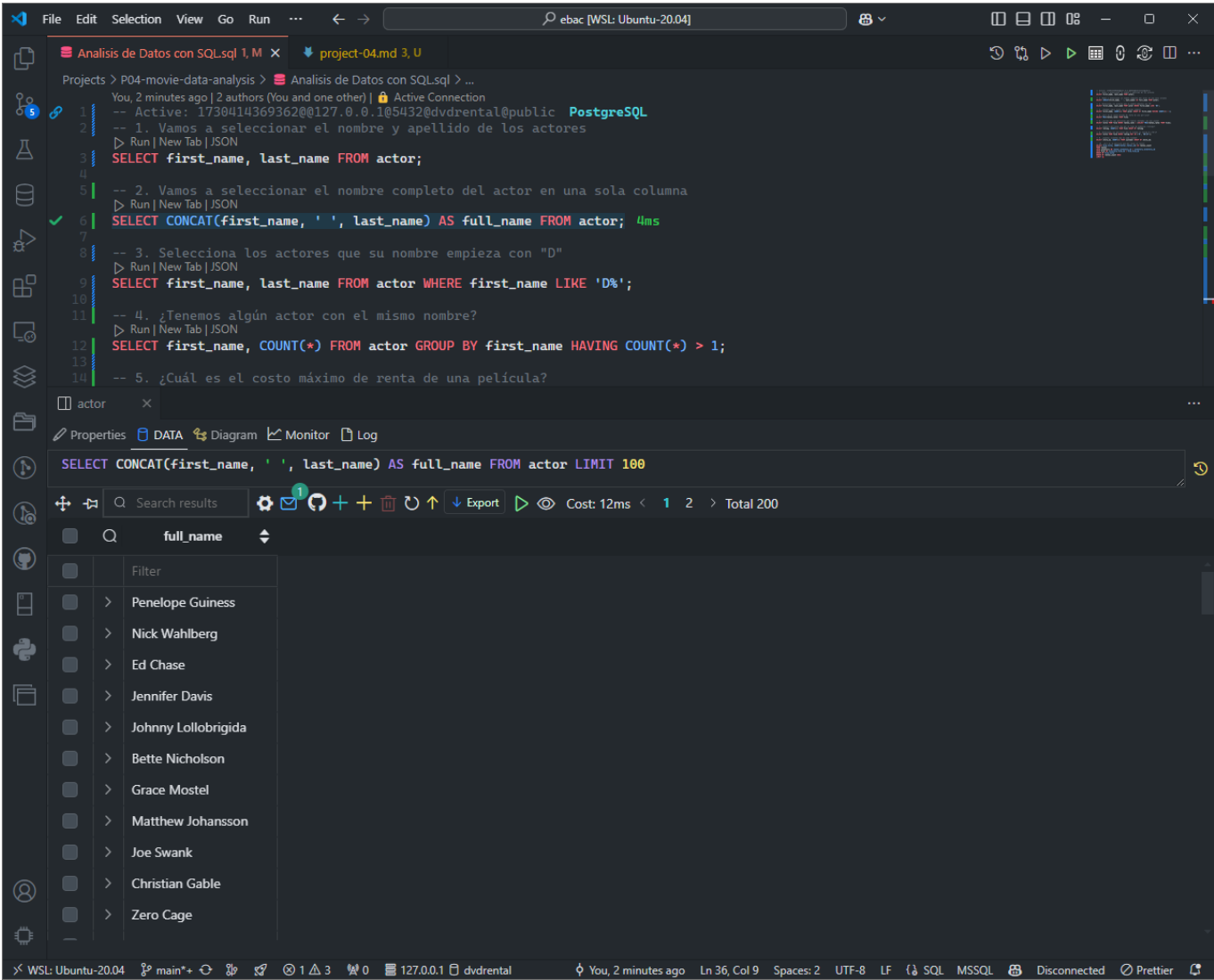
-- 5. ¿Cuál es el costo máximo de renta de una película?
```

Below the editor, the results of the first query are displayed in a table. The table has two columns: `first_name` and `last_name`. The results are as follows:

first_name	last_name
Penelope	Guinness
Nick	Wahlberg
Ed	Chase
Jennifer	Davis
Johnny	Lolobrigida
Bette	Nicholson
Grace	Mostel
Matthew	Johansson
Joe	Swank
Christian	Gable
Zero	Cage

The status bar at the bottom of the editor shows the following information: `WSL: Ubuntu-20.04`, `main*`, `127.0.0.1 dvdrental`, `You, 2 minutes ago`, `Ln 36, Col 9`, `Spaces: 2`, `UTF-8`, `LF`, `SQL`, `MSSQL`, `Disconnected`, and `Prettier`.

Exercise 2



Exercise 3

FileEditSelectionViewGoRun...←→ebac [WSL: Ubuntu-20.04]

Analisis de Datos con SQL.sql 1, M Xproject-04.md 3, U

Projects > P04-movie-data-analysis > Analisis de Datos con SQL.sql > ...

5 | -- 2. Vamos a seleccionar el nombre completo del actor en una sola columna
6 | ▶ Run | New Tab | JSON
7 |
8 | SELECT CONCAT(first_name, ' ', last_name) AS full_name FROM actor;
9 |
10 | -- 3. Selecciona los actores que su nombre empieza con "D"
11 | ▶ Run | New Tab | JSON
12 | SELECT first_name FROM actor WHERE first_name LIKE 'D%'; 3ms
13 |
14 | -- 4. ¿Tenemos algún actor con el mismo nombre?
15 | ▶ Run | New Tab | JSON
16 | SELECT first_name, COUNT(*) FROM actor GROUP BY first_name HAVING COUNT(*) > 1;
17 |
18 | -- 5. ¿Cuál es el costo máximo de renta de una película?
19 | ▶ Run | New Tab | JSON
20 | SELECT MAX(rental_rate) FROM film;
21 |
22 | -- 6. ¿Cuáles son las películas que fueron rentadas con ese costo?
23 | ▶ Run | New Tab | JSON
24 | SELECT title FROM film WHERE rental_rate = (SELECT MAX(rental_rate) FROM film);

actor X

PropertiesDATADiagramMonitorLog

SELECT first_name, last_name FROM actor WHERE first_name LIKE 'D%' LIMIT 100

Q Search results

1

Cost: 6ms < 1 > Total 7

first_name
varchar(45)

last_name
varchar(45)

	Filter	Filter
<input type="checkbox"/>	> Dan	Tom
<input type="checkbox"/>	> Dan	Harris
<input type="checkbox"/>	> Dustin	Tautou
<input type="checkbox"/>	> Daryl	Wahlberg
<input type="checkbox"/>	> Dan	Streep
<input type="checkbox"/>	> Daryl	Crawford
<input type="checkbox"/>	> Debbie	Akroyd

WSL: Ubuntu-20.04

main+ ↺ ↻

1 3 0

127.0.0.1 dvdrental

You, 4 minutes ago

Ln 36, Col 9

Spaces: 2

UTF-8

LF

SQL

MSSQL

Disconnected

Prettier

Exercise 4

File Edit Selection View Go Run ...

ebac [WSL: Ubuntu-20.04]

Analysis de Datos con SQL.sql 1, M X project-04.md 3, U

Projects > P04-movie-data-analysis > Analisis de Datos con SQL.sql > ...

5 | -- 2. Vamos a seleccionar el nombre completo del actor en una sola columna

6 | SELECT CONCAT(first_name, ' ', last_name) AS full_name FROM actor;

7 |

8 | -- 3. Selecciona los actores que su nombre empieza con "D"

9 | SELECT first_name, last_name FROM actor WHERE first_name LIKE 'D%';

10 |

11 | -- 4. ¿Tenemos algún actor

12 | SELECT first_name, COUNT(*) FROM actor GROUP BY first_name HAVING COUNT(*) > 1; 6ms

13 |

14 | -- 5. ¿Cuál es el costo máximo de renta de una película?

15 | SELECT MAX(rental_rate) FROM film;

16 |

17 | -- 6. ¿Cuáles son las películas que fueron rentadas con ese costo?

18 | SELECT title FROM film WHERE rental_rate = (SELECT MAX(rental_rate) FROM film);

actor

Properties DATA Diagram Monitor Log

SELECT first_name, COUNT(*) FROM actor GROUP BY first_name HAVING COUNT(*) > 1 LIMIT 100

Search results

first_name varchar(45) count

Filter	Filter
> Christian	3
> Kenneth	4
> Cameron	3
> Spencer	2
> Humphrey	2
> Audrey	2
> Fay	3
> Susan	2
> Michael	2
> Burt	3
> Mary	2

Cost: 16ms < 1 > Total 52

WSL: Ubuntu-20.04

main*+ ↺

1 3 0

127.0.0.1 dvdrental

You, 5 minutes ago

Ln 36, Col 9

Spaces: 2

UTF-8

LF

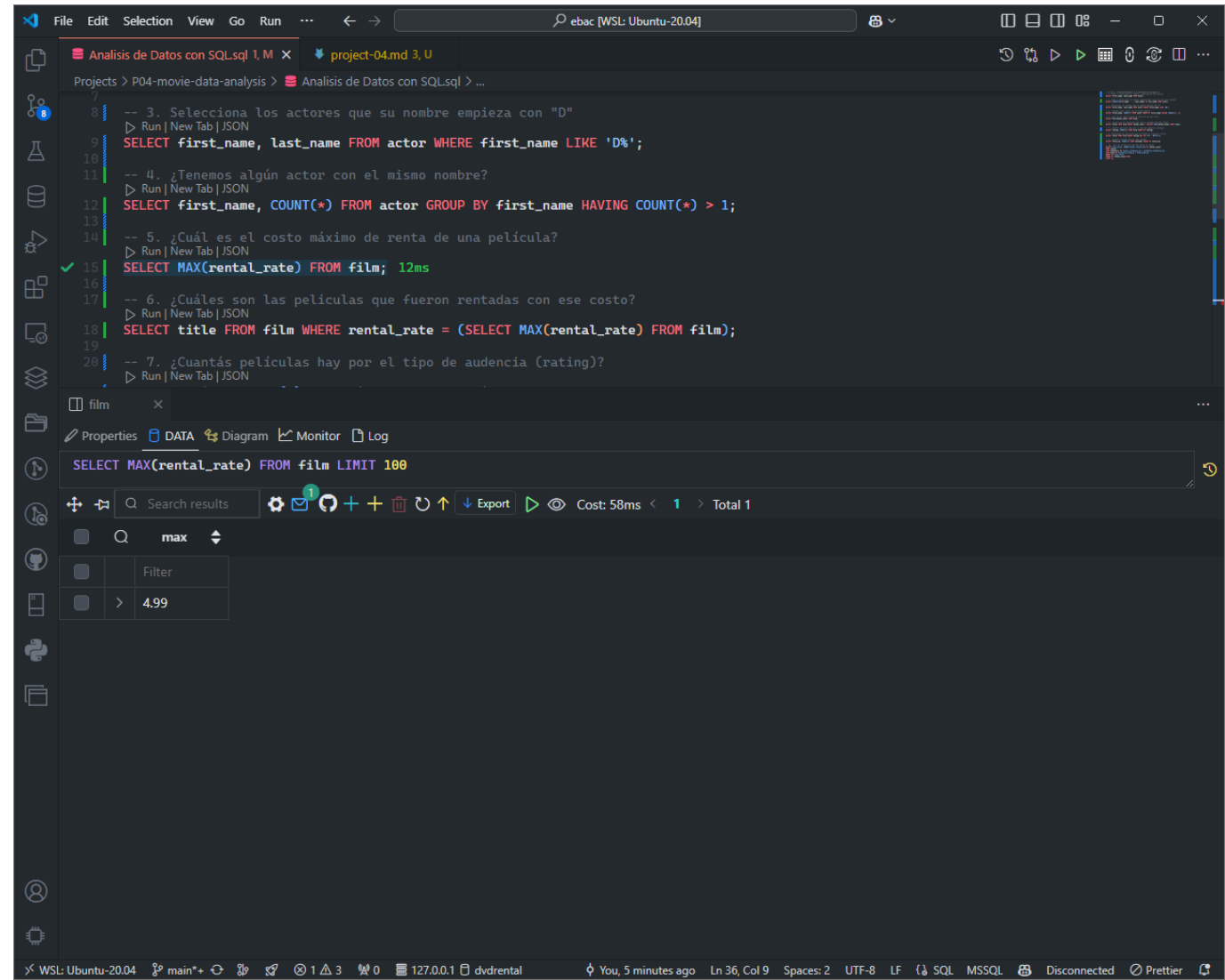
SQL

MSSQL

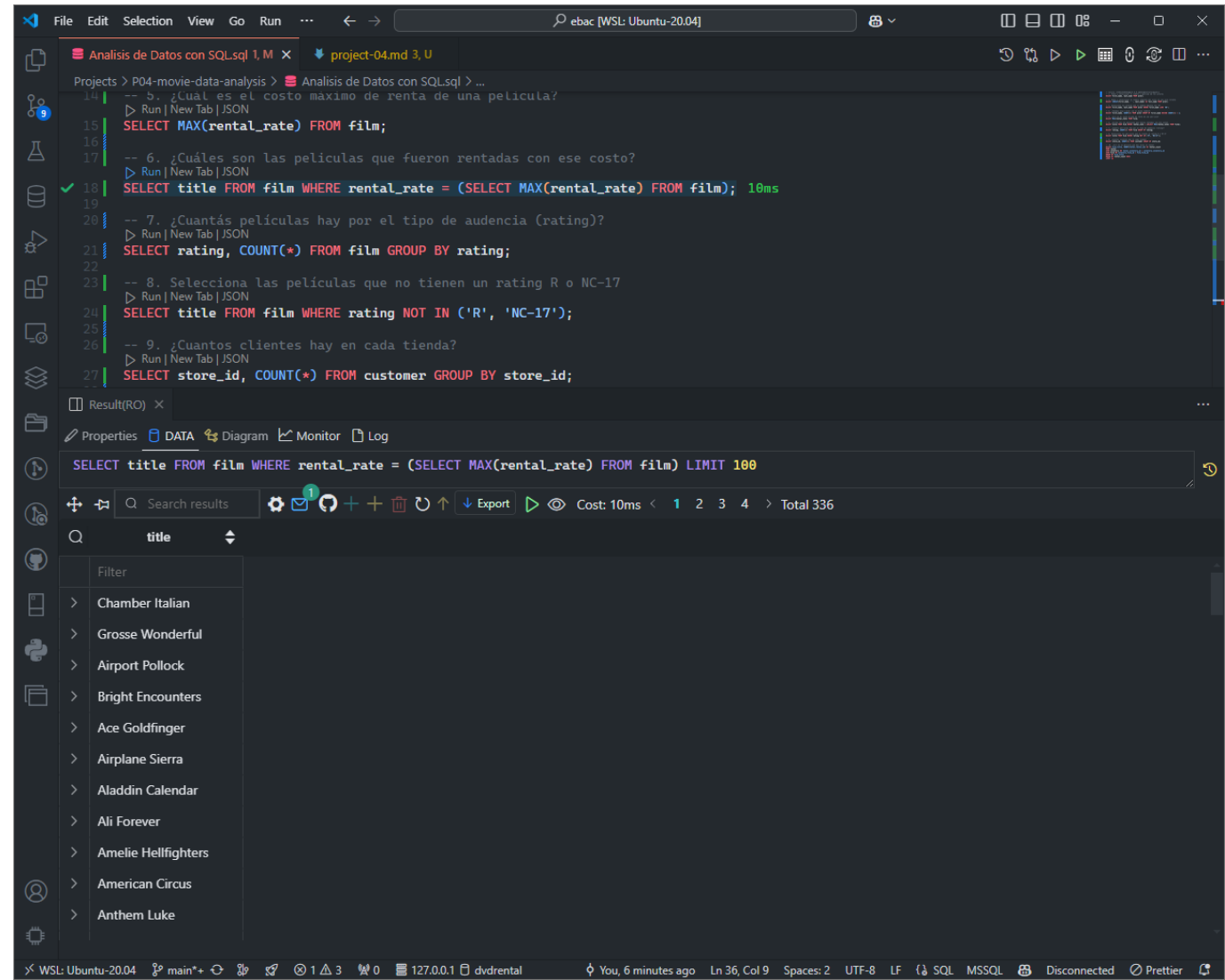
Disconnected

Prettier

Exercise 5



Exercise 6



Exercise 7

File Edit Selection View Go Run ...

ebac [WSL: Ubuntu-20.04]

Analysis de Datos con SQL.sql 1, M project-04.md 3, U

Projects > P04-movie-data-analysis > Analysis de Datos con SQL.sql > ...

14 -- 5. ¿Cual es el costo maximo de renta de una pelicula?

Run | New Tab | JSON

15 SELECT MAX(rental_rate) FROM film;

16

17 -- 6. ¿Cuáles son las películas que fueron rentadas con ese costo?

Run | New Tab | JSON

18 SELECT title FROM film WHERE rental_rate = (SELECT MAX(rental_rate) FROM film);

19

20 -- 7. ¿Cuántas películas hay por el tipo de audiencia (rating)?

Run | New Tab | JSON

21 SELECT rating, COUNT(*) FROM film GROUP BY rating; 7ms

22

23 -- 8. Selecciona las películas que no tienen un rating R o NC-17

Run | New Tab | JSON

24 SELECT title FROM film WHERE rating NOT IN ('R', 'NC-17');

25

26 -- 9. ¿Cuántos clientes hay en cada tienda?

Run | New Tab | JSON

27 SELECT store_id, COUNT(*) FROM customer GROUP BY store_id;

film

Properties DATA Diagram Monitor Log

SELECT rating, COUNT(*) FROM film GROUP BY rating LIMIT 100

Search results

1

Export

Cost: 11ms < 1 > Total 5

rating

mpaa_rating

count

	Filter	Filter
>	G	178
>	PG	194
>	R	195
>	PG-13	223
>	NC-17	210

WSL: Ubuntu-20.04

main*+ ↺ ↻

1 3 0

127.0.0.1 dvdrental

You, 6 minutes ago

Ln 36, Col 9

Spaces: 2

UTF-8

LF

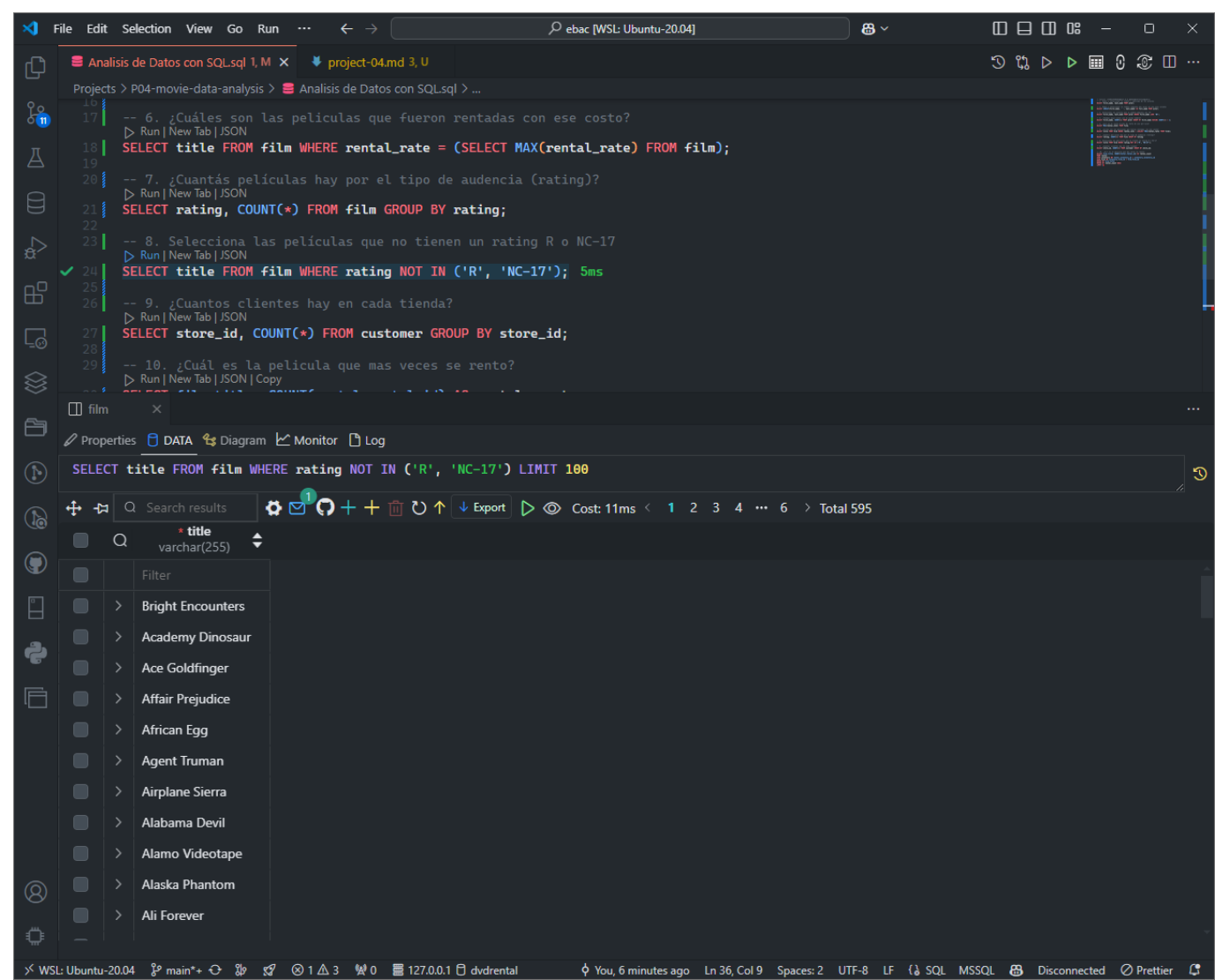
SQL

MSSQL

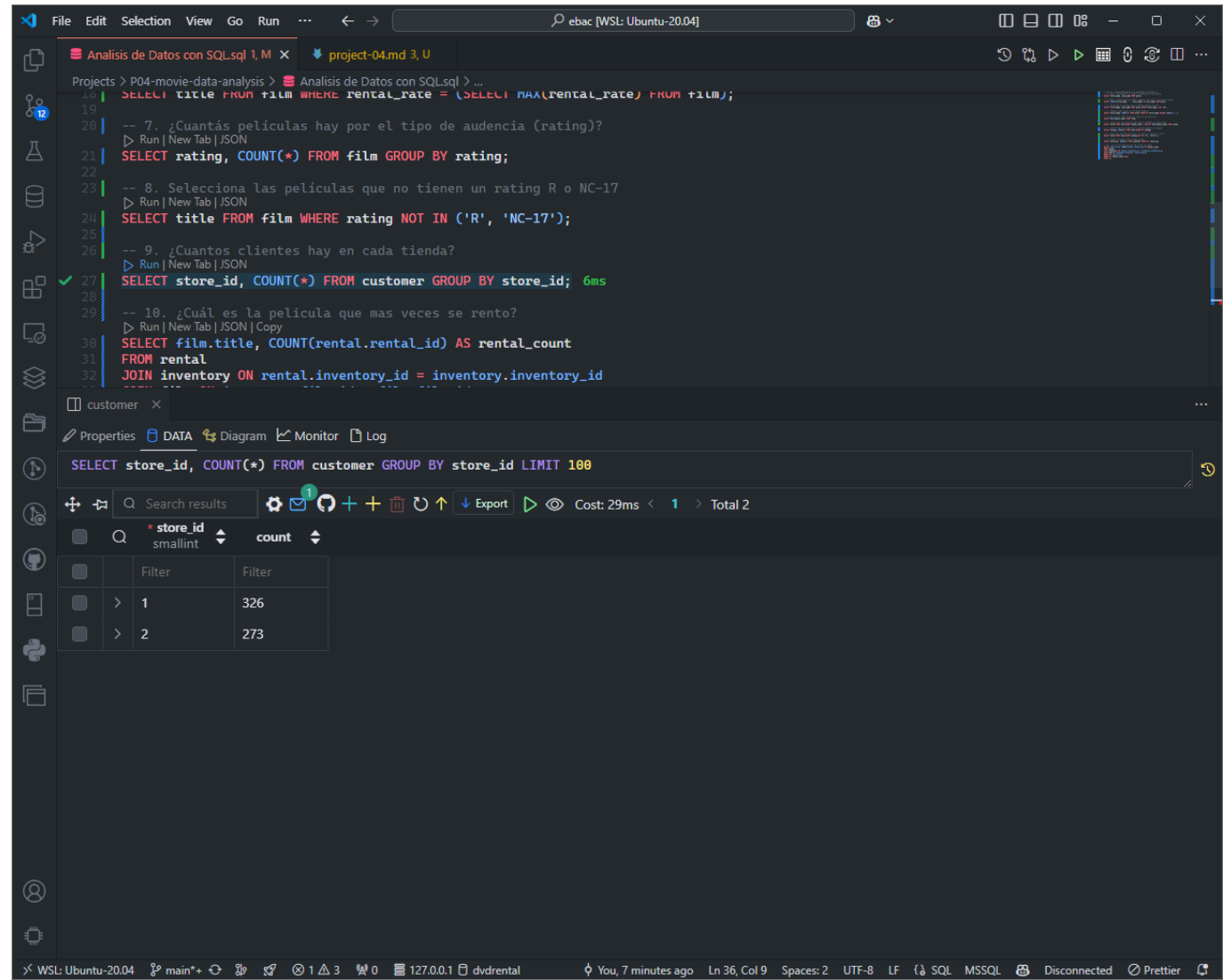
Disconnected

Prettier

Exercise 8



Exercise 9



Exercise 10

File Edit Selection View Go Run ...

ebac [WSL: Ubuntu-20.04]

Analysis de Datos con SQL.sql 1, M project-04.md 3, U

Projects > P04-movie-data-analysis > Analisis de Datos con SQL.sql > ...

26 -- 9. ¿Cuántos clientes hay en cada tienda?

27 SELECT store_id, COUNT(*) FROM customer GROUP BY store_id;

28

29 -- 10. ¿Cuál es la película que mas veces se rento?

30 SELECT film.title, COUNT(rental.rental_id) AS rental_count

31 FROM rental

32 JOIN inventory ON rental.inventory_id = inventory.inventory_id

33 JOIN film ON inventory.film_id = film.film_id

34 GROUP BY film.title

35 ORDER BY rental_count DESC

36 LIMIT 1;

42ms You, 7 minutes ago • Uncommitted changes

Result(RO) x

Search results

Cost: 42ms < 1 2 3 4 ... 958 > Total 958

title rental_count

Filter Filter

> Bucket Brotherhood 34

WSL: Ubuntu-20.04 main*+ 1 3 0 127.0.0.1 dvdrental You, 7 minutes ago Ln 36, Col 9 Spaces: 2 UTF-8 LF SQL MSSQL Disconnected Prettier