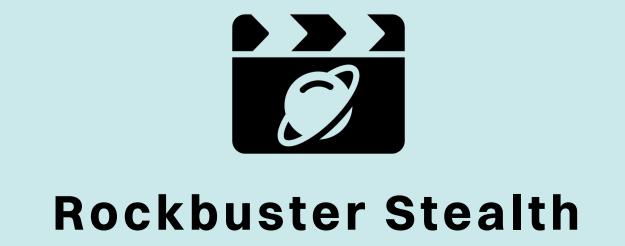
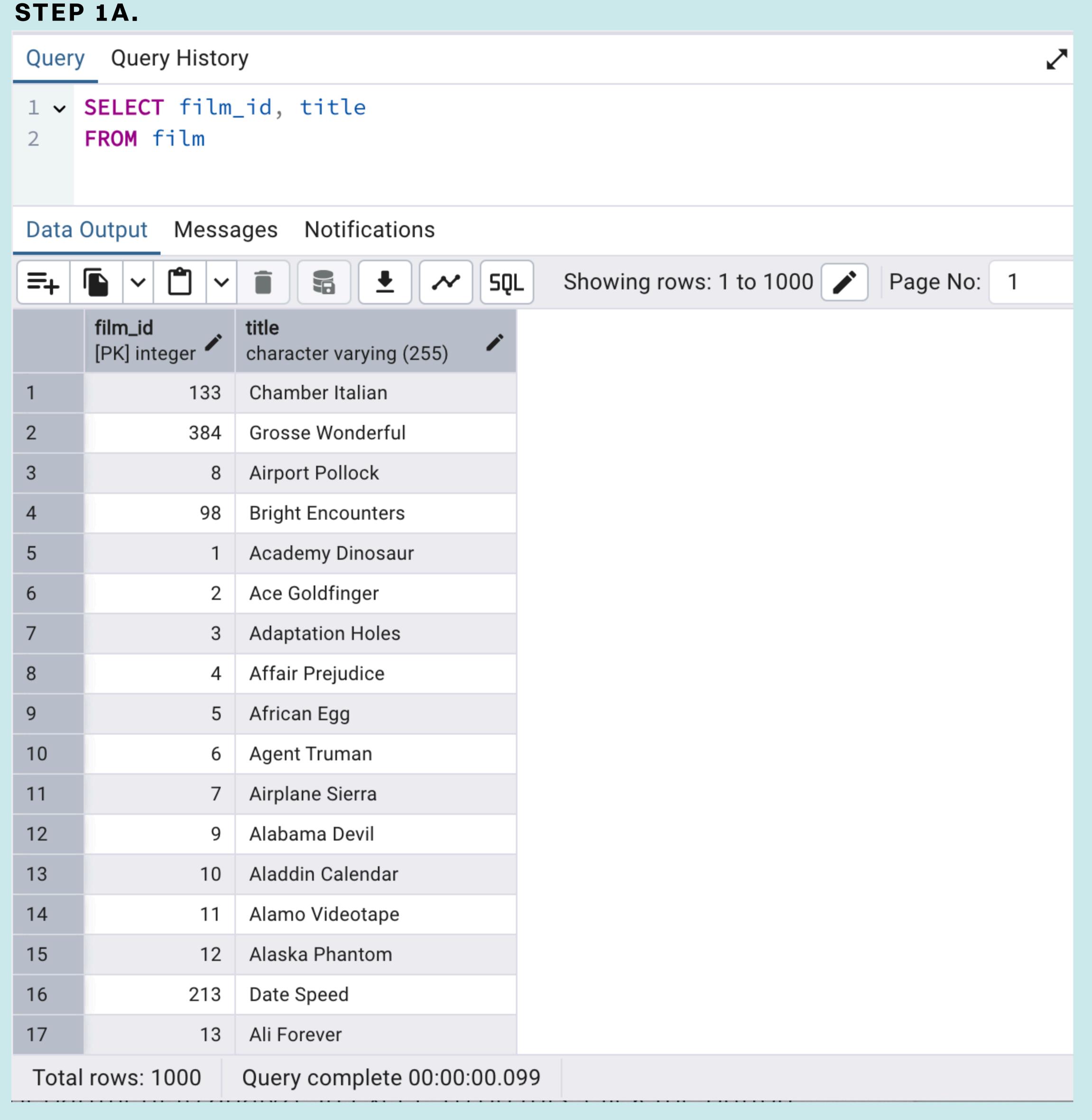
Data Immersion

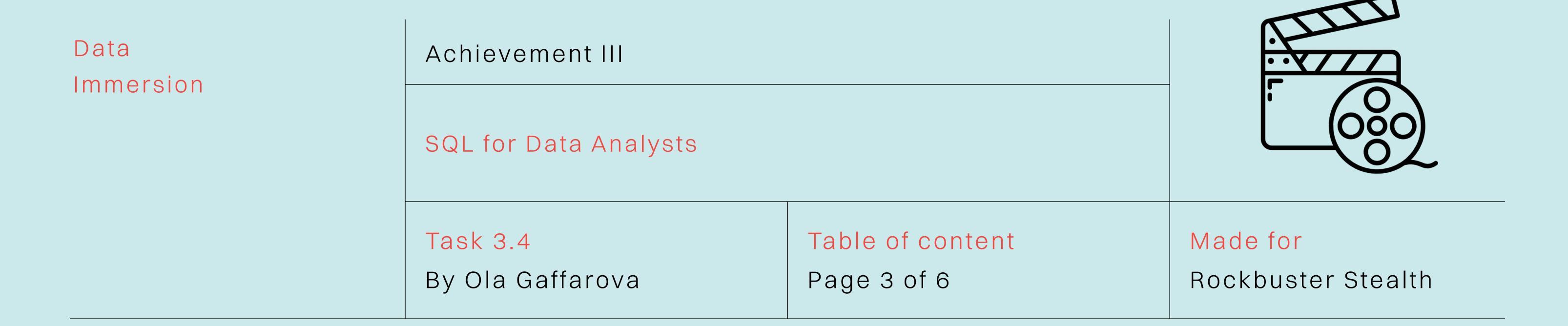
	Achievement III			
SQL for Data Analysts				
	Task 3.3 By Ola Gaffarova	Table of content Cover	Made for Rockbuster Stealth	

DATABASE QUERYING IN SQL



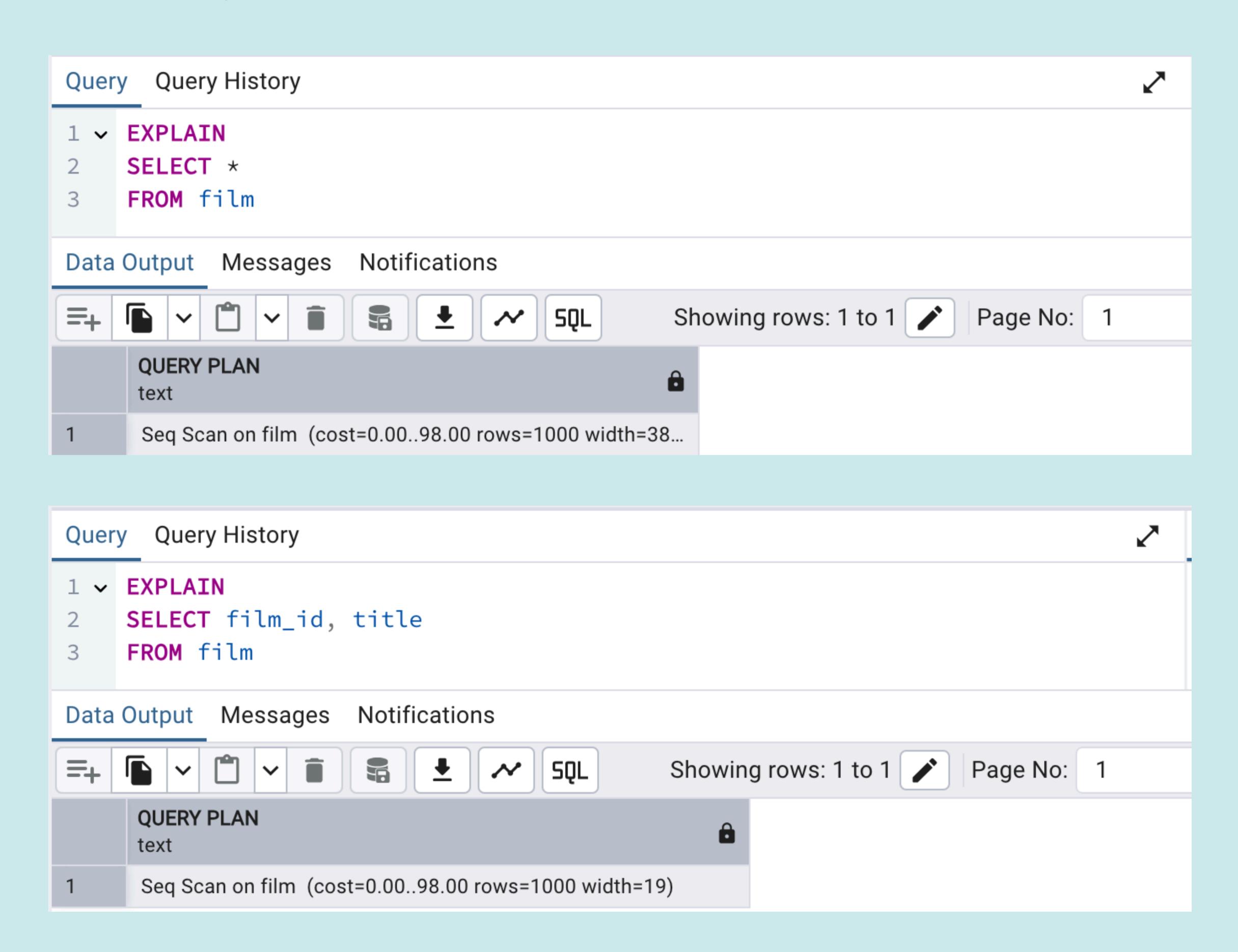
Data Achievement III Immersion SQL for Data Analysts Table of content Made for Task 3.4 By Ola Gaffarova Page 2 of 6 Rockbuster Stealth





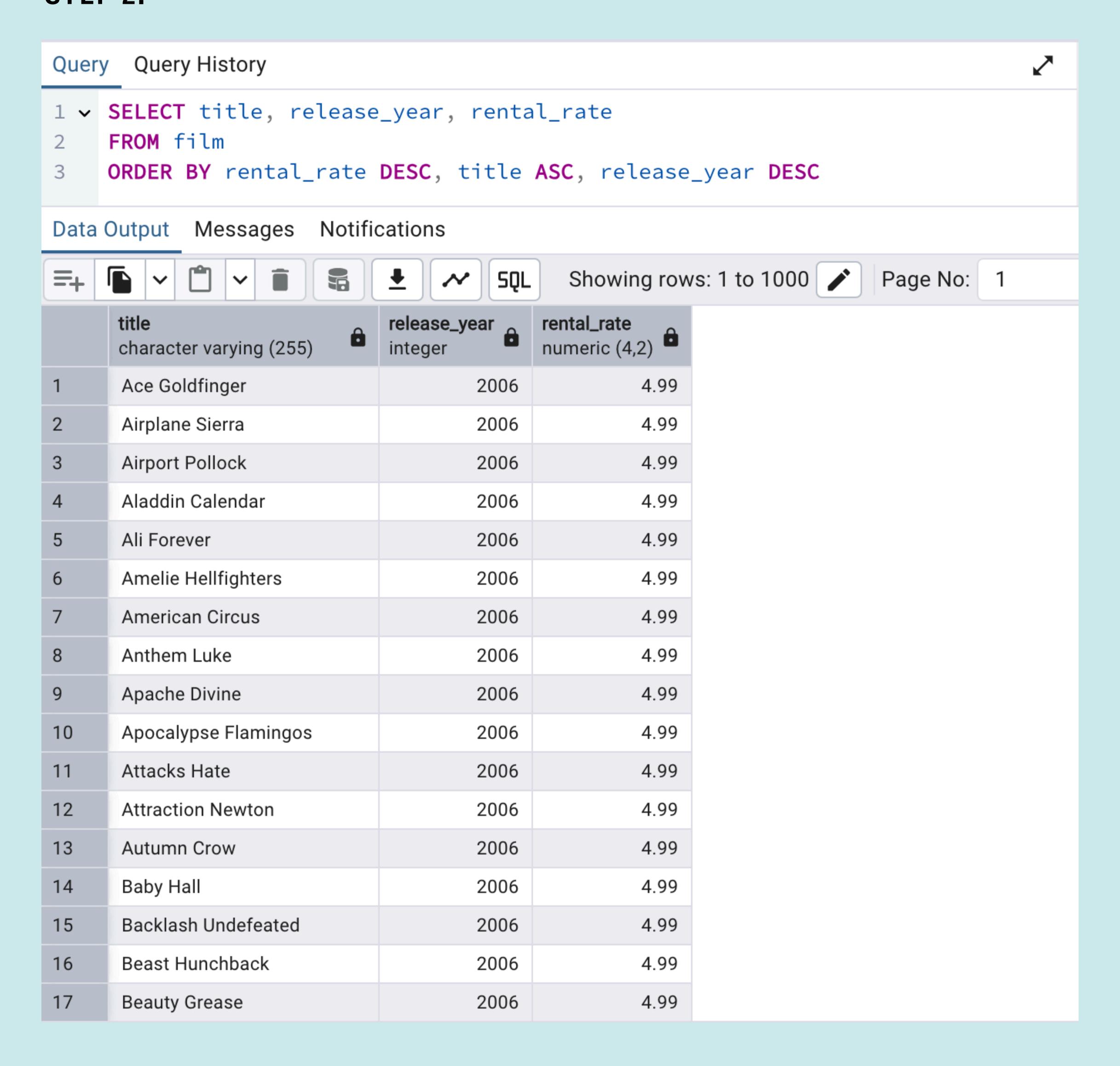
STEP 1B.

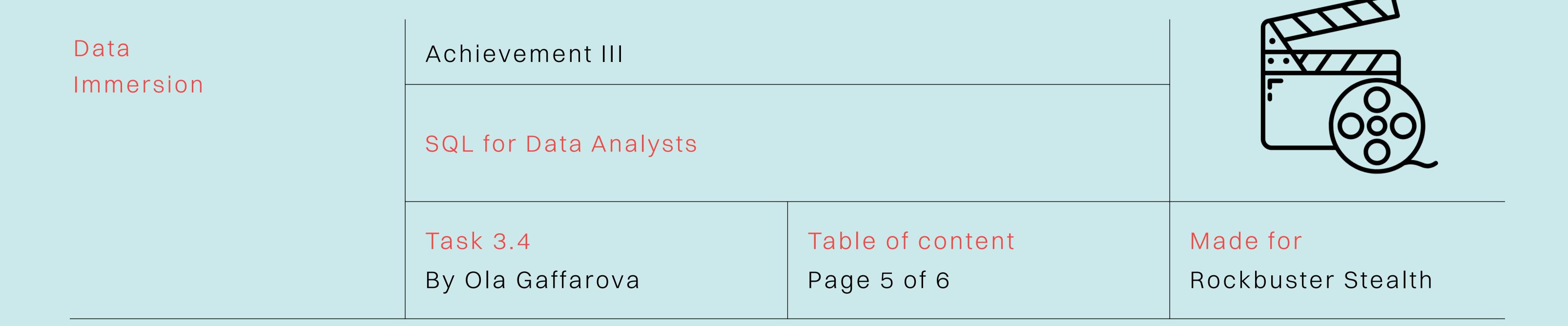
The two queries have the same costs and rows. They differ only from their widths. The original query retrieves all columns from the film table while the revised query only retrieves specific columns. (film_id, title). Better not to use SELECT *, because it retrieves all the columns. To optimize we can use LIMIT to limit the output.



Data Immersion	Achievement III		
	SQL for Data Analysts		(000)
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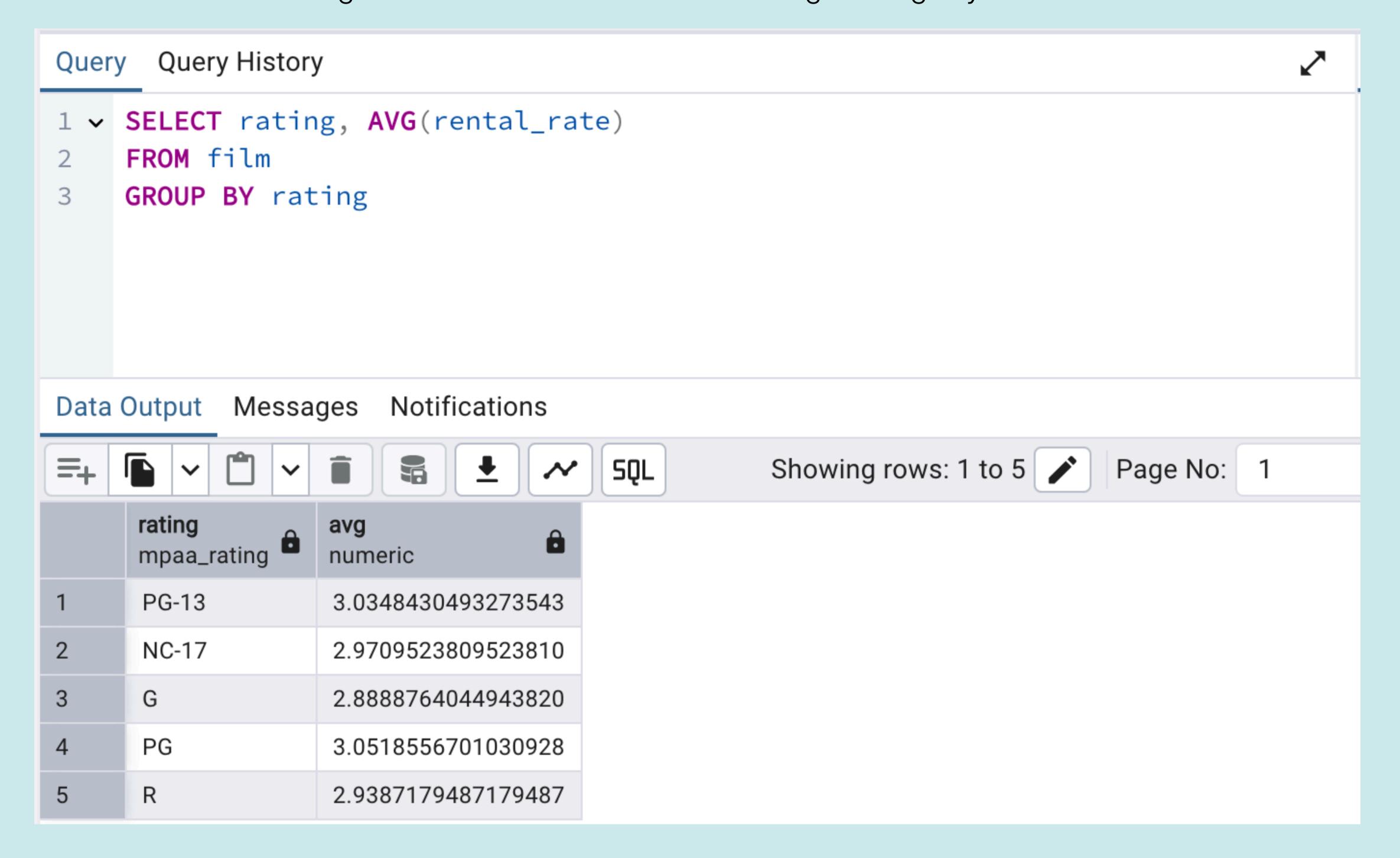
STEP 2.





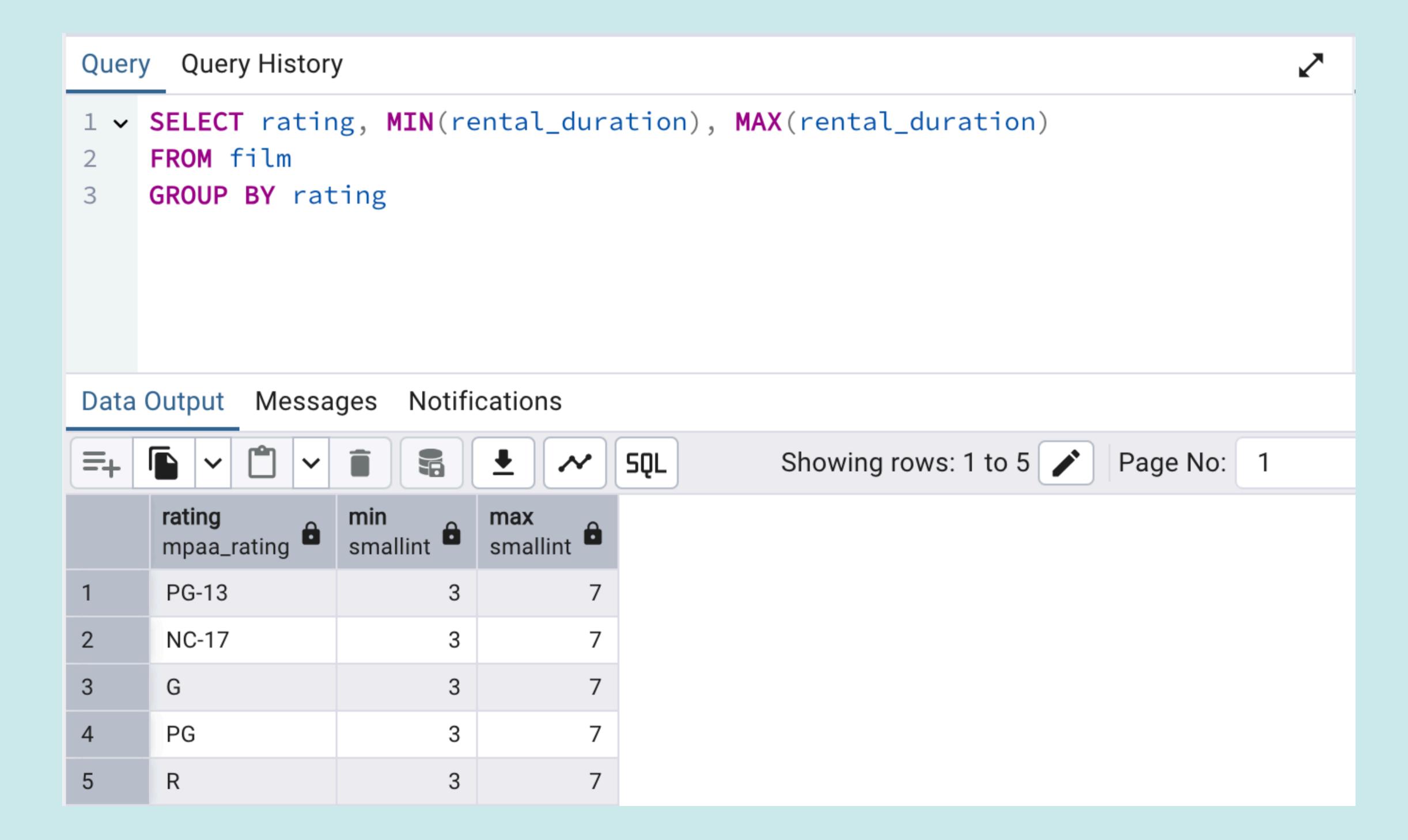
STEP 3A.

What is the average rental rate for each rating category?



STEP 3B.

What are the minimum and maximum rental durations for each rating category?



Achievement III SQL for Data Analysts Task 3.4 By Ola Gaffarova Achievement III Made for Page 6 of 6 Rockbuster Stealth

STEP 4.

Can you outline the procedure for migrating the data and who will be responsible for it?

The responsible person should be a Data Engineer.

The process is called ETL, which stands for Extract, Transform, Load.

- **1.** Extract The engineers should first extract the data from the existing application.
- 2. Transform Next, they need to clean and structure the data to ensure it aligns with Rockbuster's database format.
- 3. Load Finally, they will load the transformed data into Rockbuster's database.

What problems do you foresee if you start analyzing the data before it's been loaded into the data warehouse?

- It could require a significant amount of time and effort to understand and clean the raw data (depending on the data size and complexity).
- There is a higher risk of human error, especially if the process is done manually.
- The new data may not easily integrate with the existing dataset, potentially requiring the creation of new tables or the addition of new columns in existing tables. This would also require updates to the data dictionary and other documentation.

Additional Note

While I believe that having more data can help clients make better decisions, it is crucial to fully understand the workflow and the structure of the incoming data in detail.

Sometimes, it may be possible to customize the data structure, naming conventions, or sorting requirements at the beginning of the process. This can save significant time and effort for data engineers in the future, ensuring that data analysts receive clean and well-structured data as quickly as possible.