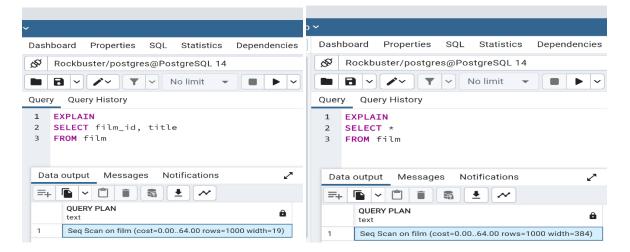
3.4: Database Querying in SQL

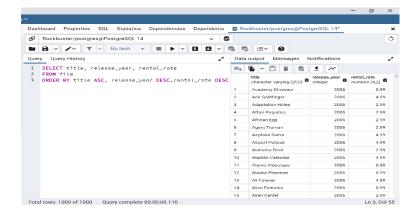
1. Refining Your Query:

- SELECT film_id, title FROM film
- o Compare the cost:

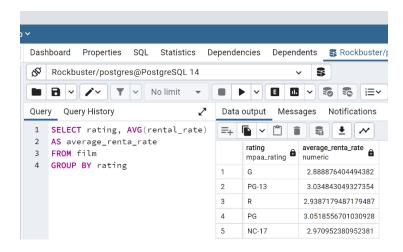


The results show that the cost of running the two queries is the same. However, the second query only targets the intended columns, hence the width of the processed data is shorter than the first. The difference would be magnified when large amounts of data are processed thereby shortening the cost. Optimizing the query can include adding a LIMIT or grouping the data according to the desired outcome.

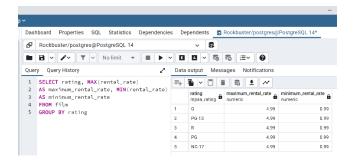
2. Ordering the Data:



- 3. **Grouping Data:** The strategy department has asked you the questions below. Write a SQL query to retrieve the correct answers, then extract your results as a csv file.
 - What is the average rental rate for each rating category?



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



- 4. **Database Migration Procedure:** Carried out by Data Engineers.
 - o Extract: the necessary information from the Android app
 - o Transform: the extracted data is converted into another format.
 - Load: At this point the transformed data is inserted or loaded into the new database.
- **b.** Foreseeable problems include formatting issues and inclusion of irrelevant data.