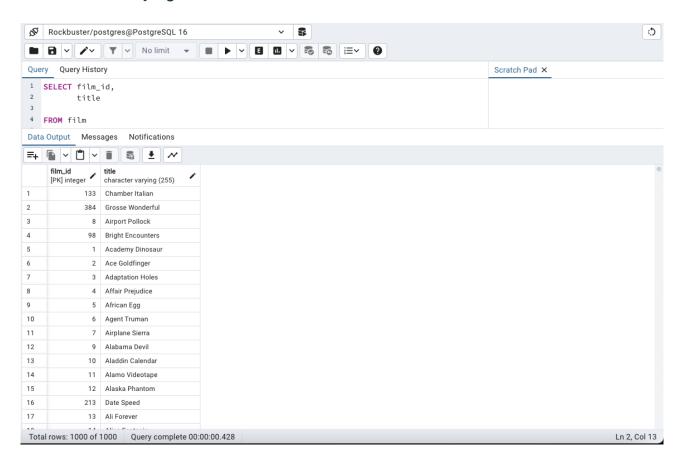
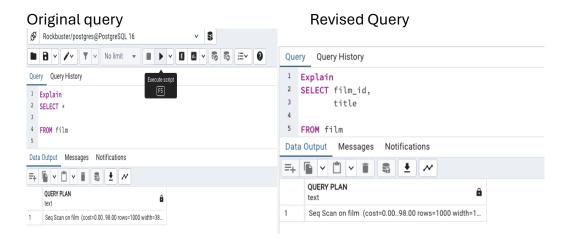
Task 3.4 (answers)

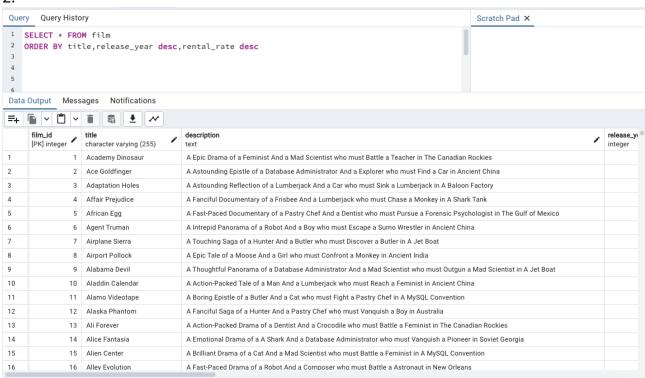
Database Querying in SQL



COST COMPARISON

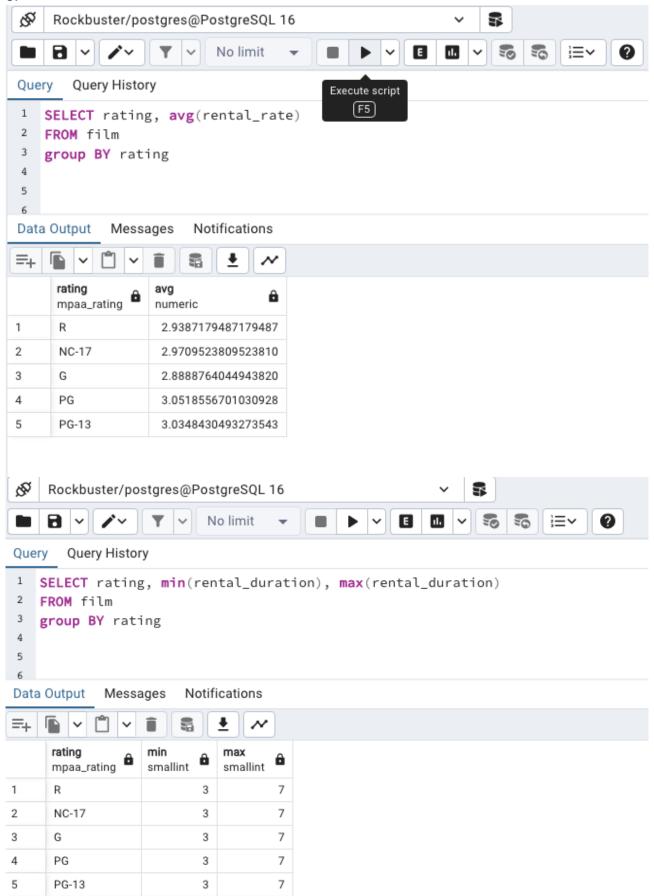


The cost for both queries is identical since they both traverse the entire table and fetch the same number of records (1000 rows). To enhance query performance, limiting the number of rows returned would reduce the query's cost and increase efficiency, especially when extracting only the top few rows of records.



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Procedure for Data Migration and Responsibilities:

The steps for migrating data to the data warehouse are as follows:

- 1-Extracting and Collecting New Data: Data on user behavior in the Rockbuster Android app needs to be extracted and gathered.
- 2-Data Transformation: The extracted data must undergo transformation to align with the format and requirements for loading into the data warehouse.
- 3-Data Loading: The transformed data is loaded into the data warehouse.

Responsibilities for this ETL process primarily fall on data engineers. However, data analysts can assist in coordinating the migration timeline and ensuring data completeness at various stages.

Problems with Analyzing Data Before Loading into the Data Warehouse: Analyzing data prior to loading it into the data warehouse can lead to several issues, including inconsistent, missing, or duplicate values. These issues can result in inaccurate analysis and require additional time and effort to clean the data. This may impact project timelines. Additionally, analyzing raw data takes more time compared to analyzing data from a data warehouse, where queries can be used to extract information efficiently.