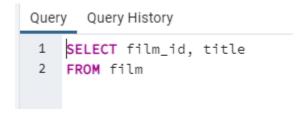
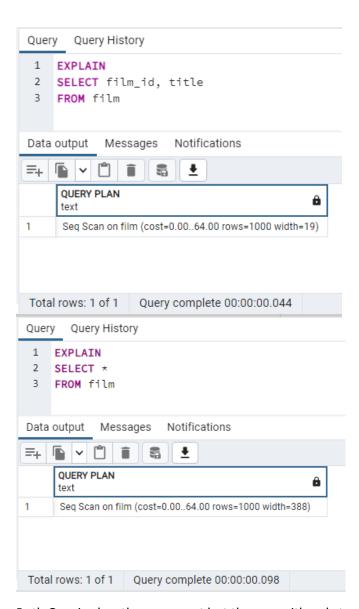
## Achievement 3.4





Both Queries has the same cost but the one with only two columns needed less time to compute than the one that shows all the column. Time to complete a query can be a main factor because more time means more money for labor.

```
Query Query History

1 SELECT *
2 FROM film
3 ORDER BY title ASC, release_year ASC, rental_rate DESC
```

https://drive.google.com/file/d/1xHd5wCB0AWbvm8EqNJI6MzUV8uG9eHja/view?usp=sharing

3)

```
Query Query History

1 SELECT rating, AVG (rental_rate)
2 FROM film
3 GROUP BY rating
```

https://drive.google.com/file/d/1CuDyMNMB0CSyniF0Glluclqlqqrx3nWS/view?usp=sharing

```
Query Query History

1 SELECT rating, MIN (rental_duration), MAX (rental_duration)
2 FROM film
3 GROUP BY rating
```

https://drive.google.com/file/d/1W7IJdude9ZmVSt-R0wByOpbSTkAyLPHY/view?usp=sharing

4)

The procedure of migrating the data is called ETL (Extract, Transform, Load) by an engineer. Firstly is to collect the data, then convert into the data format same as the next database. At last, a completed transformed data will be loaded into the database.

If data is analyzed before loading into the data warehouse, previous data format might be invalid to the new system and cause confusion after data is transferred. Also, data set might be corrupted and ruin the whole data warehouse.