Answers 3.6

3.6: Summarizing & Cleaning Data in SQL

- 1) No duplicates found.

```
Query
       Query History
                                                                           Data Output
    SELECT title,
 1
                                                                               2
            release_year,
 3
            language_id,
                                                                                character v
            rental_duration,
 4
            COUNT(*)
 5
    FROM film
 7
    GROUP BY title,
 8
              release_year,
 9
              language_id,
              rental_duration
10
    HAVING COUNT(*) >1; --no result set means we have no duplicates
11
```



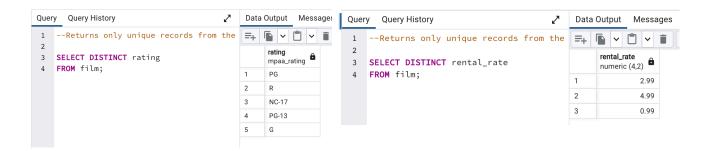
- No missing information found with 2 searches in both Customer and Film.



E.Christian Cotterman Tuesday, 30. May 2023

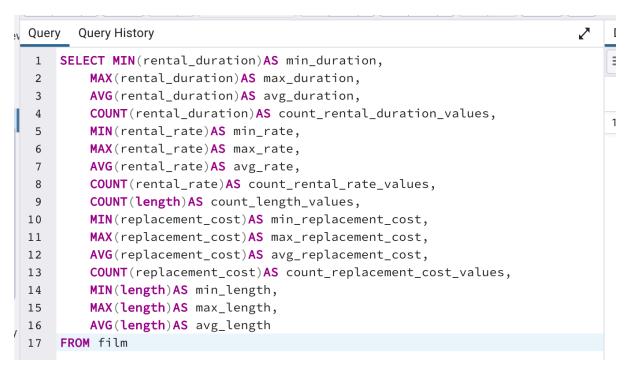


- Using DISTINCT I looked at ratings and rental_rate. There are 5 variables for rating and 3 for rental_rate.

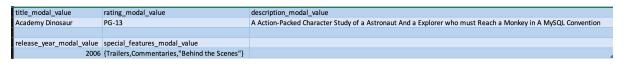


- Cleaning the affected units would require permissions firstly. To change the duplicates, we could GROUP the duplicates.
- —As we would likely not be able to DELETE data, we may be able to add an ACTIVE or INACTIVE filter to the accounts with duplicate names (for Customers).
- —For the missing data, we can use an educated guess for that. (New releases are 4.99; less than 5 years old 2.99; over 5 years old .99¢)

- 2) Film Data summaries.



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min_duration	max_duration	avg_duration	count_rental_duration_values
3	7	4,985	1000
min_rate	max_rate	avg_rate	count_rental_rate_values
0.99	Apr 99	2,98	1000
min_replacement_cost	max_replacement_cost	avg_replacement_cost	count_replacement_cost_values
9,99	29.99	19,98	1000
min_length	max_length	avg_length	count_length_values
46	185	115,27	1000





- 3). I am slowly becoming more comfortable with SQL. Thinking about how to best clean and organise data, Excel seems slightly ahead with its ability to filter the data within each column. If you want PG-13 films from 1994 for example. SQL is easier because I just had to copy-paste the queries one after the other, changing what it was I was looking for, so I could create larger/longer strings. (See the MIN/MAX example). SQL may end up being more useful for me (in the sense of I could use it more easily) than Excel, but I assume it's all about using both daily for long enough to really grasp the strengths and weaknesses of each.