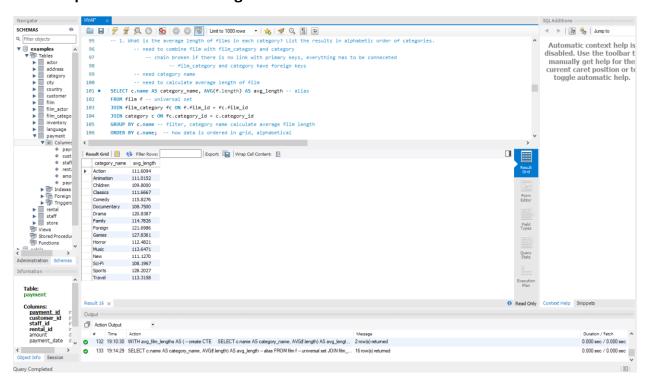
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November 4, 2024

DB Assignment 4

1. What is the average length of films in each category? List the results in alphabetic order of categories.

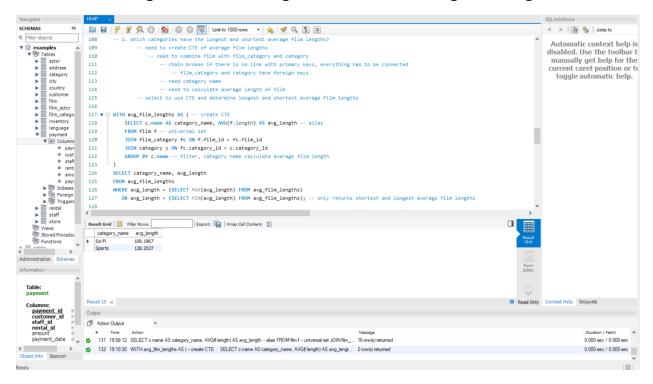


What does query do? How does it solve the problem?

This query can INNER join film with film_category and catagory by utilizing their primary keys and or foreign keys. Inner joins are for exactly which columns we need and are using. Comments on SQL queries also better define what codes represent.

The query nicely lays out the category name on the left and its respective average film length on the right of the table

2. Which categories have the longest and shortest average film lengths?

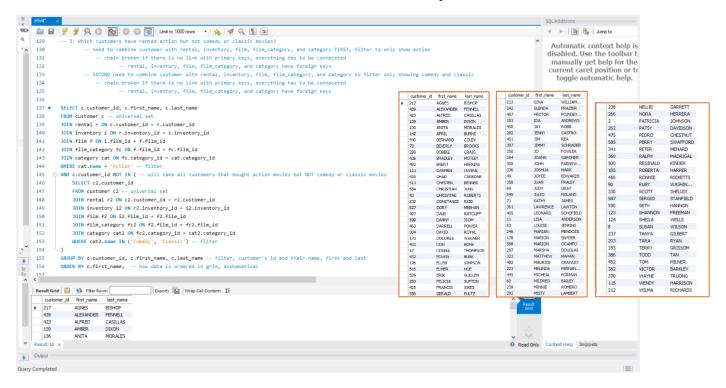


What does query do? How does it solve the problem?

This query creates a CTEs to be able to calculate the longest and shortest average film length by category by joining film with film_category and category. Select is important for determining which movie category has the shortest and longest film lengths. Comments on SQL queries also better define what codes represent.

The query nicely lays out the category name and average film length. It will only return the highest (first one listed) and the lowest (second one listed).

3. Which customers have rented action but not comedy or classic movies?

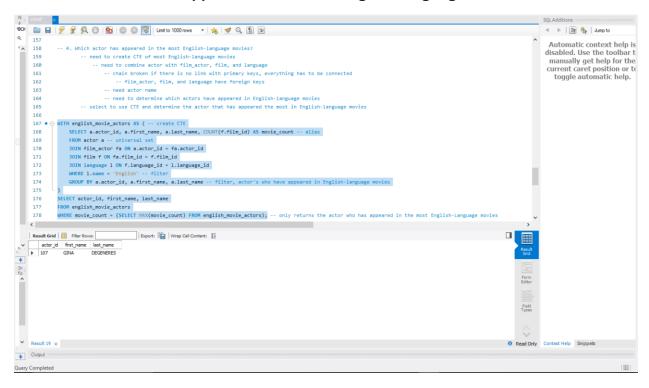


What does query do? How does it solve the problem?

This query can join customer with rental, inventory, film, film_category, and category filter to only show action by utilizing their primary keys and or foreign keys. INNER join is completed twice, once with where clause Action, the other with where clause Comedy and Classic. Command 'AND c.customer_id NOT IN' takes the customer_id of someone who rented an action film and compares it to the table of customers who rented comedy and classic films. It will report customers who only bought action films and not comedy and classic films. Comments on SQL queries also better define what codes represent.

The query nicely lays out the customer id, with their respective first and last name, of who rented action but comedy or classic.

4. Which actor has appeared in the most English-language movies?

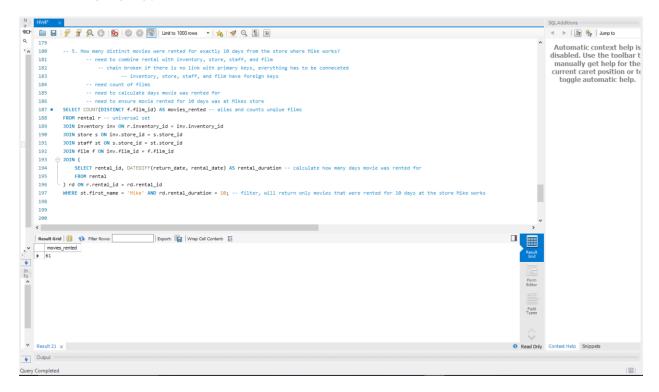


What does query do? How does it solve the problem?

This query creates a CTEs to be able to determine which actor has appeared in the most English-language films by joining actor with film_actor, film, and language. Select is important for determining which actor has the most appearances in these types of films. Comments on SQL queries also better define what codes represent.

The query nicely lays out the actor_id and their respective first and last name. It will only return the actor with the highest amount of appearances

5. How many distinct movies were rented for exactly 10 days from the store where Mike works?

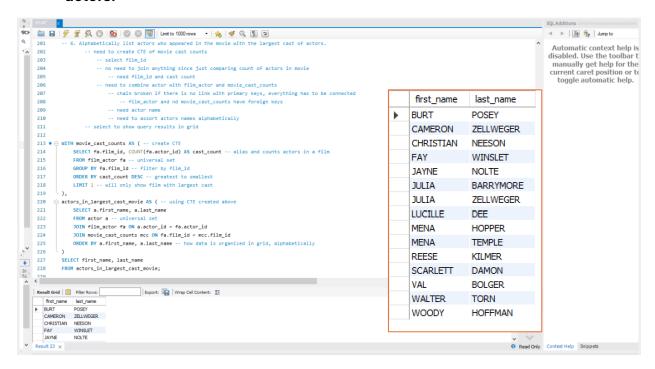


What does query do? How does it solve the problem?

This query can join rental with inventory, store, staff, and film by utilizing their primary keys and or foreign keys. Inner joins are for exactly which columns we need and are using. Comments on SQL queries also better define what codes represent.

The query nicely lays out the movies rented for exactly 10 days from the store Mike works at.

6. Alphabetically list actors who appeared in the movie with the largest cast of actors.



What does query do? How does it solve the problem?

This query creates a CTEs to be able to calculate a movies cast count by calculating the amount of actors in each film. Inner joins are utilized for joining exactly which columns we need and are using. It uses the CTE to determine the names of actors in the largest cast. Select is important to return the first and last name of the actors in the largest movie cast to be returned. Comments on SQL queries also better define what codes represent.

The query nicely lays out the first and last name in alphabetical order of the actors in the movie with the largest cast.