**Assignment 4**

Based on the readings, lecture slides, and materials in the Module 3, answer the below questions and submit via blackboard in a .docx or .pdf format.

To perform this assignment, you will need to use the “Sakila” database that is pre-installed, just like we did in Module 1. Below is an attachment to the Sakila ER Diagram which is also within this module.



Within this database, you will be using tables throughout entire model, and pick the appropriate tables for each question for this assignment. Based on assignment readings and slides, perform each of the following queries from the fil table.

**Guided Queries: For the 5 following questions, your submission will be the query that you would write that would return the needed result**

1. Write a query that returns the Staff ID for the staff member who is involved in the most rentals.

This provides that Mike Hillyer is involved with the most rentals

Query -

Select staff.staff\_id, staff.first\_name, staff.last\_name,

count(\*)

As Total\_Rentals

From rental

Join staff

on staff.staff\_id = rental.staff\_id

Group by staff.staff\_id, staff.first\_name, staff.last\_name

Order by Total\_Rentals DESC LIMIT 1;

Table

Description automatically generated

1. Write a query that returns all the distinct list of film category names.

This will provide all the category names relevant to each film, sorted by the category name & id

Query -

Select

DISTINCT category.category\_id, category.name, film.film\_id, title

From film\_category

Join film

on film.film\_id = film\_category.film\_id

Join category

on category.category\_id = film\_category.category\_id

Table

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1. Write a query that counts the rentals of films, by category, and returns the category name and count of rentals.

SELECT category.category\_id, category.name,

COUNT(rental.rental\_id)

as Count\_Rentals

FROM film\_category

Full JOIN category

ON category.category\_id = film\_category.category\_id

Full JOIN film

ON film.film\_id = film\_category.film\_id

Full JOIN inventory

ON inventory.film\_id = film.film\_id

Full JOIN rental

ON rental.inventory\_id = inventory.inventory\_id

Group By category.name, category.category\_id

A picture containing text, receipt

Description automatically generated

1. Write a query that returns the First\_Name and Last\_Name of each actor, and the count of the number of times their films have been rented.

SELECT actor.first\_name, actor.last\_name,

COUNT(rental.rental\_id)

as Count\_Rentals

FROM film\_actor

Join actor

On actor.actor\_id = film\_actor.actor\_id

JOIN film

ON film.film\_id = film\_actor.film\_id

JOIN inventory

ON inventory.film\_id = film.film\_id

JOIN rental

ON rental.inventory\_id = inventory.inventory\_id

Group By actor.first\_name, actor.last\_name

Table

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1. Write a query that returns the First\_Name and Last\_Name of the actor, and the count of the number of time their film has been rented, of the actor with the most rentals

SELECT actor.first\_name, actor.last\_name,

COUNT(rental.rental\_id)

as Count\_Rentals

FROM film\_actor

Join actor

On actor.actor\_id = film\_actor.actor\_id

JOIN film

ON film.film\_id = film\_actor.film\_id

JOIN inventory

ON inventory.film\_id = film.film\_id

JOIN rental

ON rental.inventory\_id = inventory.inventory\_id

Group By actor.first\_name, actor.last\_name

Order By Count\_Rentals Desc limit 1

Text

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**Query Results: For the 5 following questions, your submission will be the output of the queries.**

1. How many times has an action film been rented?

**1112 times**

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1. How many films has ALICE STEWART rented?

**ALICE STEWART has rented 33 films**

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1. Which customer has rented the most times?

**ELEANOR HUNT has rented 46 films as the most rented customer**

**Graphical user interface, text, application

Description automatically generated**

1. What was the rating of the film been that has been rented the most?

**The most rented film is Bucket Brotherhood**

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1. On what Date did the most money in rentals take place?

**2006-02-14 took place most money rentals with $514.18**

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