**Assignment #3: SQL Part 2 – Advanced Queries**

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| **Submission Instructions****Due: Friday, 2/17/2023, 11:59 pm*** Complete and submit the **answer sheet on page 3** as a word or PDF document through **Canvas>Assignments>To-Do**.
* You can copy and paste the (i) **SQL query** and (ii) the **results** from SQL Workbench.

**Evaluation**Your submission will be graded using two factors:1. A correctly formed **SQL query** that answers the specific question asked (no extra rows or columns).
2. Providing the **correct answer** to the question (the results returned from MySQL Workbench).
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For this assignment, you will be working with the movie rental database, named as “**moviedb**”.



**Questions**

1. How many times has each language been used in films? Return the value for all six languages.
*Display: language name and the number of films*
2. How many actors stared in the film titled “BREAKING HOME”?

*Display: number of actors*

1. Who has rented movies in Japanese language? Return only the first five distinct results in alphabetical order by last name.
(Hints: In the language table, there is a field “name” that contains the film language names.)

*Display: first name and last name*

1. How many different last names exist in the customer table?

*Display: number of unique last names*

1. Who has rented the most movies? How many rentals did s/he do?
(Hint: Assume no ties - there’s only one customer with the highest value.)

*Display: first name, last name and number of rentals*

1. Which are the languages of the movies that Tom Miranda has acted and how many films has he acted in each of those languages?

*Display: language and number of languages*

1. What is (are) the PG-rated movie(s) with the largest replacement cost at store 2? And how much is it (are they)?
(Hint #1. PG-rated movies have rating value equal to ‘PG’;
Hint #2. Use store\_id in the Inventory table;

Hint #3. There may be more than one movie returned.)

*Display: movie title and replacement cost*

1. What is (are) the title(s) and the rental rate of the movie(s) that has (have) the least expensive rental rate among movies acted by Emily Dee?
(Hint: There can be more than one movie)

*Display: movie title, rating, and rental rate*

1. (Bonus question-optional) What is the average of the average rental rate for each movie rating?

(Hint: Find out the average rental rate of each rating and then compute the average of those numbers)

*Display: average of the average rental rate per rating*

(*The bonus points will be added to your final grade of this assignment. There will be no partial credit for this question.*)

**ANSWER SHEET**

**Assignment #3: SQL Part 2 - Getting Data out of the Database**

| **Question** | **SQL Query** | **Results/Answer from MySQL Workbench** |
| --- | --- | --- |
| 1 | How many times has each language been used in films? Return the value for all six languages. |  |  |
| 2 | How many actors stared in the film titled “BREAKING HOME”? |  |  |
| 3 | Who has rented movies in Japanese language? Return only the first five distinct results in alphabetical order by last name. |  |  |
| 4 | How many different last names exist in the customer table? |  |  |
| 5 | Who has rented the most movies? How many rentals did s/he do? |  |  |
| 6 | Which are the languages of the movies that Tom Miranda has acted and how many films has he acted in each of those languages? |  |  |
| 7 | What is (are) the PG-rated movie(s) with the largest replacement cost at store 2? And how much is it (are they)? |  |  |
| 8 | What is (are) the title(s) and the rental rate of the movie(s) that has (have) the least expensive rental rate among movies acted by Emily Dee? |  |  |
| 9 | (optional) What is the average of the average rental rate for each movie rating? |  |  |