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INTRODUCTION TO BUSINESS UNDERSTANDING: HOME ASSIGNMENT

Assignment for submission

LEARNING OUTCOMES

You will be able to:

⭐ write SQL commands to answer specific questions

⭐ use multiple basic SQL commands in one query

⭐ find errors on a SQL code

⭐ write SQL commands to answer business case scenario/ questions

WHAT YOU NEED TO DO

1. Provide the SQL code and the output for this query criterion.

   a. I need the titles and the length of films that start with the letters "S" and "T" and have a replacement rate of 15.99 to 20.99. I need only the first 20 rows starting from the films with the longest running time.

   b. I need the IDs and the titles of films with a running time of less than 100 minutes and replacement costs greater than 15.99. I only need the films with ratings G, PG and PG-13. The output should be ordered by title in ascending order.

2. Why would these SQL syntaxes fail?

   a. **SELECT** * **FROM** film
      WHERE rating = G

   b. **SELECT** customer_id **FROM** film

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3. Answer the following business case scenario/questions. Provide the SQL syntax and output.

   a. There was a discrepancy with a financial report wherein the payment transactions for a customer with customer id #514 was missing. Fortunately, the transactions are still in the database and you were tasked to query the data and provide the payment transactions of customer #514.

   b. As part of the regular media regulations audit, you need to provide your regulations officer the amount of R rated films that the DVD rental store has. How many R rated films does the DVD rental store have?

TIPS AND HINTS

⭐ For assignments 1A and 1B, you will be making use of the AND operator to combine multiple commands. The order in which Postgres parses logical operators is the following:

1 - Code in parentheses () 2 - NOT 3 - AND 4 - OR

If you have several conditions, remember to include parentheses () so that the server knows in which order to evaluate the query.

⭐ For assignments 2A and 2B, try running them in pgAdmin.

⭐ For assignment 3B, try using the COUNT function which we will learn in the next lesson. Feel free to use online resources. There is still a way to get the answer without using the COUNT function.

⭐ Remember to include parentheses () so that the server evaluates the query in the right order: first parentheses, NOT, AND, and lastly, OR. And be careful with the correct application of AND and OR operators.

HOW TO OPEN QUERY TOOL

Right-click the dvdrental database and select Query Tool.

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COMPLETION CRITERIA

⭐ For assignments 1A and 1B, provide the correct SQL code/ syntax as well as a screenshot of the expected output data.

⭐ For assignments 2A and 2B, find all errors in the SQL syntax and provide an explanation why the SQL syntax would error out.

⭐ For assignment 3A, provide correct output data.

⭐ For assignment 3B, provide correct total count.

HOW TO SUBMIT THE TASK

⭐ Assignments (1A and 1B). Write SQL code and make a screenshot of the expected output data.

⭐ Assignments (2A and 2B). Write a text commentary as to why the DQL syntax is in error. Write the correct SQL code for the syntax to work.

⭐ Assignments (3A and 3B). Provide the requested data. Write the syntax you used.

This task needs to be submitted for review.