Assignment 2 (40 points)
Due Date: Monday, January 27, 2020 11:59 PM

Objectives

This assignment focuses on the SELECT statements. The basis for the majority of database interactions is the SELECT statement. A database contains data as values for each field in a database. When that data is processed into useful statements that users can view, it becomes information. The SELECT statement enables the user to retrieve information from the database.

This assignment uses the tables associated with the *bookstore* database. Pay attention to the tables used for each query and the columns to be displayed. Display the columns in the order listed in the task description.

Preliminary

Create the tables for the *bookstore* series of tables first. Download and run the SQL to create and populate the tables. These tables will be used for the next assignments.

Run the following scripts:

- create_schema_bookstore_database.sql
- create_tables_bookstore_database.sql
- insert_data_bookstore_database.sql

Do not include the SQL that I give you to create and populate the tables in the script you turn in for grading. Remember to read your TXT file and check it against the General Assignment Rules.

CS 150A Assignment #2

Spring 2020

Write SQL statements to perform the following queries:

Query 1: Display the product name and description columns from the product table where the category ID column is less than 41.

Query 2: Display the rows from the customer table whose customer ID is not equal to 77779. Display each customer's last name, first name, and customer ID.

Query 3: Display the rows from the customer table where the values in the customer ID column is 88889. Display the customer's last name, first name, customer ID, and email address.

Query 4: Display these column names and data from the orderitems table:

item_id	The item_id column
item_price	The item_price column
discount_amount	The discount_amount column
quantity	The quantity column
price_total	A column that's calculated by multiplying the item price by the quantity
discount_total	A column that's calculated by multiplying the discount the amount by the quantity
item_total	A column that's calculated by subtracting the discount amount from the item price and then multiplying by the quantity

Only return rows where the item_total is greater than 500. Sort the result set by item total in ascending order.

Query 5: Display these columns from the orderitems table:

item_id	The item_id column
order_id	The order_id column
item_price	The item_price column

Only return rows where the item_price is less than 1000. Sort the result set by item price in descending order.

Query 6: Display the customer ID for each customer in the customer table, along with the email address.

Query 7: Display the customer ID from the orders table for each customer who has placed an order with the bookstore. Display each customer ID only once.

Query 8: Display these column names and data from the product table:

product_name	The product_name column
list_price	The list_price column
discount_percent	The discount_percent column
discount_amount	A column that's calculated from the previous two columns
discount_price	A column that's calculated from the previous three columns

Sort the result set by discount price in ascending order. Use the LIMIT clause, so the result set contains only the first 5 rows.

Query 9: Write a SELECT statement that returns one column from the employee table named full_name that joins the last_name and first_name columns.

Format this column with the last name, a comma, space, and the first name like this:

Doe, John

Query 10: Create a mailing list from the address table. The mailing list should display the customer ID, line1, line2, city, state, and zip code for each customer. The city and state should be listed as one column of output, with the values separated by a comma.

Query 11: Display a list of each product name stored in the product table and the category ID in which each product belongs. Reverse the sequence of the columns so that the category of each product is listed first.

Query 12: Display the new list price of each product as 8 % more than the original list price. Display the product_name, list_price, and the new list price.

Submission Instructions:

- For each of the queries above, submit the query and the result from running the query. Please use the provided SQL file to write your submissions.
- You will need to label your assignment with your first initial, last name, and the name of the assignment. **Example:** *hibrahim_assignment2.sql* and *hibrahim_assignment2.txt*
- Zip the files to upload to Canvas. **Example:** *hibrahim_assignment2.zip*
- Submit the zipped file containing the script and output TXT via Canvas.
- Remember to include the query number as a comment at each step.
- Read your output TXT file before you submit it.