COMSATS University Islamabad Lahore Campus

Mid-Term LAB Examination – Fall 2023

Course Title:	Database Systems I		Course Code:	CSC371	CreditHours(3+1)
Course Instructor/s:	Khaqan zaheer		Programme	BS Software Engineering	
Semester:	4ᵗʰ	Batch: SP22	Section: A	Date:	23-10-23
Time Allowed:	90 Minutes			Maximum Marks:	25
Student's Name:			Reg.		

Important Instructions / Guidelines:

- Answer all questions.
- Write your answers concisely.
- You may use SQL commands to retrieve the required information from the given tables.
- Ensure your SQL commands are syntactically correct.
- The tables used for this examination are provided below.
- Save your script file with your full registration number. And make sure it must be submitted within 90 minutes.

Question 1:   [25]

{Blooms Taxonomy Learning Level --Applying   [CLO5] }

1. Retrieve the details of customers who are male and have placed orders with a total amount greater than $500. [3]
2. Find the total number of orders placed in the month of May 2023. [2]
3. List the product categories for products with a price less than $50. [2]
4. Find the customer(s) who have placed the highest number of orders. [2]
5. Retrieve the details of products that have never been ordered. [2]
6. Calculate the average total amount spent on orders for each customer and display the top 5 customers with the highest average spending. [3]
7. List the product names that have been ordered more than 50 times. [2]
8. Find the customers who have placed orders in every category of products. [3]
9. Retrieve the details of orders placed by customers who were born in the same month (excluding the year). [3]
10. List the product categories for products that have never been ordered. [3]

Note:

Upload your script file (queries only with numbers) on google classroom named as:

"Mid-Term – Lab – SP22-BSE-A"

[PTO   for reference tables]

Table 1: Customers

CustomerID	FirstName	LastName	Gender	DateOfBirth
1	John	Doe	Male	1980-05-15
2	Jane	Smith	Female	1990-03-20
3	Mike	Johnson	Male	1975-11-10
4	Sarah	Wilson	Female	1988-09-25

Table 2: Orders

OrderID	CustomerID	OrderDate	TotalAmount
1	1	2023-05-12	750.50
2	2	2023-05-18	420.25
3	3	2023-06-02	630.75
4	4	2023-05-05	890.00

Table 3: Products

ProductID	ProductName	Category	Price
1	Laptop	Electronics	1200.00
2	Smartphone	Electronics	700.00
3	Chair	Furniture	50.00
4	Shirt	Clothing	30.00

Table 4: OrderDetails

OrderDetailID	OrderID	ProductID	Quantity
1	1	1	2
2	1	2	1
3	2	3	4
4	3	2	2
5	3	4	3