National University of Computer and Emerging Sciences

In Lab

"Simple Select Queries, Joins"

Database Systems Lab

Spring 2023

Department of Computer Science
FAST-NU, Lahore, Pakistan

Products

ProductID	ProductName	CategoryID	Price
1	Lays Salted 200mg	1	18
2	Coca Cola 500 ml	1	19
3	Dairy Milk Chocolate 100 mg	2	10
4	Nestle Water Bottle 250ml	2	22
5	Lipton Tea 500 mg	2	21.35
6	Kitkat 100mg	2	25
7	Pears Soap	7	30
8	Coca Cola Diet 500 ml	2	40
9	Sprite 1.5L	6	97
10	Pepsi 1.5L	8	31
11	Dollar Pen	4	21
12	Aquafina Water Bottle 250ml	4	38
13	Notebook	8	6
14	Wallet	7	230
15	Keychain Batman	2	15.5
16	Lu Gala	3	17.45

Orders

OrderID	CustomerID	OrderDate
10248	9	04/07/1996
10249	2	05/07/1996
10250	3	08/07/1996
10251	1	08/07/1996
10252	4	09/07/1996
10253	5	10/07/1996
10254	6	11/07/1996

Order Details

OrderDetailID	OrderID	ProductID	Quantity
1	10248	1	12
2	10248	2	10
3	10248	7	5
4	10249	1	9
5	10249	2	40
6	10250	2	10
7	10250	2	35
8	10250	4	15
9	10251	5	6
10	10251	6	15
11	10251	9	20
12	10252	10	40
13	10252	2	25
14	10252	3	40
15	10253	3	20
16	10253	5	42
17	10253	8	40
18	10254	7	15
19	10254	12	21

Customers

CustomerID	CustomerName	City
1	Furqan	Lahore
2	Ahmad	Lahore
3	Ali	Karachi
4	Hamza	Islamabad
5	Ayesha	Sahiwal
6	Fatima	Lahore
7	Nabeel	Queta
8	Asad	Lahore
9	Imtiaz	Peshawar
10	Kashif	Rawalpindi
11	Hammad	Lahore
12	Burhan	Islamabad
13	Rida	Karachi

Q1. Write a SQL query to retrieve the names of all customers who have placed an order and the names of the products they have ordered.

Q2. Write a SQL query to retrieve the total value of all orders for each customer, along with the customer name.

Q3. Write a SQL query to retrieve the names of customers who have ordered a specific product.

Q4. Write a SQL query to retrieve the names of all products that have been ordered by Ayesha.

Q5. Write a SQL query to retrieve the total number of products ordered by each customer, along with the customer name.

Q6. Write a SQL query to retrieve the total value of all orders for each customer, along with the customer name.

Q7. Write a SQL query to retrieve the total quantity of each product that has been ordered.

Q8. Write a SQL query to retrieve the names of customers who have ordered more than 10 products.