



NATIONAL UNIVERSITY OF MODERN LANGUAGES

Data Base Management Lab Report - 5

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PROGRAM: BSSE (4th Semester)

COURSE: DATA BASE MANAGEMENT

SUBMITTED TO: Sir M Waqar

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Lab Report 5

Task no 1 : Create a database named as Data definition Lab and create following

| | |
|---|---|
| <pre>CREATE TABLE Customer (Customer_ID INT PRIMARY KEY, Customer_Name VARCHAR(35) NOT NULL, Customer_Address VARCHAR(35), Customer_State CHAR(2) NOT NULL);</pre> | <pre>CREATE TABLE Sales_Order (Order_Id INT PRIMARY KEY, Order_Date DATE, Customer_ID INT, FOREIGN KEY (Customer_ID) REFERENCES Customer(Customer_ID));</pre> |
| <pre>CREATE TABLE Products (Product_ID INT PRIMARY KEY, Product_Name VARCHAR(40) UNIQUE, Product_Line_ID INT CHECK (Product_Line_ID >= 10 AND Product_Line_ID <= 100));</pre> | <pre>CREATE TABLE Order_line (Order_ID INT, Product_ID INT, PRIMARY KEY (Order_ID, Product_ID), FOREIGN KEY (Order_ID) REFERENCES Sales_Order(Order_Id), FOREIGN KEY (Product_ID) REFERENCES Products(Product_ID));</pre> |

Q2. Insert 15 to 20 records in the above mentioned tables

| | |
|--|---|
| <pre>INSERT INTO Customer (Customer_ID, Customer_Name, Customer_Address, Customer_State) VALUES (1, 'Ali Khan', '123 Main St', 'PK'), (2, 'Ahmed Iqbal', '456 Elm St', 'PK'), (3, 'Bilal Shah', '789 Oak St', 'PK'), (4, 'Zaid Mahmood', '101 Pine St', 'PK'), (5, 'Imran Farooq', '202 Cedar St', 'PK'), (6, 'Omar Siddiqui', '303 Birch St', 'PK'), (7, 'Tariq Jamil', '404 Maple St', 'PK'), (8, 'Salman Ahmed', '505 Willow St', 'PK'), (9, 'Usman Raza', '606 Redwood St', 'PK'), (10, 'Farhan Yousaf', '707 Cherry St', 'PK');</pre> | <pre>INSERT INTO Sales_Order (Order_Id, Order_Date, Customer_ID) VALUES (1, '2023-01-01', 1), (2, '2023-02-15', 2), (3, '2023-03-20', 3), (4, '2023-04-10', 4), (5, '2023-05-05', 5), (6, '2023-06-18', 6), (7, '2023-07-22', 7), (8, '2023-08-13', 8), (9, '2023-09-14', 9), (10, '2023-10-30', 10);</pre> |
| <pre>INSERT INTO Products (Product_ID, Product_Name, Product_Line_ID) VALUES (1, 'Laptop', 20), (2, 'Smartphone', 30), (3, 'Tablet', 25), (4, 'Monitor', 40), (5, 'Keyboard', 15), (6, 'Mouse', 18), (7, 'Printer', 35), (8, 'Scanner', 22), (9, 'Headset', 50), (10, 'Webcam', 60);</pre> | <pre>INSERT INTO Order_line (Order_ID, Product_ID) VALUES (1, 1), (1, 2), (2, 3), (2, 4), (3, 5), (3, 6), (4, 7), (4, 8), (5, 9), (5, 10), (6, 1), (6, 2), (7, 3), (7, 4), (8, 5), (8, 6), (9, 7), (9, 8), (10, 9);</pre> |

Output :

100 %

| | Customer_Name | Customer_Address |
|----|---------------|------------------|
| 1 | Ali Khan | 123 Main St |
| 2 | Ahmed Iqbal | 456 Elm St |
| 3 | Bilal Shah | 789 Oak St |
| 4 | Zaid Mahmood | 101 Pine St |
| 5 | Imran Farooq | 202 Cedar St |
| 6 | Omar Siddiqui | 303 Birch St |
| 7 | Tariq Jamil | 404 Maple St |
| 8 | Salman Ahmed | 505 Willow St |
| 9 | Usman Raza | 606 Redwood St |
| 10 | Farhan Yousaf | 707 Cherry St |

100 %

| | Order_Id | Order_Date | Customer_Name |
|----|----------|------------|---------------|
| 1 | 1 | 2023-01-01 | Ali Khan |
| 2 | 2 | 2023-02-15 | Ahmed Iqbal |
| 3 | 3 | 2023-03-20 | Bilal Shah |
| 4 | 4 | 2023-04-10 | Zaid Mahmood |
| 5 | 5 | 2023-05-05 | Imran Farooq |
| 6 | 6 | 2023-06-18 | Omar Siddiqui |
| 7 | 7 | 2023-07-22 | Tariq Jamil |
| 8 | 8 | 2023-08-13 | Salman Ahmed |
| 9 | 9 | 2023-09-14 | Usman Raza |
| 10 | 10 | 2023-10-30 | Farhan Yousaf |

100 %

| | Product_Name | Product_Line_ID |
|---|--------------|-----------------|
| 1 | Laptop | 20 |
| 2 | Smartphone | 30 |
| 3 | Tablet | 25 |
| 4 | Monitor | 40 |
| 5 | Keyboard | 15 |
| 6 | Mouse | 18 |
| 7 | Printer | 35 |
| 8 | Scanner | 22 |
| 9 | Headset | 50 |

100 %



Results



Messages

| | Order_Id | Product_Name |
|----|----------|--------------|
| 1 | 1 | Laptop |
| 2 | 1 | Smartphone |
| 3 | 2 | Tablet |
| 4 | 2 | Monitor |
| 5 | 3 | Keyboard |
| 6 | 3 | Mouse |
| 7 | 4 | Printer |
| 8 | 4 | Scanner |
| 9 | 5 | Headset |
| 10 | 5 | Webcam |
| 11 | 6 | Laptop |
| 12 | 6 | Smartphone |
| 13 | 7 | Tablet |
| 14 | 7 | Monitor |
| 15 | 8 | Keyboard |
| 16 | 8 | Mouse |
| 17 | 9 | Printer |
| 18 | 9 | Scanner |
| 19 | 10 | Headset |