**Practice Exercises**

**Exercise #1**

Create two tables (Customer and Order) in SQL as specified below.

Customer

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Constraint** | **Data Type** |
| CustomerID | Primary Key | Number |
| CustomerName | Not Null | Varchar with size 30 |
| City |  | Varchar with size 40 |
| State |  | Varchar with size 40 |

Order

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Constraint** | **Data Type** |
| OrderID | Primary Key | Number |
| CustomerID | Foreign Key | Number |
| OrderItem | Not Null | Varchar with size 30 |
| OrderDate |  | Date |
| Quantity | Check (Qty lesser than 5) | Number |
| Price |  | Number |

**Exercise #2:**

Write Insert queries to insert the below data into the tables respectively.

**Customer:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Customer ID** | **Customer Name** | **City** | **State** |
| 101 | Alexa | Bangalore | Karnataka |
| 102 | Sify | Chennai | Tamil Nadu |
| 103 | Tom | Bangalore | Karnataka |
| 104 | Stephy | Bangalore | Karnataka |
| 105 | Sam | Chennai | Tamil Nadu |

**Order:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **OrderID** | **CustomerID** | **OrderItem** | **OrderDate** | **Quantity** | **Price** |
| 1075 | 101 | ItemB | 2019-02-23 | 2 | 250 |
| 1076 | 105 | ItemA | 2019-04-15 | 4 | 370 |
| 1077 | 103 | ItemC | 2019-04-02 | 1 | 150 |
| 1078 | 101 | ItemB | 2019-05-20 | 3 | 550 |
| 1079 | 103 | ItemC | 2019-06-23 | 2 | 300 |

Write a join query to display details of all the customers who placed an order and the details of the orders they placed.

**Exercise #3**

Write a SQL query to display list of all orders with customer information like customer Name, City and State.

**Exercise #4**

Create a stored procedure “spGetCustList” to display all records from the customer table.

**Exercise #5**

Create a stored procedure “spInsertCust” to insert CustomerId, Name, City, State into customer table.

**Exercise #6**

Create a stored procedure “spUpdateOrder” to update orderitem, date, qty and price in Order table.

**Exercise #7**

Create a stored procedure “spdeleteById” to delete customer record by id.

**Exercise #8**

Create view “CustView” on customer table to display details of customers where city is Bangalore.

**Exercise #9**

Create view “CustOrderView” which displays all customer details with Orderid, OrderDate who has placed an order.