Assignment 1

TechShop an electronic gadget shop

Task1:

1.

2&4.

```
16  ●  ⊖  create table Products(
17             ProductID int primary key,
18             ProductName varchar(255),
19             Description text,
20             Price decimal(10,2)
21         );
22
23  ●  ⊖  create table Orders(
24             OrderID int primary key,
25             CustomerID int,
26             OrderDate date,
27             TotalAmount decimal(10,2),
28             foreign key(CustomerID) references Customers(CustomerID)
29         );
30
31  ●  ⊖  create table OrderDetails(
32             OrderDetailID int primary key,
33             OrderID int,
34             ProductID int,
35             Quantity int,
36             foreign key(OrderID) references Orders(OrderId),
37             foreign key(ProductID) references Products(ProductID)
38         );
39
40  ●  ⊖  create table Inventory(
41             InventoryID int primary key,
42             ProductID int,
43             QuantityInStock int,
44             LastStockUpdate datetime,
45             foreign key(ProductID) references Products(ProductID)
46         );
```

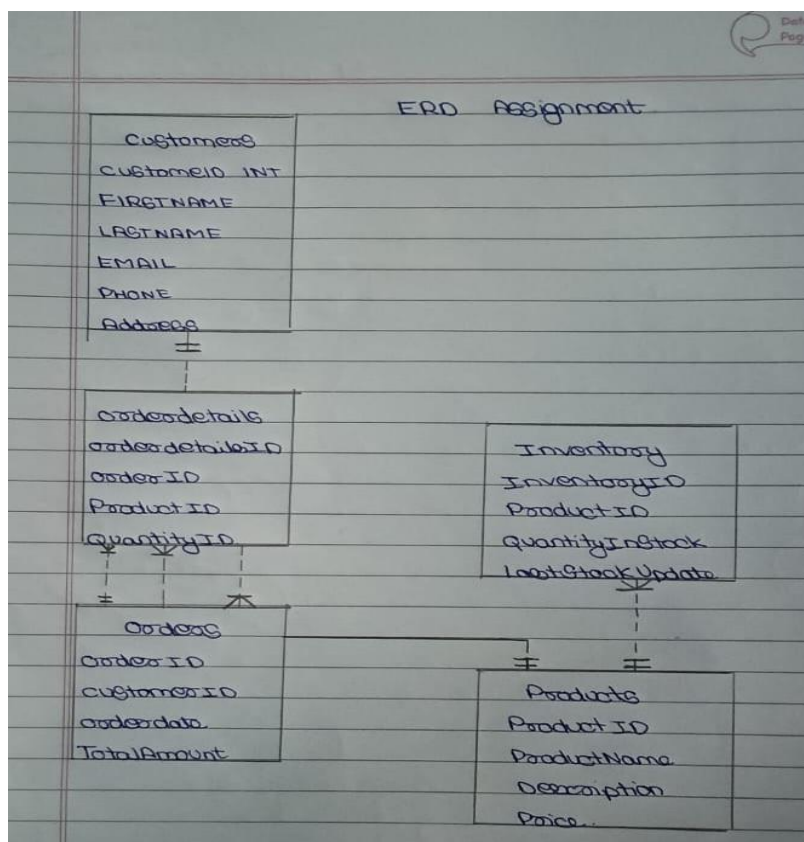|				
✓	3 15:07:56	create table Customers(CustomerID int primary key, FirstName text, LastName text, Email varchar(50), P... 0 row(s) affected		0.031 sec
✓	4 15:10:15	create table Products(ProductID int primary key, ProductName varchar(255), Description text, Price decim... 0 row(s) affected		0.031 sec
✓	5 15:10:33	create table Orders(OrderID int primary key, CustomerID int, OrderDate date, TotalAmount decimal(10,2), ... 0 row(s) affected		0.046 sec
✓	6 15:10:37	create table OrderDetails(OrderDetailID int primary key, OrderID int, ProductID int, Quantity int, foreign k... 0 row(s) affected		0.063 sec
✓	7 15:10:41	create table Inventory(InventoryID int primary key, ProductID int, QuantityInStock int, LastStock Update d... 0 row(s) affected		0.047 sec

3.

5.

```
Limit to 1000 rows

48  ●   insert into Customers values
49          (1,  Execute the statement under the keyboard cursor  jalgaon'),
50          (2,'Rohit','Rajput','rohit@gmail.com','1234567890','102 mumbai'),
51          (3,'Rushi','Shete','rushi@gmail.com','1234567089','103 pune'),
52          (4,'tejal','Chaudhari','tejal@gmail.com','1234568905','104 nagpur'),
53          (5,'priya','Chaudhari','priya@gmail.com','1234567823','105 jalgaon'),
54          (6,'Pranjal','Wani','pranjal@gmail.com','1235467890','106 navi mumbai'),
55          (7,'bhavesh','madhse','bhavesh@gmail.com','2134567890','107 kalyan'),
56          (8,'Shubham','Mane','shubham@gmail.com','1234765890','108 dombivili'),
57          (9,'Mihir','Mahajan','mihir@gmail.com','1234598590','109 Airoli'),
58          (10,'Harshal','Rane','harshal@gmail.com','4321567890','110 jalgaon');
59
60  ●   INSERT INTO Products VALUES
61          (1, 'External Hard Drive', '1TB hard drive', 83.59),
62          (2, 'Wireless Router', 'dual-band router', 120.99),
63          (3, 'Tablet', '10-inch tablet with long battery', 199.99),
64          (4, 'Printer', 'Wireless all-in-one printer', 195.99),
65          (5, 'Smartwatch', 'Fitness tracker having heart rate monitor', 149.99),
66          (6, 'Laptop', 'High-performance laptop', 999.99),
67          (7, 'Headphones', 'headphones with Bluetooth', 179.99),
68          (8, 'Camera', 'Digital camera with 20MP', 501.99),
69          (9, 'Desktop Computer', 'Powerful desktop ', 1399.99),
70          (10, 'Smartphone', 'Latest model with dual cameras', 799.99);
71
72  ●   INSERT INTO Orders VALUES
73          (1, 1, '2024-01-01', 1399.98),
74          (2, 2, '2024-02-01', 699.99),
75          (3, 3, '2024-03-01', 899.95),
76          (4, 4, '2024-04-01', 649.97),
77          (5, 5, '2024-05-01', 559.98),
78          (6, 6, '2024-06-01', 3299.97),
79          (7, 7, '2024-07-01', 699.98),
80          (8, 8, '2024-08-01', 999.99),
81          (9, 9, '2024-09-01', 179.98),
82          (10, 10, '2024-10-01', 899.99);
83
```

```
83
84  ●   INSERT INTO OrderDetails VALUES
85          (1, 1, 1, 2),
86          (2, 1, 2, 1),
87          (3, 2, 3, 1),
88          (4, 2, 4, 2),
89          (5, 3, 5, 3),
90          (6, 3, 6, 1),
91          (7, 4, 7, 1),
92          (8, 5, 9, 2),
93          (9, 6, 8, 1),
94          (10, 7, 10, 1);
95
96  ●   INSERT INTO Inventory VALUES
97          (1, 1, 50, '2024-01-01 09:00:00'),
98          (2, 2, 100, '2024-02-01 11:30:00'),
99          (3, 3, 75, '2024-03-01 13:45:00'),
100         (4, 4, 30, '2024-04-01 12:15:00'),
101         (5, 5, 80, '2024-05-01 15:45:00'),
102         (6, 6, 20, '2024-06-01 19:00:00'),
103         (7, 7, 40, '2024-07-01 22:15:00'),
104         (8, 8, 15, '2024-08-01 21:30:00'),
105         (9, 9, 60, '2024-09-01 01:25:00'),
106         (10, 10, 25, '2024-10-01 03:00:00');
107
```

Task2:

1.

2.

3.


```
123
124
125 •   /*3*/INSERT INTO Customers (CustomerID, FirstName, LastName, Email, Phone, Address)
126     VALUES (11, 'Shryash', 'Zope', 'shreyash@example.com', '1253689740', '111 Nashik');
127
128
129
130
131
132
```

#	Time	Action	Message	Duration / Fetch
1	15:36:49	select FirstName, Email from customers LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
2	15:37:52	select Orders.orderID, Customers.FirstName,Customers.LastName,Orders.OrderDate from orders left join Custom...	10 row(s) returned	0.000 sec / 0.000 sec
3	15:39:22	INSERT INTO Customers (CustomerID, FirstName, LastName, Email, Phone, Address) VALUES (11, 'Shryash', 'Z...	1 row(s) affected	0.015 sec

4.


```
133
134     /*4*/
135 •   Update Products SET Price = Price*1.10;
136 •   select * from products;
137
138
139
140
```

ProductID	ProductName	Description	Price
1	External Hard Drive	1TB hard drive	91.95
2	Wireless Router	dual-band router	133.09
3	Tablet	10-inch tablet with long battery	219.99
4	Printer	Wireless all-in-one printer	215.59
5	Smartwatch	Fitness tracker having heart rate monitor	164.99
6	Laptop	High-performance laptop	1099.99
7	Headphones	headphones with Bluetooth	197.99

#	Time	Action	Message	Duration / Fetch
1	15:36:49	select FirstName, Email from customers LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
2	15:37:52	select Orders.orderID, Customers.FirstName,Customers.LastName,Orders.OrderDate from orders left join Custom...	10 row(s) returned	0.000 sec / 0.000 sec
3	15:39:22	INSERT INTO Customers (CustomerID, FirstName, LastName, Email, Phone, Address) VALUES (11, 'Shryash', 'Z...	1 row(s) affected	0.015 sec
4	15:40:32	Update Products SET Price = Price*1.10	10 row(s) affected, 10 warning(s): 1265 Data truncated for column 'Price' at row 1 1265 Data truncated for colum...	0.000 sec
5	15:40:45	select * from products LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

5.


```
139
140
141  •   /*5*/ Delete from orderdetails where OrderID=1;
142  •   DELETE FROM Orders
143      WHERE OrderID = 1;
144
145
146
```

#	Time	Action	Message	Duration / Fetch
1	15:44:00	Delete from orderdetails where OrderID=1	2 row(s) affected	0.000 sec
2	15:44:02	DELETE FROM Orders WHERE OrderID = 1	1 row(s) affected	0.015 sec

6.


```
145
146
147
148  •   /*6*/ INSERT INTO Orders
149      VALUES (1 , 1, '2024-12-01', 299.99);
150
151
152
```

#	Time	Action	Message	Duration / Fetch
1	15:45:06	INSERT INTO Orders VALUES (1 , 1, '2024-12-01', 299.99)	1 row(s) affected	0.000 sec

7.


```
151
152
153
154  •   /*7*/ UPDATE Customers
155      SET Email = 'addemail@gmail.com',
156      Address = 'add info example'
157      WHERE CustomerID = 1;
158
```

#	Time	Action	Message	Duration / Fetch
1	15:45:52	UPDATE Customers SET Email = 'addemail@gmail.com', Address = 'add info example' WHERE CustomerID = 1	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.015 sec

8.

```
160
161
162 •    /*8*/ UPDATE Orders
163 ⊖        SET TotalAmount = (
164            SELECT SUM(OrderDetails.Quantity * Products.Price)
165            FROM OrderDetails
166            JOIN Products ON OrderDetails.ProductID = Products.ProductID
167            WHERE OrderDetails.OrderID = Orders.OrderID
168        );
```

#	Time	Action	Message	Duration / Fetch
✓	1 15:47:17	UPDATE Orders SET TotalAmount = (SELECT SUM(OrderDetails.Quantity * Products.Price) FROM OrderDe...	10 row(s) affected Rows matched: 10 Changed: 10 Warnings: 0	0.016 sec

9.

```
172
173 •    /*9*/ DELETE FROM OrderDetails
174        WHERE OrderID IN (SELECT OrderID FROM Orders WHERE CustomerID = 1);
175
176 •    DELETE FROM Orders
177        WHERE CustomerID = 1;
178
179
180
```

#	Time	Action	Message	Duration / Fetch
✓	1 15:48:02	DELETE FROM OrderDetails WHERE OrderID IN (SELECT OrderID FROM Orders WHERE CustomerID = 1)	0 row(s) affected	0.000 sec
✓	2 15:48:44	DELETE FROM Orders WHERE CustomerID = 1	1 row(s) affected	0.000 sec

10.

```
178
179
180 •    /*10*/ ALTER TABLE Products
181        ADD Category VARCHAR(255);
182
183 •    INSERT INTO Products (ProductID, ProductName, Description, Price, Category)
184        VALUES (12, 'New Electronic Gadget', 'Description of the new gadget', 399.99, 'Electronic Gadget');
185
186
```

#	Time	Action	Message	Duration / Fetch
✓	1 15:48:02	DELETE FROM OrderDetails WHERE OrderID IN (SELECT OrderID FROM Orders WHERE CustomerID = 1)	0 row(s) affected	0.000 sec
✓	2 15:48:44	DELETE FROM Orders WHERE CustomerID = 1	1 row(s) affected	0.000 sec
✓	3 15:49:45	ALTER TABLE Products ADD Category VARCHAR(255)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.032 sec
✓	4 15:49:53	INSERT INTO Products (ProductID, ProductName, Description, Price, Category) VALUES (12, 'New Electronic G...	1 row(s) affected	0.000 sec

11.


```
186
187 •   /*11*/ ALTER TABLE Orders
188     ADD Status VARCHAR(50);
189
190 •   UPDATE Orders
191     SET Status = 'Shipped'
192     WHERE OrderID = 2;
193
194
```

#	Time	Action	Message	Duration / Fetch
1	15:51:00	ALTER TABLE Orders ADD Status VARCHAR(50)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.031 sec
2	15:51:02	UPDATE Orders SET Status = 'Shipped' WHERE OrderID = 2	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.000 sec

12.


```
200     /*12 */
201 •   alter table customers add column Ordernumbers text;
202
203 •   UPDATE Customers
204   ⊖ SET Ordernumbers = (
205         SELECT COUNT(OrderID)
206         FROM Orders
207         WHERE Orders.CustomerID = Customers.CustomerID
208     );
209
```

#	Time	Action	Message	Duration / Fetch
1	15:54:14	UPDATE Customers SET Ordernumbers = (SELECT COUNT(OrderID) FROM Orders WHERE Orders.Cus...	11 row(s) affected Rows matched: 11 Changed: 11 Warnings: 0	0.015 sec

TASK3:

1.

2.

3.

4.

5.

6.

7.

```
46
47     /*7th question*/
48  •  SELECT  Orders.OrderID, OrderDate, TotalAmount, FirstName, LastName
49     FROM Orders
50     JOIN Customers ON Orders.CustomerID = Customers.CustomerID
51     ORDER BY TotalAmount DESC   limit 1;
52
53
```

OrderID	OrderDate	TotalAmount	FirstName	LastName
5	2024-05-01	3079.98	priya	Chaudhari

#	Time	Action	Message	Duration / Fetch
1	16:07:20	SELECT Orders.OrderID, OrderDate, TotalAmount, FirstName, LastName FROM Orders JOIN Customers ON Or...	1 row(s) returned	0.000 sec / 0.000 sec

8.

```
55
56     /*8th question*/
57  •  SELECT Products.ProductID, ProductName, COUNT(OrderDetails.OrderID) AS numberoftime
58     FROM Products
59     LEFT JOIN OrderDetails ON Products.ProductID = OrderDetails.ProductID
60     GROUP BY Products.ProductID, ProductName;
61
62
```

ProductID	ProductName	numberoftime
1	External Hard Drive	0
2	Wireless Router	0
3	Tablet	1
4	Printer	1
5	Smartwatch	1
6	Laptop	1
7	Headphones	1
8	Camera	1
9	Desktop Computer	1

#	Time	Action	Message	Duration / Fetch
1	16:08:22	SELECT Products.ProductID, ProductName, COUNT(OrderDetails.OrderID) AS numberoftime FROM Products L...	11 row(s) returned	0.000 sec / 0.000 sec

9.

```
63    /*9th question*/
64  ● SELECT Customers.CustomerID, FirstName, LastName, Email, Phone, Address
65    FROM Customers
66    JOIN Orders ON Customers.CustomerID = Orders.CustomerID
67    JOIN OrderDetails ON Orders.OrderID = OrderDetails.OrderID
68    JOIN Products ON OrderDetails.ProductID = Products.ProductID
69    WHERE Products.ProductName = 'Laptop';
70
```

CustomerID	FirstName	LastName	Email	Phone	Address
3	Rushi	Shete	rushi@gmail.com	1234567089	103 pune

#	Time	Action	Message	Duration / Fetch
● 1	16:09:15	SELECT Customers.CustomerID, FirstName, LastName, Email, Phone, Address FROM Customers JOIN Orders O...	1 row(s) returned	0.000 sec / 0.000 sec

10.

```
69    WHERE Products.ProductName = 'Laptop';
70
71
72
73    /*10th question*/
74  ● SELECT SUM(TotalAmount) AS TotalRevenue
75    FROM Orders
76    WHERE OrderDate BETWEEN '2023-10-01' AND '2024-10-01';
```

TotalRevenue
6956.28

#	Time	Action	Message	Duration / Fetch
● 1	16:10:10	SELECT SUM(TotalAmount) AS TotalRevenue FROM Orders WHERE OrderDate BETWEEN '2023-10-01' AND...	1 row(s) returned	0.000 sec / 0.000 sec