

Assignment 1

TechShop an electronic gadget shop

Task1:

1.

The screenshot shows the SQL Server Enterprise Manager interface. The main window displays the following SQL script:

```
1 create database techshop;
2 use techshop;
```

The right-hand pane shows the 'SQL Additions' tab with 'My Snippets' listed. The bottom pane shows the 'Output' window with the following results:

| # | Time | Action | Message | Duration / Fetch |
|---|----------|--------------------------|-------------------|------------------|
| 1 | 15:02:20 | create database techshop | 1 row(s) affected | 0.000 sec |
| 2 | 15:02:24 | use techshop | 0 row(s) affected | 0.000 sec |

2&4.

The screenshot shows the SQL Server Enterprise Manager interface. The main window displays the following SQL script:

```
4 create table Customers(
5     CustomerID int primary key,
6     FirstName text,
7     LastName text,
8     Email varchar(50),
9     Phone varchar(15),
10    Address varchar(255)
11 );
```

The right-hand pane shows the 'SQL Additions' tab with 'My Snippets' listed. The bottom pane shows the 'Output' window with the following results:

| # | Time | Action | Message | Duration / Fetch |
|---|----------|---|-------------------|------------------|
| 1 | 15:02:20 | create database techshop | 1 row(s) affected | 0.000 sec |
| 2 | 15:02:24 | use techshop | 0 row(s) affected | 0.000 sec |
| 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 |

```

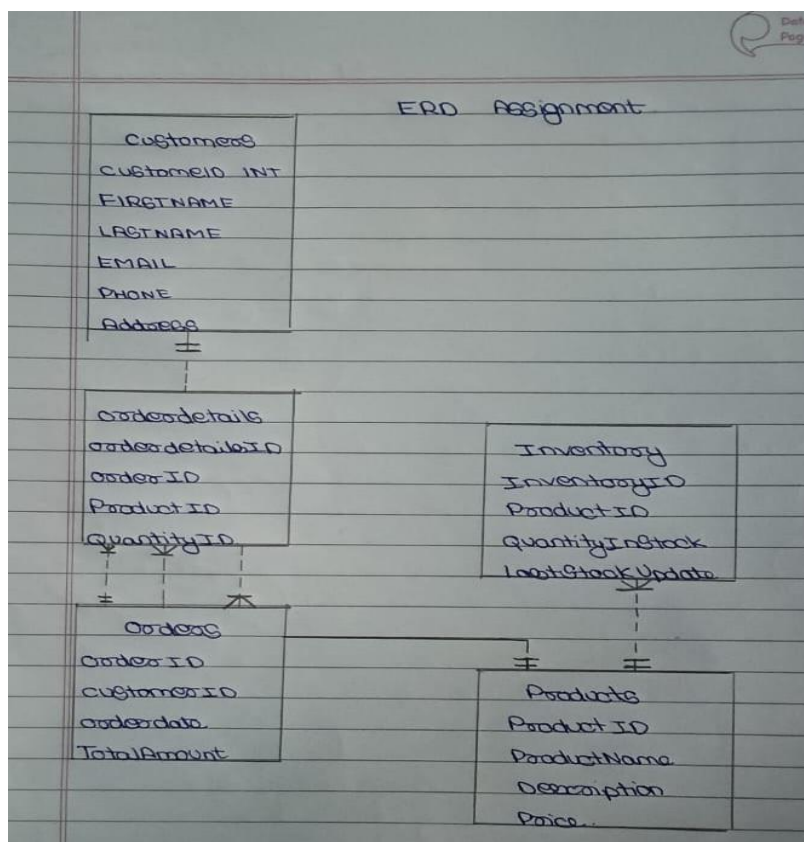
Task2*
Limit to 1000 rows

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, LastStockUpdate d... | 0 row(s) affected | 0.047 sec |

3.



5.

```
Task2
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', '1234567890', '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', '1234567890', '106 navi mumbai'),
55 (7, 'bhavesh', 'madhse', 'bhavesh@gmail.com', '2134567890', '107 kalyan'),
56 (8, 'Shubham', 'Mane', 'shubham@gmail.com', '1234765890', '108 donbivili'),
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', 83.99),
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
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
```

| Output | | | | |
|---------------|----------|---|--|------------------|
| Action Output | | | | |
| # | Time | Action | Message | Duration / Fetch |
| 1 | 15:31:40 | insert into Customers values (1,'Rohan','Chaudhari','rohan@gmail.com','1234567890','101 jaigaon'), (2,'Rohit','R... | 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0 | 0.000 sec |
| 2 | 15:31:45 | INSERT INTO Products VALUES (1, 'External Hard Drive', '1TB hard drive', 83.59), (2, 'Wireless Router', 'dual-ba... | 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0 | 0.000 sec |
| 3 | 15:31:48 | INSERT INTO Orders VALUES (1, 1, '2024-01-01', 1399.99), (2, 2, '2024-02-01', 699.99), (3, 3, '2024-03-01', 899.... | 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0 | 0.015 sec |
| 4 | 15:32:03 | INSERT INTO OrderDetails VALUES (1, 1, 1, 2), (2, 1, 2, 1), (3, 2, 3, 1), (4, 2, 4, 2), (5, 3, 5, 3), (6, 3, 6, 1), (7, 4, 7... | 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0 | 0.016 sec |
| 5 | 15:32:06 | INSERT INTO Inventory VALUES (1, 1, 50, '2024-01-01 09:00:00'), (2, 2, 100, '2024-02-01 11:30:00'), (3, 3, 75, '2... | 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0 | 0.000 sec |

Task2:

1.

Task2

Limit to 1000 rows

107

/* TASK2 select where , between and like*/

select * from orderdetails;

/*1*/

select FirstName, Email from customers;

Result Grid

Filter Rows:

Exports

Wrap Cell Contents

| FirstName | Email |
|-----------|-------------------|
| Rohan | rohan@gmail.com |
| Rohit | rohit@gmail.com |
| Rushi | rushi@gmail.com |
| tejal | tejal@gmail.com |
| priya | priya@gmail.com |
| Pranjal | pranjal@gmail.com |

customers 1 x

Read Only

Context Help

Snippets

Output

Action Output

| # | 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.

Task2

Limit to 1000 rows

117

118

119

/*2*/ select Orders.orderID, Customers.FirstName,Customers.LastName,Orders.OrderDate from orders

left join Customers on Customers.CustomerID = Orders.CustomerID ;

123

124

Result Grid

Filter Rows:

Exports

Wrap Cell Contents

| orderID | FirstName | LastName | OrderDate |
|---------|-----------|-----------|------------|
| 1 | Rohan | Chaudhari | 2024-01-01 |
| 2 | Rohit | Rajput | 2024-02-01 |
| 3 | Rushi | Shete | 2024-03-01 |
| 4 | tejal | Chaudhari | 2024-04-01 |
| 5 | priya | Chaudhari | 2024-05-01 |
| 6 | Pranjal | Wani | 2024-06-01 |

Result 2 x

Read Only

Context Help

Snippets

Output

Action Output

| # | 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.

The screenshot shows the SQL Developer interface with a task window titled 'Task2'. The SQL editor contains the following code:

```
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
```

The right sidebar shows 'SQLAdditions' with 'My Snippets'.

The 'Output' window shows the 'Action Output' table:

| # | 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.

The screenshot shows the SQL Developer interface with a task window titled 'Task2'. The SQL editor contains the following code:

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

The right sidebar shows 'SQLAdditions' with 'My Snippets'.

The 'Result Grid' shows the following data:

| 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 |

The 'Output' window shows the 'Action Output' table:

| # | 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.

Task2

Limit to 1000 rows

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

SQLAdditions

My Snippets

Context Help Snippets

Output

Action Output

| # | 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.

Task2

Limit to 1000 rows

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

SQLAdditions

My Snippets

Context Help Snippets

Output

Action Output

| # | 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.

Task2

Limit to 1000 rows

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

SQLAdditions

My Snippets

Context Help Snippets

Output

Action Output

| # | 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.

The screenshot shows the SQL Server Enterprise Manager interface. The main pane displays an SQL script with the following code:

```
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 );
```

The right pane shows the 'SQLAdditions' tab with 'My Snippets'.

The 'Output' pane at the bottom shows the execution results:

| # | 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.

The screenshot shows the SQL Server Enterprise Manager interface. The main pane displays an SQL script with the following code:

```
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
```

The right pane shows the 'SQLAdditions' tab with 'My Snippets'.

The 'Output' pane at the bottom shows the execution results:

| # | 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.

The screenshot shows the SQL Server Enterprise Manager interface. The main pane displays an SQL script with the following code:

```
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
```

The right pane shows the 'SQLAdditions' tab with 'My Snippets'.

The 'Output' pane at the bottom shows the execution results:

| # | 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.

The screenshot shows a SQL script in a window titled "Task2". The script contains the following SQL statements:

```
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
```

The Output pane shows the execution results:

| # | 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.

The screenshot shows a SQL script in a window titled "Task2". The script contains the following SQL statements:

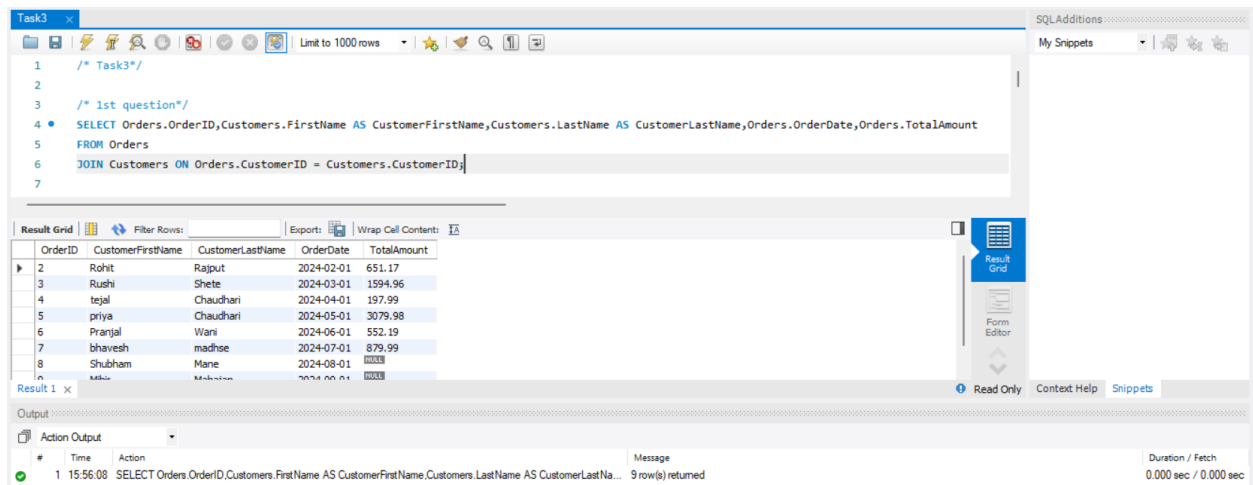
```
200 /*12 */
201 alter table customers add column OrderNumbers text;
202
203 UPDATE Customers
204 SET OrderNumbers = (
205 SELECT COUNT(OrderID)
206 FROM Orders
207 WHERE Orders.CustomerID = Customers.CustomerID
208 );
209
```

The Output pane shows the execution results:

| # | 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.



Task3

```
1 /* Task3*/
2
3 /* 1st question*/
4 • SELECT Orders.OrderID,Customers.FirstName AS CustomerFirstName,Customers.LastName AS CustomerLastName,Orders.OrderDate,Orders.TotalAmount
5 FROM Orders
6 JOIN Customers ON Orders.CustomerID = Customers.CustomerID;
7
```

Result Grid

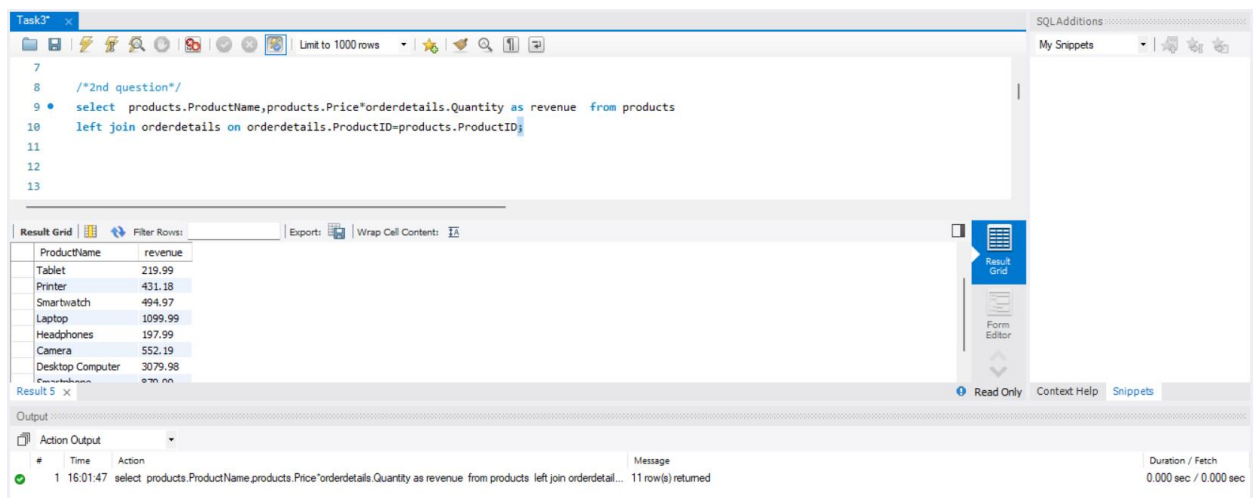
| OrderID | CustomerFirstName | CustomerLastName | OrderDate | TotalAmount |
|---------|-------------------|------------------|------------|-------------|
| 2 | Rohit | Rajput | 2024-02-01 | 651.17 |
| 3 | Rushi | Shete | 2024-03-01 | 1594.96 |
| 4 | tejal | Chaudhari | 2024-04-01 | 197.99 |
| 5 | priya | Chaudhari | 2024-05-01 | 3079.98 |
| 6 | Pranjal | Wani | 2024-06-01 | 552.19 |
| 7 | bhavesh | madhse | 2024-07-01 | 879.99 |
| 8 | Shubham | Mane | 2024-08-01 | 879.99 |
| 9 | aksh | Madhse | 2024-09-01 | 879.99 |

Output

Action Output

| # | Time | Action | Message | Duration / Fetch |
|---|----------|--|-------------------|-----------------------|
| 1 | 15:56:08 | SELECT Orders.OrderID,Customers.FirstName AS CustomerFirstName,Customers.LastName AS CustomerLastNa... | 9 row(s) returned | 0.000 sec / 0.000 sec |

2.



Task3

```
7
8 /*2nd question*/
9 • select products.ProductName,products.Price*orderdetails.Quantity as revenue from products
10 left join orderdetails on orderdetails.ProductID=products.ProductID;
11
12
13
```

Result Grid

| ProductName | revenue |
|------------------|---------|
| Tablet | 219.99 |
| Printer | 431.18 |
| Smartwatch | 494.97 |
| Laptop | 1099.99 |
| Headphones | 197.99 |
| Camera | 552.19 |
| Desktop Computer | 3079.98 |
| Smartwatch | 494.97 |
| Headphones | 197.99 |
| Printer | 431.18 |
| Tablet | 219.99 |

Output

Action Output

| # | Time | Action | Message | Duration / Fetch |
|---|----------|--|--------------------|-----------------------|
| 1 | 16:01:47 | select products.ProductName,products.Price*orderdetails.Quantity as revenue from products left join orderdetail... | 11 row(s) returned | 0.000 sec / 0.000 sec |

3.

Task3

Limit to 1000 rows

```
13
14
15 /*3rd question*/
16 • SELECT * FROM Customers JOIN Orders ON Customers.CustomerID = Orders.CustomerID
17   where orders.TotalAmount is not null;
18
19
```

Result Grid

| CustomerID | FirstName | LastName | Email | Phone | Address | Ordernumbers | OrderID | CustomerID | OrderDate | TotalAmount | Status |
|------------|-----------|-----------|-------------------|------------|-----------------|--------------|---------|------------|------------|-------------|---------|
| 2 | Rohit | Rajput | rohit@gmail.com | 1234567890 | 102 mumbai | 1 | 2 | 2 | 2024-02-01 | 651.17 | Shipped |
| 3 | Rushi | Shete | rushi@gmail.com | 1234567089 | 103 pune | 1 | 3 | 3 | 2024-03-01 | 1594.96 | NULL |
| 4 | tejal | Chaudhari | tejal@gmail.com | 1234568905 | 104 nagpur | 1 | 4 | 4 | 2024-04-01 | 197.99 | NULL |
| 5 | priya | Chaudhari | priya@gmail.com | 1234567823 | 105 jalgaon | 1 | 5 | 5 | 2024-05-01 | 3079.98 | NULL |
| 6 | Pranjal | Wani | pranjal@gmail.com | 1235467890 | 106 navi mumbai | 1 | 6 | 6 | 2024-06-01 | 552.19 | NULL |
| 7 | bhavesh | madhse | bhavesh@gmail.com | 2134567890 | 107 kalyan | 1 | 7 | 7 | 2024-07-01 | 879.99 | NULL |

Result 7 x

Read Only Context Help Snippets

Output

Action Output

| # | Time | Action | Message | Duration / Fetch |
|---|----------|---|-------------------|-----------------------|
| 1 | 16:03:10 | SELECT * FROM Customers JOIN Orders ON Customers.CustomerID = Orders.CustomerID where orders.TotalAm... | 6 row(s) returned | 0.016 sec / 0.000 sec |

4.

Task3

Limit to 1000 rows

```
22
23
24 • SELECT Products.ProductName,SUM(OrderDetails.Quantity) AS TotalQuantityOrdered
25   FROM Products
26  JOIN OrderDetails ON Products.ProductID = OrderDetails.ProductID
27  GROUP BY Products.ProductName
28  ORDER BY TotalQuantityOrdered DESC ;
29
```

Result Grid

| ProductName | TotalQuantityOrdered |
|------------------|----------------------|
| Smartwatch | 3 |
| Printer | 2 |
| Desktop Computer | 2 |
| Tablet | 1 |
| Laptop | 1 |
| Headphones | 1 |
| Camera | 1 |
| Smartphone | 1 |

Result 10 x

Read Only Context Help Snippets

Output

Action Output

| # | Time | Action | Message | Duration / Fetch |
|---|----------|---|-------------------|-----------------------|
| 1 | 16:04:36 | SELECT Products.ProductName,SUM(OrderDetails.Quantity) AS TotalQuantityOrdered FROM Products JOIN Or... | 8 row(s) returned | 0.015 sec / 0.000 sec |

5.

Task3

Limit to 1000 rows

```

31
32 /*5th question*/
33 • SELECT ProductName,Category
34 FROM Products;
35
36
37
38

```

Result Grid

| ProductName | Category |
|----------------------|-------------|
| Printer | Electronics |
| Smartwatch | Electronics |
| Laptop | Electronics |
| Headphones | Electronics |
| Camera | Electronics |
| Desktop Computer | Electronics |
| Smartphone | Electronics |
| New Electronic Ga... | Electronics |

Products 11 x

Output

Action Output

| # | Time | Action | Message | Duration / Fetch |
|---|----------|---|--------------------|-----------------------|
| 1 | 16:05:31 | SELECT ProductName,Category FROM Products LIMIT 0, 1000 | 11 row(s) returned | 0.000 sec / 0.000 sec |

6.

Task3

Limit to 1000 rows

```

37
38
39 /*6th question*/
40 • SELECT Customers.CustomerID,Customers.FirstName,Customers.LastName,AVG(Orders.TotalAmount) AS AverageOrderValue
41 FROM Customers
42 JOIN Orders ON Customers.CustomerID = Orders.CustomerID
43 GROUP BY Customers.CustomerID;
44

```

Result Grid

| CustomerID | FirstName | LastName | AverageOrderValue |
|------------|-----------|-----------|-------------------|
| 2 | Rohit | Rajput | 651.170000 |
| 3 | Rushi | Shete | 1594.960000 |
| 4 | tejal | Chaudhari | 197.990000 |
| 5 | priya | Chaudhari | 3079.980000 |
| 6 | Pranjal | Wani | 552.190000 |
| 7 | bhavesh | madhse | 879.990000 |
| 8 | Shubham | Mane | 0.000000 |
| 9 | Mihir | Mahajan | 0.000000 |
| 10 | Harshal | Rane | 0.000000 |

Result 13 x

Output

Action Output

| # | Time | Action | Message | Duration / Fetch |
|---|----------|---|-------------------|-----------------------|
| 1 | 16:06:21 | SELECT Customers.CustomerID,Customers.FirstName,Customers.LastName,AVG(Orders.TotalAmount) AS AverageOrderValue FROM Customers JOIN Orders ON Customers.CustomerID = Orders.CustomerID GROUP BY Customers.CustomerID; | 9 row(s) returned | 0.000 sec / 0.000 sec |

7.

Task3" x

Limit to 1000 rows

```
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
```

Result Grid

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

Result 14 x

Read Only Context Help Snippets

Output

Action Output

| # | 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.

Task3" x

Limit to 1000 rows

```
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
```

Result Grid

| 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 |

Result 16 x

Read Only Context Help Snippets

Output

Action Output

| # | 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.

Task3

```
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
```

Result Grid

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

Result 17

Output

| # | 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.

Task3

```
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';
```

Result Grid

| | TotalRevenue |
|---|--------------|
| ▶ | 6956.28 |

Result 19

Output

| # | 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 |

TASK 4:

1.

The screenshot shows a SQL task window titled 'task4'. The query editor contains the following SQL code:

```
1 /* task 4*/
2 /*1*/
3 • SELECT *
4 FROM Customers
5 WHERE CustomerID NOT IN (SELECT DISTINCT CustomerID FROM Orders);
6
```

The 'Result Grid' shows the following data:

| CustomerID | FirstName | LastName | Email | Phone | Address | OrderNumbers |
|------------|-----------|-----------|----------------------|------------|------------------|--------------|
| 1 | Rohan | Chaudhari | addemail@gmail.com | 1234567890 | add info example | 0 |
| 11 | Shryash | Zope | shreyash@example.com | 1253689740 | 111 Nashik | 0 |

The 'Output' pane shows the following message:

```
1 12:29:21 SELECT * FROM Customers WHERE CustomerID NOT IN (SELECT DISTINCT CustomerID FROM Orders) LIM... 2 row(s) returned
```

2.

The screenshot shows a SQL task window titled 'task4'. The query editor contains the following SQL code:

```
6
7
8 /*2*/
9 • SELECT COUNT(*) AS TotalProducts
10 FROM Products
11 where productId In (select ProductId from inventory where quantityinstock>0);
```

The 'Result Grid' shows the following data:

| TotalProducts |
|---------------|
| 10 |

The 'Output' pane shows the following message:

```
1 12:34:14 SELECT COUNT(*) AS TotalProducts FROM Products where productId In (select ProductId from inventory wher... 1 row(s) returned
```

3.

The screenshot shows the SQL Server Enterprise Manager interface. The query editor displays the following SQL code:

```
12
13 /*3*/
14 • SELECT SUM(TotalAmount) AS TotalRevenue
15 FROM Orders;
16
17
```

The Results pane shows a single row in the 'Result Grid' with the value 6956.28 for the column 'TotalRevenue'.

The Output pane shows the following message:

| # | Time | Action | Message | Duration / Fetch |
|---|----------|---|-------------------|-----------------------|
| 1 | 12:34:59 | SELECT SUM(TotalAmount) AS TotalRevenue FROM Orders LIMIT 0, 1000 | 1 row(s) returned | 0.016 sec / 0.000 sec |

4.

The screenshot shows the SQL Server Enterprise Manager interface. The query editor displays the following SQL code:

```
16
17 /*4*/
18 • SELECT AVG(od.Quantity) AS AvgQuantityOrdered
19 FROM OrderDetails od
20 WHERE od.ProductID IN (SELECT ProductID FROM Products WHERE Category = 'Electronic Gadget');
21
```

The Results pane shows a single row in the 'Result Grid' with the value 1.2000 for the column 'AvgQuantityOrdered'.

The Output pane shows the following message:

| # | Time | Action | Message | Duration / Fetch |
|---|----------|--|-------------------|-----------------------|
| 1 | 12:38:51 | SELECT AVG(od.Quantity) AS AvgQuantityOrdered FROM OrderDetails od WHERE od.ProductID IN (SELECT ... | 1 row(s) returned | 0.015 sec / 0.000 sec |

5.

The screenshot shows a SQL IDE window titled "SQL File 6*". The query editor contains the following SQL code:

```
21
22 /*5*/
23 • SELECT SUM(TotalAmount) AS TotalRevenue
24 FROM Orders
25 WHERE CustomerID = 2;
26
```

Below the query editor, the "Result Grid" shows a single row with the value 651.17 for the column TotalRevenue.

The "Output" pane at the bottom shows the execution details:

| # | Time | Action | Message | Duration / Fetch |
|---|----------|--|-------------------|-----------------------|
| 1 | 12:40:48 | SELECT SUM(TotalAmount) AS TotalRevenue FROM Orders WHERE CustomerID = 2 LIMIT 0, 1000 | 1 row(s) returned | 0.000 sec / 0.000 sec |

6.

The screenshot shows a SQL IDE window titled "SQL File 6*". The query editor contains the following SQL code:

```
26
27 /*6*/
28 • SELECT c.FirstName, c.LastName, (
29     SELECT COUNT(*)
30     FROM Orders o
31     WHERE o.CustomerID = c.CustomerID
32 ) AS OrderCount
33 FROM Customers c
34 ORDER BY OrderCount DESC;
```

Below the query editor, the "Result Grid" shows a table with columns FirstName, LastName, and OrderCount. The data is as follows:

| FirstName | LastName | OrderCount |
|-----------|-----------|------------|
| Rohit | Rajput | 1 |
| Rushi | Shete | 1 |
| tejal | Chaudhari | 1 |
| priya | Chaudhari | 1 |
| Pranjal | Wani | 1 |
| bhavesh | madhse | 1 |

The "Output" pane at the bottom shows the execution details:

| # | Time | Action | Message | Duration / Fetch |
|---|----------|---|--------------------|-----------------------|
| 1 | 12:42:08 | SELECT c.FirstName, c.LastName, (SELECT COUNT(*) FROM Orders o WHERE o.CustomerID = c.Cus... | 11 row(s) returned | 0.000 sec / 0.000 sec |

7.

SQL File 6

```

35  /*7*/
36  SELECT p.Category, (
37      SELECT SUM(od.Quantity)
38      FROM OrderDetails od
39      WHERE od.ProductID = p.ProductID
40  ) AS TotalQuantityOrdered
41  FROM Products p
42  ORDER BY TotalQuantityOrdered DESC
43  LIMIT 1;

```

Result Grid

| Category | TotalQuantityOrdered |
|-------------------|----------------------|
| Electronic Gadget | 3 |

Output

| # | Time | Action | Message | Duration / Fetch |
|---|----------|---|-------------------|-----------------------|
| 1 | 12:43:49 | SELECT p.Category, (SELECT SUM(od.Quantity) FROM OrderDetails od WHERE od.ProductID = p.Pro... | 1 row(s) returned | 0.000 sec / 0.000 sec |

8.

SQL File 6

```

46  /*8*/
47  SELECT c.FirstName, c.LastName, (
48      SELECT SUM(o.TotalAmount)
49      FROM Orders o
50      JOIN OrderDetails od ON o.OrderID = od.OrderID
51      JOIN Products p ON od.ProductID = p.ProductID
52      WHERE o.CustomerID = c.CustomerID AND p.Category = 'Electronic Gadgets'
53  ) AS TotalSpending
54  FROM Customers c
55  ORDER BY TotalSpending DESC
56  LIMIT 1;

```

Result Grid

| FirstName | LastName | TotalSpending |
|-----------|-----------|---------------|
| Rohan | Chaudhari | 10000 |

Output

| # | Time | Action | Message | Duration / Fetch |
|---|----------|--|-------------------|-----------------------|
| 1 | 12:53:30 | SELECT c.FirstName, c.LastName, (SELECT SUM(p.TotalAmount) FROM Orders o JOIN OrderDetails o... | 1 row(s) returned | 0.000 sec / 0.000 sec |

9.

The screenshot shows a SQL File editor with a query to calculate the average order value. The query is as follows:

```
58  
59  
60 /*9*/  
61 • SELECT AVG(TotalAmount) AS AverageOrderValue  
62 FROM Orders;  
63  
64  
65  
66  
67
```

The Result Grid shows the following data:

| AverageOrderValue |
|-------------------|
| 1708.040000 |

The Output pane shows the following message:

```
1 12:55:58 SELECT AVG(TotalAmount) AS AverageOrderValue FROM Orders LIMIT 0, 1000  
1 row(s) returned
```

10.

The screenshot shows a SQL File editor with a query to list customers by order count. The query is as follows:

```
64 /*10*/  
65 • SELECT FirstName, LastName,  
66 (   
67 SELECT COUNT(*)  
68 FROM Orders o  
69 WHERE o.CustomerID = c.CustomerID  
70 ) AS OrderCount  
71 FROM Customers c  
72 ORDER BY OrderCount DESC;  
73
```

The Result Grid shows the following data:

| FirstName | LastName | OrderCount |
|-----------|-----------|------------|
| Rohan | Chaudhari | 1 |
| Rohit | Rajput | 1 |
| Rushi | Shete | 1 |
| tejal | Chaudhari | 1 |
| priya | Chaudhari | 1 |
| Pranjal | Wani | 1 |

The Output pane shows the following message:

```
1 12:57:58 SELECT FirstName, LastName, ( SELECT COUNT(*) FROM Orders o WHERE o.CustomerID =... 11 row(s) returned
```