

# Assignment 1

## TechShop an electronic gadget shop

### Task1:

1.

The screenshot shows the SQL Server Management Studio interface. In the Object Explorer, a database named 'TechShop' is selected. The 'Script' tab is active, displaying the T-SQL commands used to create the database and switch to it:

```
1 • create database techshop;
2 • use techshop;
3
4
5
6
7
8
9
10
11
12
13
14
15
16
```

In the 'Output' pane, the results of the execution are shown:

Action	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 Management Studio interface. In the Object Explorer, a table named 'Customers' is selected. The 'Script' tab is active, displaying the T-SQL command used to create the table:

```
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 )
```

In the 'Output' pane, the results of the execution are shown:

Action	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), ... 0 row(s) affected 0.031 sec

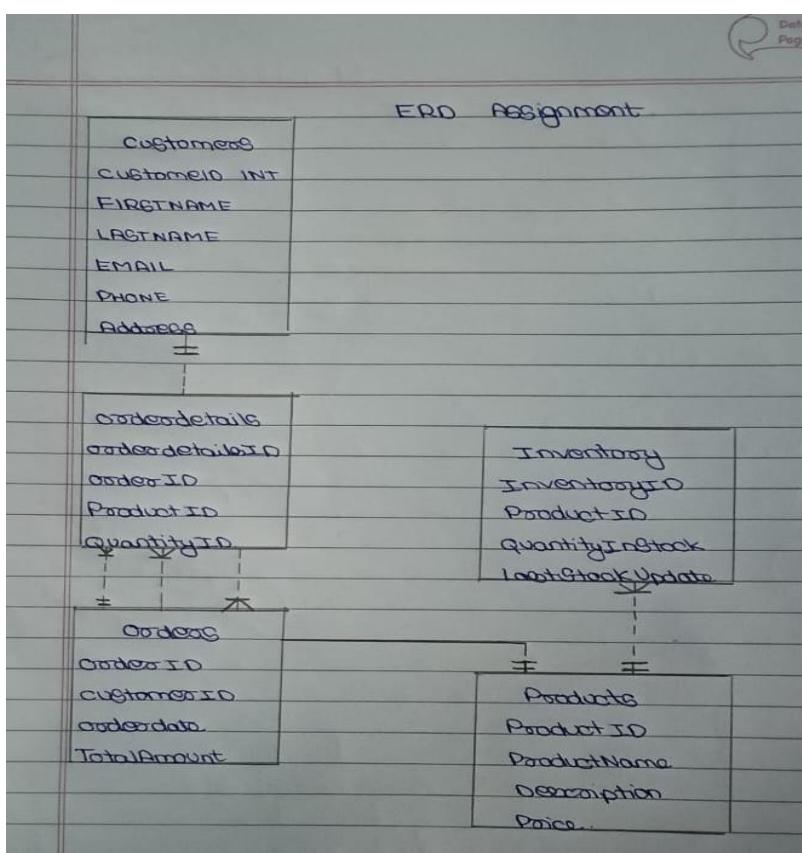
4 15:10:15 create table Products(ProductID int primary key, ProductName varchar(255), Description text, Price decimal(... 0 row(s) affected 0.031 sec

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 ×
File Edit View Insert Tools Help
insert into Customers values
(1, 'Execute the statement under the keyboard cursor', 'jalgaon'),
(2, 'Rohit', 'Rajput', 'rohit@gmail.com', '1234567890', '102 mumbai'),
(3, 'Rushi', 'Shete', 'rushi@gmail.com', '1234567089', '103 pune'),
(4, 'tejal', 'Chaudhari', 'tejal@gmail.com', '1234568905', '104 nagpur'),
(5, 'priya', 'Chaudhari', 'priya@gmail.com', '1234567823', '105 jalgaon'),
(6, 'Pranjal', 'Wani', 'pranjal@gmail.com', '1235467890', '106 navi mumbai'),
(7, 'bhavesh', 'madhse', 'bhavesh@gmail.com', '2134567890', '107 kalyan'),
(8, 'Shubham', 'Mane', 'shubham@gmail.com', '1234765890', '108 dombivili'),
(9, 'Mihir', 'Mahajan', 'mihir@gmail.com', '1234598590', '109 Airoli'),
(10, 'Marshal', 'Rane', 'marshal@gmail.com', '4321567890', '110 jalgaon');

INSERT INTO Products VALUES
(1, 'External Hard Drive', '1TB hard drive', 83.59),
(2, 'Wireless Router', 'dual-band router', 120.99),
(3, 'Tablet', '10-inch tablet with long battery', 199.99),
(4, 'Printer', 'Wireless all-in-one printer', 195.99),
(5, 'Smartwatch', 'Fitness tracker having heart rate monitor', 149.99),
(6, 'Laptop', 'High-performance laptop', 999.99),
(7, 'Headphones', 'headphones with Bluetooth', 179.99),
(8, 'Camera', 'Digital camera with 20MP', 501.99),
(9, 'Desktop Computer', 'Powerful desktop ', 1399.99),
(10, 'Smartphone', 'Latest model with dual cameras', 799.99);

INSERT INTO Orders VALUES
(1, 1, '2024-01-01', 1399.98),
(2, 2, '2024-02-01', 699.99),
(3, 3, '2024-03-01', 899.95),
(4, 4, '2024-04-01', 649.97),
(5, 5, '2024-05-01', 559.98),
(6, 6, '2024-06-01', 3299.97),
(7, 7, '2024-07-01', 699.98),
(8, 8, '2024-08-01', 999.99),
(9, 9, '2024-09-01', 179.98),
(10, 10, '2024-10-01', 899.99);

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, 1),
(8, 5, 9, 2),
(9, 6, 8, 1),
(10, 7, 10, 1);

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, '2024-03-01 13:45:00'),
(4, 4, 30, '2024-04-01 12:15:00'),
(5, 5, 80, '2024-05-01 15:45:00'),
(6, 6, 20, '2024-06-01 19:00:00'),
(7, 7, 40, '2024-07-01 22:15:00'),
(8, 8, 15, '2024-08-01 21:30:00'),
(9, 9, 60, '2024-09-01 01:25:00'),
(10, 10, 25, '2024-10-01 03:00:00');
```

Output			
#	Time	Action	Message
1	15:31:40	insert into Customers values (1,'Rohan','Chaudhari','rohan@gmail.com','1234567890','101jalgaon').	(2,Rohit','R... 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
2	15:31:45	INSERT INTO Products VALUES (1, 'External Hard Drive', '1TB hard drive', 83.59), (2, 'Wireless Router', 'dual band...', 69.99), (3, '2024-01-01', 1399.98), (4, '2024-02-01', 699.99), (5, '2024-03-01', 899.99)	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
3	15:31:48	INSERT INTO Orders VALUES (1, 1, '2024-01-01', 1399.98), (2, 2, '2024-02-01', 699.99), (3, 3, '2024-03-01', 899.99)	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
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, 1)	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
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

## Task2:

1.

```

107
108  /* TASK2 select where , between and like*/
109  • select * from orderdetails;
110  /**/
111  • select FirstName, Email from customers;
112
113
114

```

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

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.

```

117
118
119
120  /*2*/ select Orders.orderID, Customers.FirstName,CUSTOMERS.LastName,Orders.OrderDate  from orders
121      left join Customers on Customers.CustomerID = Orders.CustomerID ;
122
123
124

```

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

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 CUSTOMERS...	10 row(s) returned	0.000 sec / 0.000 sec

### 3.

The screenshot shows the SQL Server Management Studio interface with a query window titled "Task2". The code executed is:

```
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 output pane shows the execution log:

#	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 Server Management Studio interface with a query window titled "Task2". The code executed is:

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

The results pane displays a grid of product 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 pane shows the execution log:

#	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 column...	0.000 sec
5	15:40:45	select * from products LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

5.

The screenshot shows a SQL query window titled 'Task2' with the following code:

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

The output pane shows the results of the execution:

#	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.

The screenshot shows a SQL query window titled 'Task2' with the following code:

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

The output pane shows the results of the execution:

#	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.

The screenshot shows a SQL query window titled 'Task2' with the following code:

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

The output pane shows the results of the execution:

#	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 a SQL query window titled "Task2" 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 output pane 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 a SQL query window titled "Task2" 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 output pane 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 a SQL query window titled "Task2" 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');
```

The output pane 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 the SQL Editor window titled "Task2" with the following content:

```
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
```

Below the code, the "Output" tab is selected, showing 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 the SQL Editor window titled "Task2" with the following content:

```
200
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
```

Below the code, the "Output" tab is selected, showing 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.

The screenshot shows the SQL Server Management Studio interface with a query window titled 'Task3'. The code is as follows:

```
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
```

The results grid displays the following data:

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	NULL
9	akash	Madhav	2024-09-01	NULL

The output pane shows the execution message and duration:

```
1 15:56:08 SELECT Orders.OrderID,Customers.FirstName AS CustomerFirstName,Customers.LastName AS CustomerLastName,Orders.OrderDate,Orders.TotalAmount
Duration / Fetch
0.000 sec / 0.000 sec
```

### 2.

The screenshot shows the SQL Server Management Studio interface with a query window titled 'Task3'. The code is as follows:

```
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
```

The results grid displays the following data:

ProductName	revenue
Tablet	219.99
Printer	431.18
Smartwatch	494.97
Laptop	1099.99
Headphones	197.99
Camera	552.19
Desktop Computer	3079.98
Keyboard	879.99

The output pane shows the execution message and duration:

```
1 16:01:47 select products.ProductName,products.Price*orderdetails.Quantity as revenue from products left join orderdetail...
Duration / Fetch
0.000 sec / 0.000 sec
```

3.

Task3\* ×

```
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 | Filter Rows: Export: Wrap Cell Content:

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	1234567890	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 jaigaon	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 ×

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\* ×

```
22
23    /*4th question*/
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 | Filter Rows: Export: Wrap Cell Content:

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

Result 10 ×

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.

The screenshot shows the SQL Server Management Studio interface. In the top pane, there is a code editor window titled "Task3\*" containing the following SQL query:

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

Below the code editor is a "Result Grid" window displaying the results of the query. The results show a list of products and their categories:

ProductName	Category
Printer	NULL
Smartwatch	NULL
Laptop	NULL
Headphones	NULL
Camera	NULL
Desktop Computer	NULL
Smartphone	NULL
New Electronic Ga...	Electroni...

At the bottom of the interface, there is an "Output" window showing the execution details of the query:

#	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.

The screenshot shows the SQL Server Management Studio interface. In the top pane, there is a code editor window titled "Task3\*" containing the following SQL query:

```
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
```

Below the code editor is a "Result Grid" window displaying the results of the query. The results show the CustomerID, FirstName, LastName, and AverageOrderValue for each customer:

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	madhise	879.990000
8	Shubham	Mane	NULL
9	Mihir	Mahajan	NULL
10	Harshal	Rane	NULL

At the bottom of the interface, there is an "Output" window showing the execution details of the query:

#	Time	Action	Message	Duration / Fetch
1	16:06:21	SELECT Customers.CustomerID,Customers.FirstName,Customers.LastName,AVG(Orders.TotalAmount) AS Average...	9 row(s) returned	0.000 sec / 0.000 sec

7.

Task3\* ×

```
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 | Filter Rows: Export: Wrap Cell Content: Fetch rows: Result Grid Form Editor

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

Result 14 ×

Action Output

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

Message Duration / Fetch  
1 row(s) returned 0.000 sec / 0.000 sec

SQLAdditions ··· My Snippets ··· Read Only Context Help Snippets

8.

Task3\* ×

```
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 | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor

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 ×

Action Output

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

Message Duration / Fetch  
11 row(s) returned 0.000 sec / 0.000 sec

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9.

The screenshot shows the SSMS interface with a query window titled "Task3". The query is:

```
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
```

The results grid shows one row:

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

The output pane shows the execution log:

#	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.

The screenshot shows the SSMS interface with a query window titled "Task3". The query is:

```
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';
```

The results grid shows one row:

TotalRevenue
6956.28

The output pane shows the execution log:

#	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