Online Retail Database System

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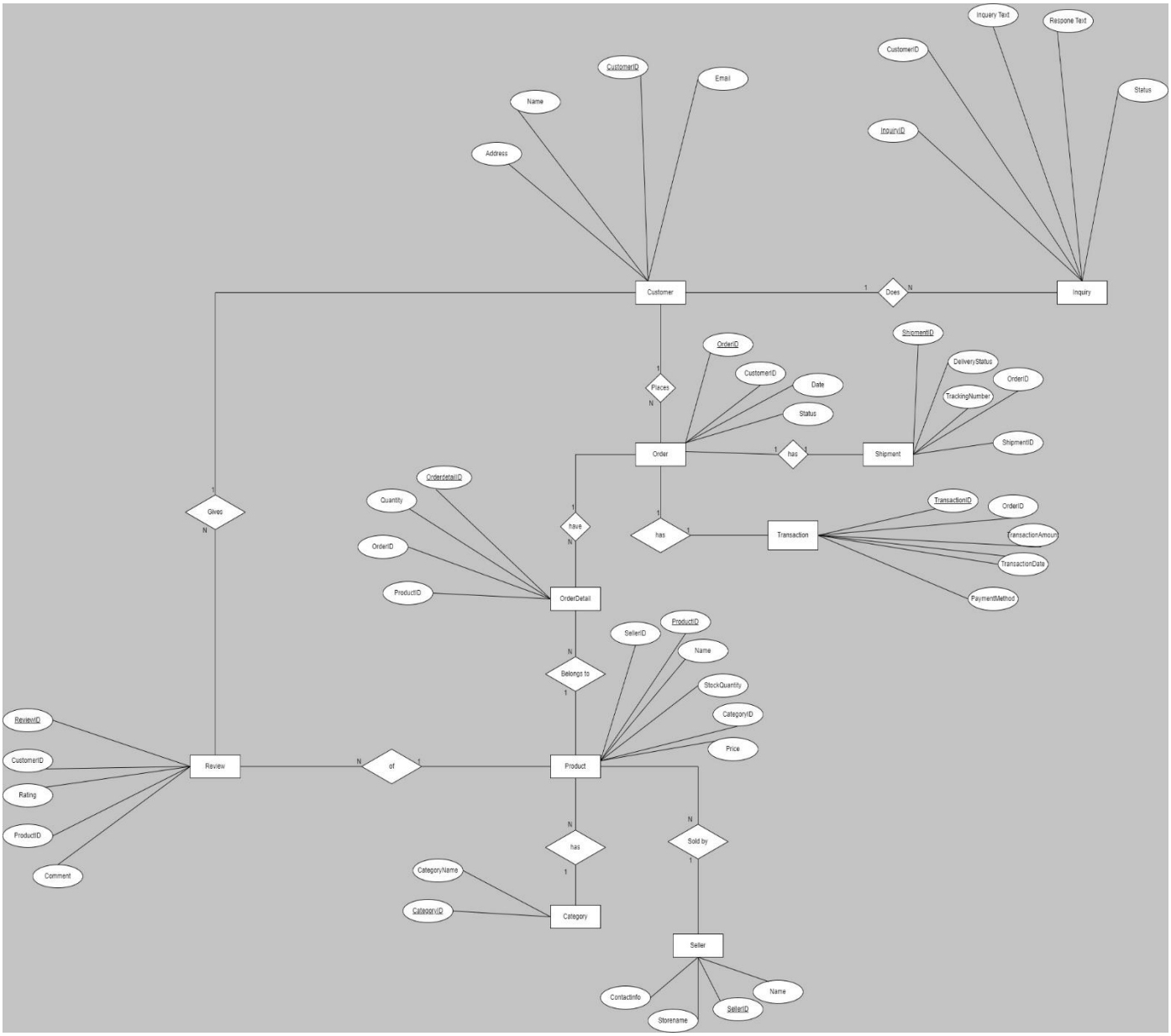
Instructor's Name: Maxim Khomutinnikov

Date: 12/09/2023

Table of content

Entity-Relationship Diagram (ERD):

An entity–relationship model describes interrelated things of interest in a specific domain of knowledge. A basic ER model is composed of entity types and specifies relationships that can exist between entities.



Entity Relational Model

1. Customer
    - Attributes: CustomerID (PK), Name, Email, Password, Address, PhoneNumber
    - Relationships: Places (with Order), Submits (with Review), Makes (with Inquiry)
2. Seller
    - Attributes: SellerID (PK), StoreName, ContactInfo
    - Relationships: Lists (with Product)
3. Product
    - Attributes: ProductID (PK), Name, Price, CategoryID (FK), SellerID (FK), StockQuantity
    - Relationships: Belongs_to (with Category), Listed_by (with Seller), Included_in (with OrderDetail), Reviewed (with Review)
4. Category
    - Attributes: CategoryID (PK), CategoryName
    - Relationships: Has (with Product)
5. Order
    - Attributes: OrderID (PK), CustomerID (FK), Date, Status

- Relationships: Placed_by (with Customer), Contains (with OrderDetail), Has (with Transaction), Sent_via (with Shipment)

6. OrderDetail
    - Attributes: OrderDetailID (PK), OrderID (FK), ProductID (FK), Quantity
    - Relationships: Details_of (with Order), Includes (with Product)
7. Transaction
    - Attributes: TransactionID (PK), OrderID (FK), TransactionAmount, TransactionDate, PaymentMethod
    - Relationships: Belongs_to (with Order)
8. Review
    - Attributes: ReviewID (PK), ProductID (FK), CustomerID (FK), Rating, Comment
    - Relationships: Given_by (with Customer), For (with Product)
9. Inquiry
    - Attributes: InquiryID (PK), CustomerID (FK), InquiryText, ResponseText, Status
    - Relationships: Made_by (with Customer)
10. Shipment

- Attributes: ShipmentID (PK), OrderID (FK), ShipmentDate, TrackingNumber, DeliveryStatus
- Relationships: Pertains_to (with Order)

Database Schema

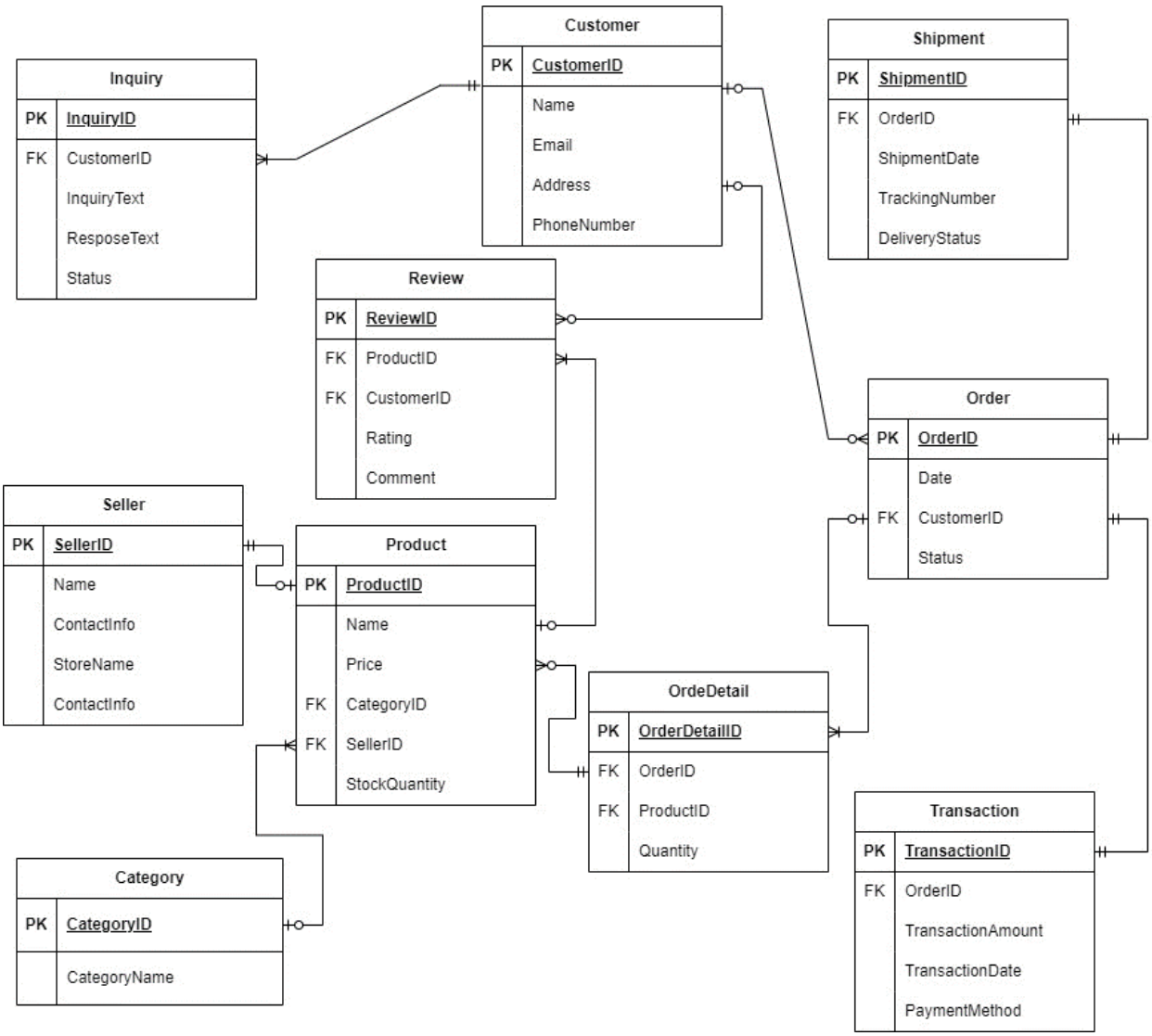
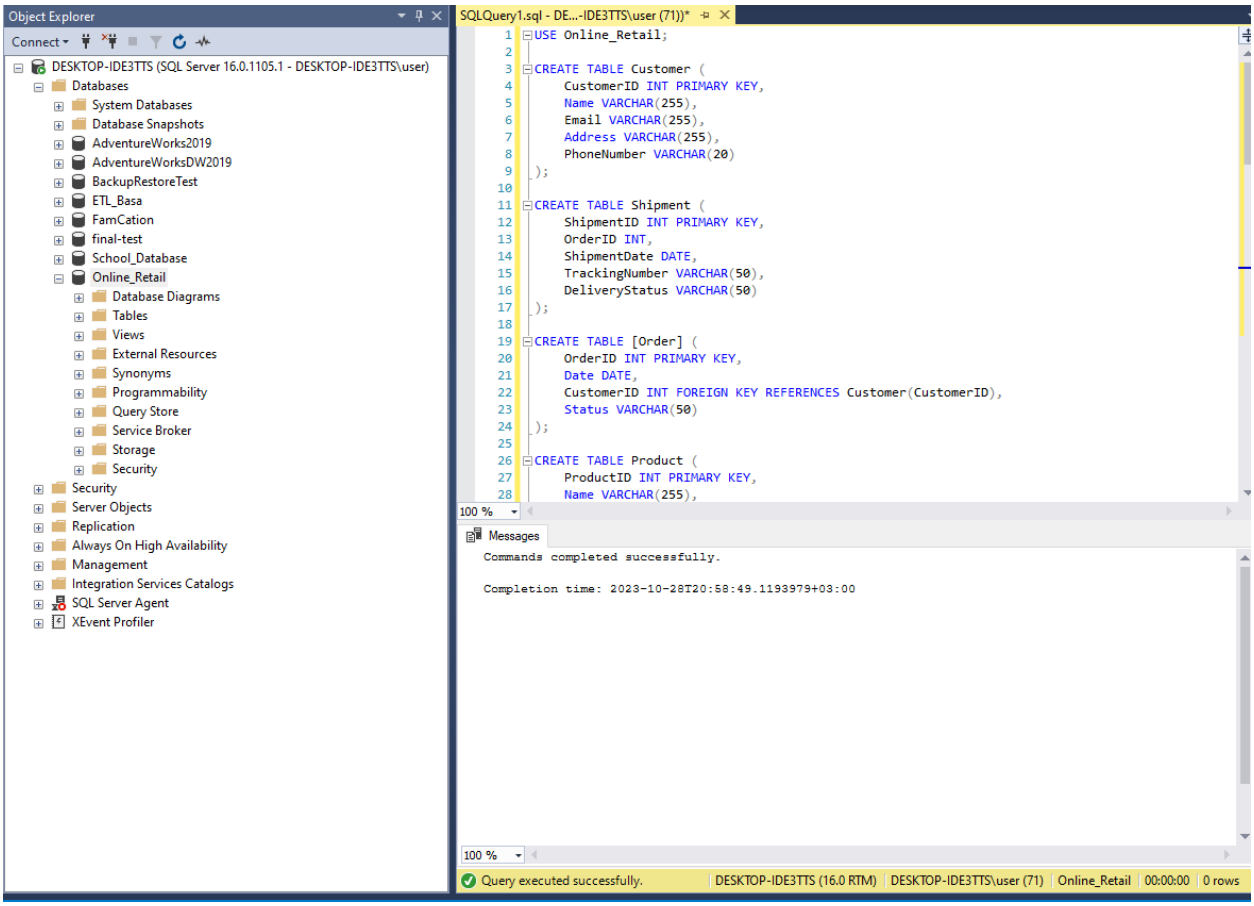


Table creation

SQL provides the CREATE TABLE statement to create a new table in a given database. An SQL query to create a table must define the structure of a table. The structure consists of the name of a table and names of columns in the table with each column's data type. Note that each table must be uniquely named in a database.

Database Implementation

a. Create tables




```
CREATE TABLE Customer (
    CustomerID INT PRIMARY KEY,
    Name VARCHAR(255),
    Email VARCHAR(255),
    Address VARCHAR(255),
```

```
    PhoneNumber VARCHAR(20)
);

CREATE TABLE Shipment (
    ShipmentID INT PRIMARY KEY,
    OrderID INT,
    ShipmentDate DATE,
    TrackingNumber VARCHAR(50),
    DeliveryStatus VARCHAR(50)
);

CREATE TABLE [Order] (
    OrderID INT PRIMARY KEY,
    Date DATE,
    CustomerID INT FOREIGN KEY REFERENCES Customer(CustomerID),
    Status VARCHAR(50)
);

CREATE TABLE Product (
    ProductID INT PRIMARY KEY,
    Name VARCHAR(255),
    Price DECIMAL(10,2),
    CategoryID INT,
    SellerID INT,
    StockQuantity INT
);

CREATE TABLE Category (
    CategoryID INT PRIMARY KEY,
```

```
    CategoryName VARCHAR(255)
);

CREATE TABLE Seller (
    SellerID INT PRIMARY KEY,
    Name VARCHAR(255),
    ContactInfo VARCHAR(255),
    StoreName VARCHAR(255)
);

CREATE TABLE OrderDetail (
    OrderDetailID INT PRIMARY KEY,
    OrderID INT,
    ProductID INT,
    Quantity INT,
    FOREIGN KEY (OrderID) REFERENCES [Order](OrderID),
    FOREIGN KEY (ProductID) REFERENCES Product(ProductID)
);

CREATE TABLE [Transaction] (
    TransactionID INT PRIMARY KEY,
    OrderID INT,
    TransactionAmount DECIMAL(10,2),
    TransactionDate DATE,
    PaymentMethod VARCHAR(50),
    FOREIGN KEY (OrderID) REFERENCES [Order](OrderID)
);

CREATE TABLE Review (
```

```
    ReviewID INT PRIMARY KEY,
    ProductID INT,
    CustomerID INT,
    Rating INT,
    Comment TEXT,
    FOREIGN KEY (ProductID) REFERENCES Product(ProductID),
    FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID)
);

CREATE TABLE Inquiry (
    InquiryID INT PRIMARY KEY,
    CustomerID INT,
    InquiryText TEXT,
    ResponseText TEXT,
    Status VARCHAR(50),
    FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID)
);
```

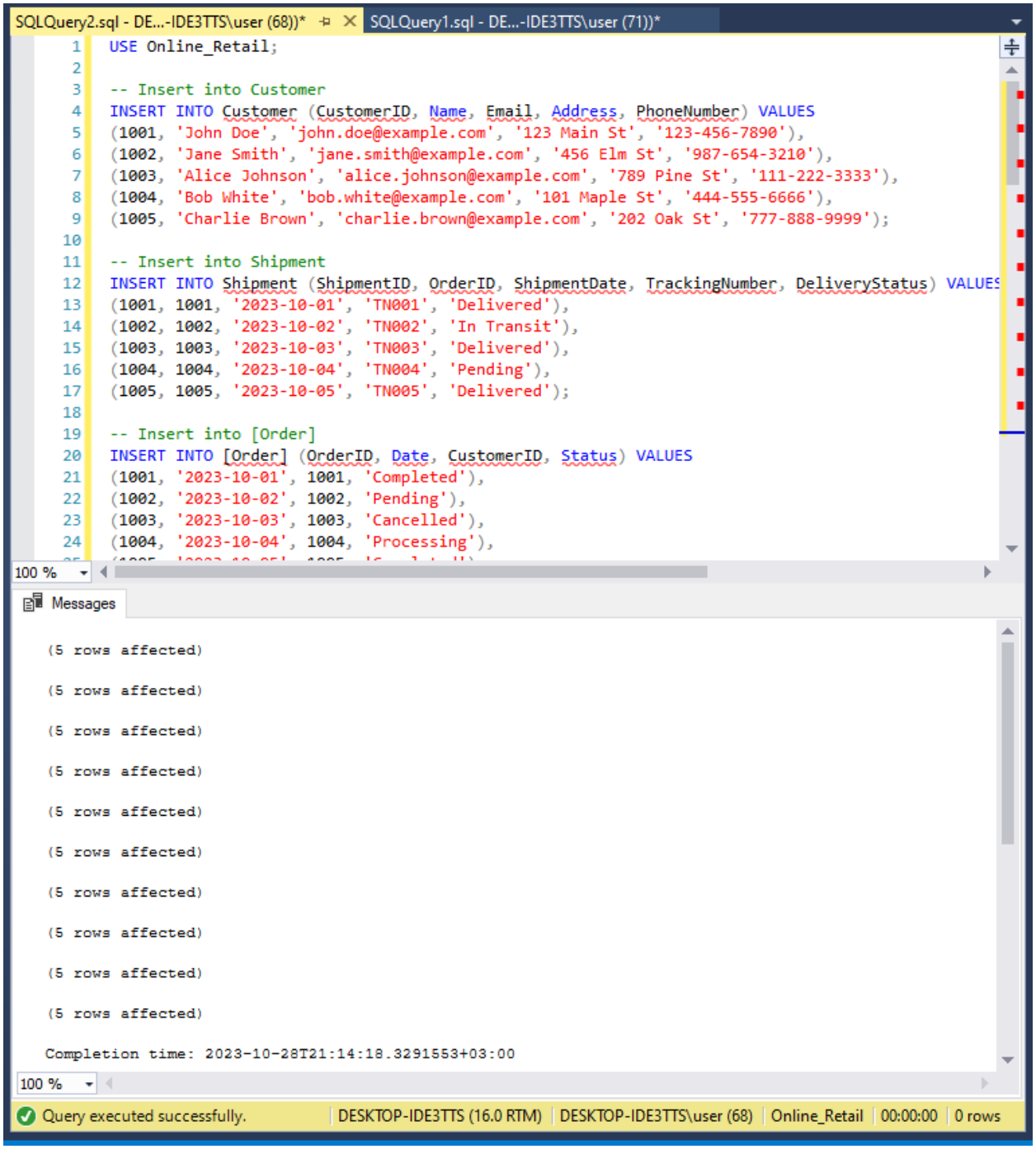
b. Populate the tables

```
USE Online_Retail;

-- Insert into Customer
INSERT INTO Customer (CustomerID, Name, Email, Address, PhoneNumber) VALUES
(1001, 'John Doe', 'john.doe@example.com', '123 Main St', '123-456-7890'),
(1002, 'Jane Smith', 'jane.smith@example.com', '456 Elm St', '987-654-3210'),
(1003, 'Alice Johnson', 'alice.johnson@example.com', '789 Pine St', '111-222-3333'),
(1004, 'Bob White', 'bob.white@example.com', '101 Maple St', '444-555-6666'),
(1005, 'Charlie Brown', 'charlie.brown@example.com', '202 Oak St', '777-888-9999');
```

```
-- Insert into Shipment
INSERT INTO Shipment (ShipmentID, OrderID, ShipmentDate, TrackingNumber, DeliveryStatus) VALUES
(1001, 1001, '2023-10-01', 'TN001', 'Delivered'),
(1002, 1002, '2023-10-02', 'TN002', 'In Transit'),
(1003, 1003, '2023-10-03', 'TN003', 'Delivered'),
(1004, 1004, '2023-10-04', 'TN004', 'Pending'),
(1005, 1005, '2023-10-05', 'TN005', 'Delivered');

-- Insert into [Order]
INSERT INTO [Order] (OrderID, Date, CustomerID, Status) VALUES
(1001, '2023-10-01', 1001, 'Completed'),
(1002, '2023-10-02', 1002, 'Pending'),
(1003, '2023-10-03', 1003, 'Cancelled'),
(1004, '2023-10-04', 1004, 'Processing'),
(1005, '2023-10-05', 1005, 'Completed');

-- Insert into Product
INSERT INTO Product (ProductID, Name, Price, CategoryID, SellerID, StockQuantity) VALUES
(1001, 'Laptop', 999.99, 1001, 1001, 10),
(1002, 'Phone', 499.99, 1001, 1002, 20),
(1003, 'Headphones', 49.99, 1002, 1003, 30),
(1004, 'Keyboard', 29.99, 1002, 1004, 40),
(1005, 'Mouse', 19.99, 1002, 1005, 50);

-- Insert into Category
INSERT INTO Category (CategoryID, CategoryName) VALUES
(1001, 'Electronics'),
```

```
(1002, 'Accessories'),
(1003, 'Clothing'),
(1004, 'Books'),
(1005, 'Home & Kitchen');

-- Insert into Seller
INSERT INTO Seller (SellerID, Name, ContactInfo, StoreName) VALUES
(1001, 'BestElectronics', 'contact@bestelectronics.com', 'Best Electronics Store'),
(1002, 'TechWorld', 'contact@techworld.com', 'Tech World'),
(1003, 'SoundGear', 'contact@soundgear.com', 'Sound Gear'),
(1004, 'TypeIt', 'contact@typeit.com', 'TypeIt Keyboards'),
(1005, 'ClickNGo', 'contact@clickngo.com', 'ClickNGo');

-- Insert into OrderDetail
INSERT INTO OrderDetail (OrderDetailID, OrderID, ProductID, Quantity) VALUES
(1001, 1001, 1001, 1),
(1002, 1002, 1002, 2),
(1003, 1003, 1003, 3),
(1004, 1004, 1004, 4),
(1005, 1005, 1005, 5);

-- Insert into [Transaction]
INSERT INTO [Transaction] (TransactionID, OrderID, TransactionAmount, TransactionDate,
PaymentMethod) VALUES
(1001, 1001, 999.99, '2023-10-01', 'Credit Card'),
(1002, 1002, 999.98, '2023-10-02', 'Debit Card'),
(1003, 1003, 149.97, '2023-10-03', 'PayPal'),
(1004, 1004, 119.96, '2023-10-04', 'Bank Transfer'),
(1005, 1005, 99.95, '2023-10-05', 'Cash');
```

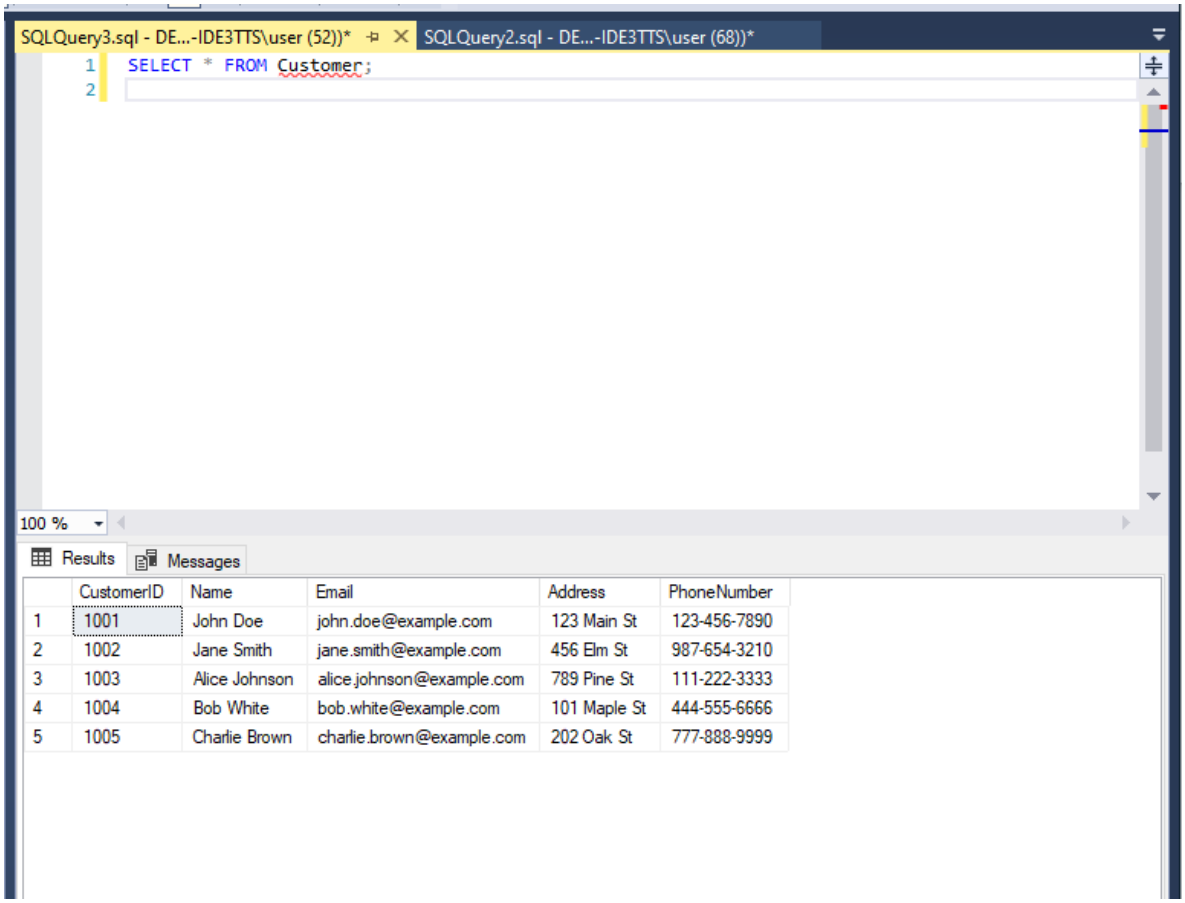
```
-- Insert into Review
INSERT INTO Review (ReviewID, ProductID, CustomerID, Rating, Comment) VALUES
(1001, 1001, 1001, 5, 'Great product!'),
(1002, 1002, 1002, 4, 'Good value for money.'),
(1003, 1003, 1003, 3, 'Average headphones.'),
(1004, 1004, 1004, 2, 'Not very comfortable.'),
(1005, 1005, 1005, 1, 'Stopped working after a week.');

-- Insert into Inquiry
INSERT INTO Inquiry (InquiryID, CustomerID, InquiryText, ResponseText, Status) VALUES
(1001, 1001, 'When will my order ship?', 'Your order will ship tomorrow.', 'Answered'),
(1002, 1002, 'How do I return a product?', 'Please contact customer service.', 'Pending'),
(1003, 1003, 'Do you have this product in blue?', 'Yes, we do have it in blue.', 'Answered'),
(1004, 1004, 'How long is the warranty?', 'The warranty is for one year.', 'Answered'),
(1005, 1005, 'Can I change my shipping address?', 'Please call us ASAP to change the address.',
'Pending');
```



c. Execute SELECT SQL statements to retrieve data from the database

Retrieving all customers:

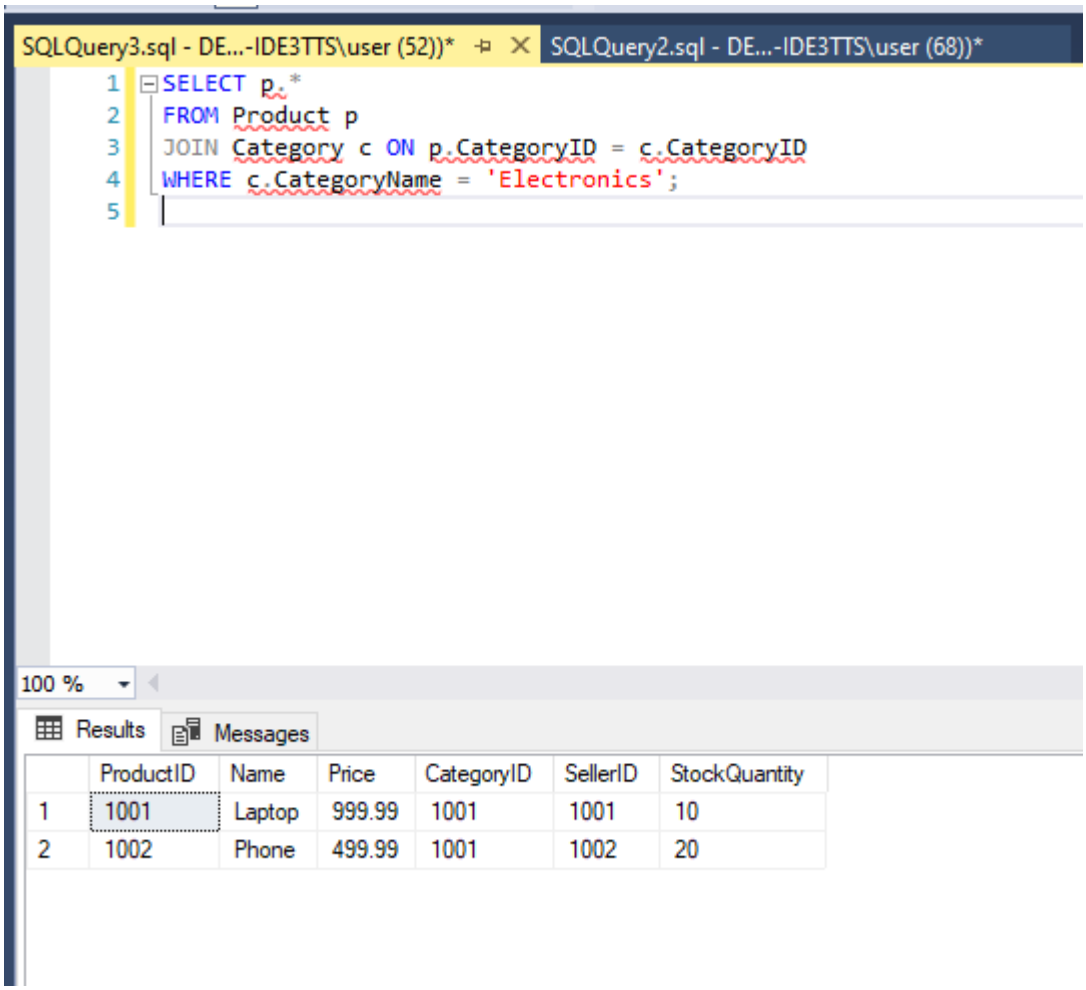
SELECT * FROM Customer;



	CustomerID	Name	Email	Address	PhoneNumber
1	1001	John Doe	john.doe@example.com	123 Main St	123-456-7890
2	1002	Jane Smith	jane.smith@example.com	456 Elm St	987-654-3210
3	1003	Alice Johnson	alice.johnson@example.com	789 Pine St	111-222-3333
4	1004	Bob White	bob.white@example.com	101 Maple St	444-555-6666
5	1005	Charlie Brown	charlie.brown@example.com	202 Oak St	777-888-9999

Retrieving all products in the 'Electronics' category:

```
SELECT p.*
FROM Product p
JOIN Category c ON p.CategoryID = c.CategoryID
WHERE c.CategoryName = 'Electronics';
```



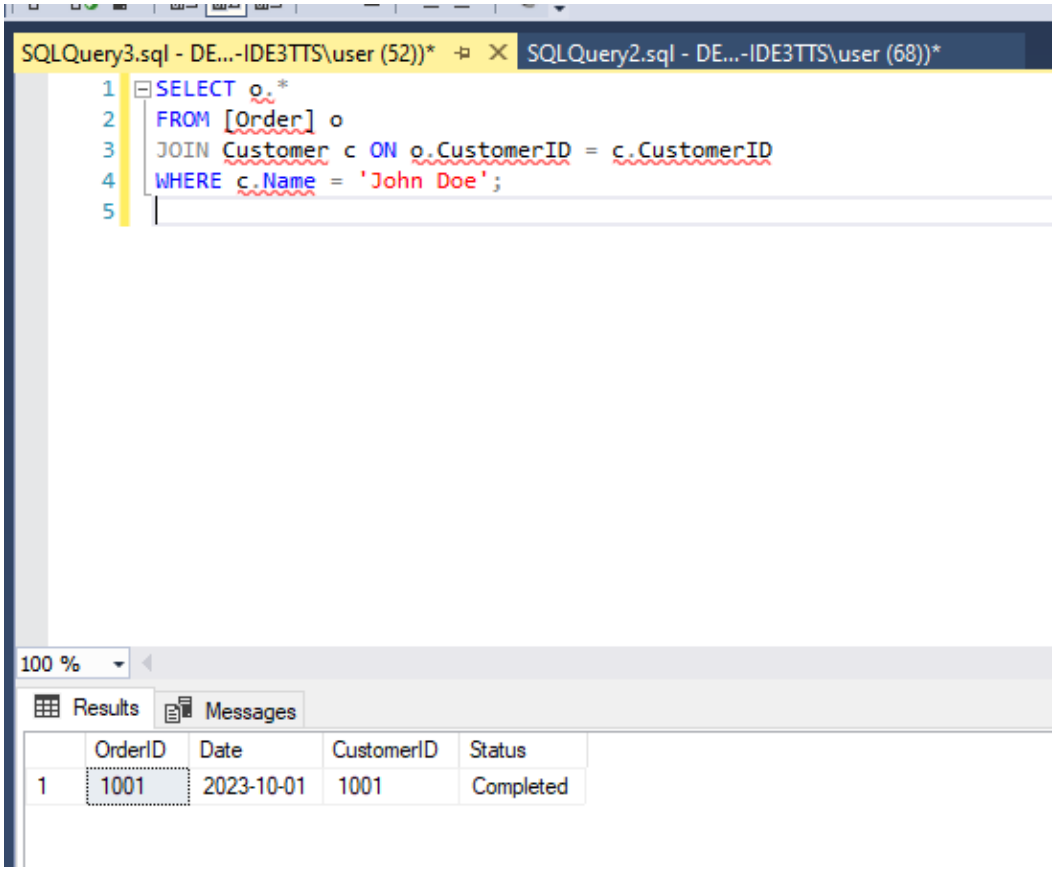
Retrieving all orders for a specific customer (e.g., John Doe):

SELECT o.*

FROM [Order] o

JOIN Customer c ON o.CustomerID = c.CustomerID

WHERE c.Name = 'John Doe';



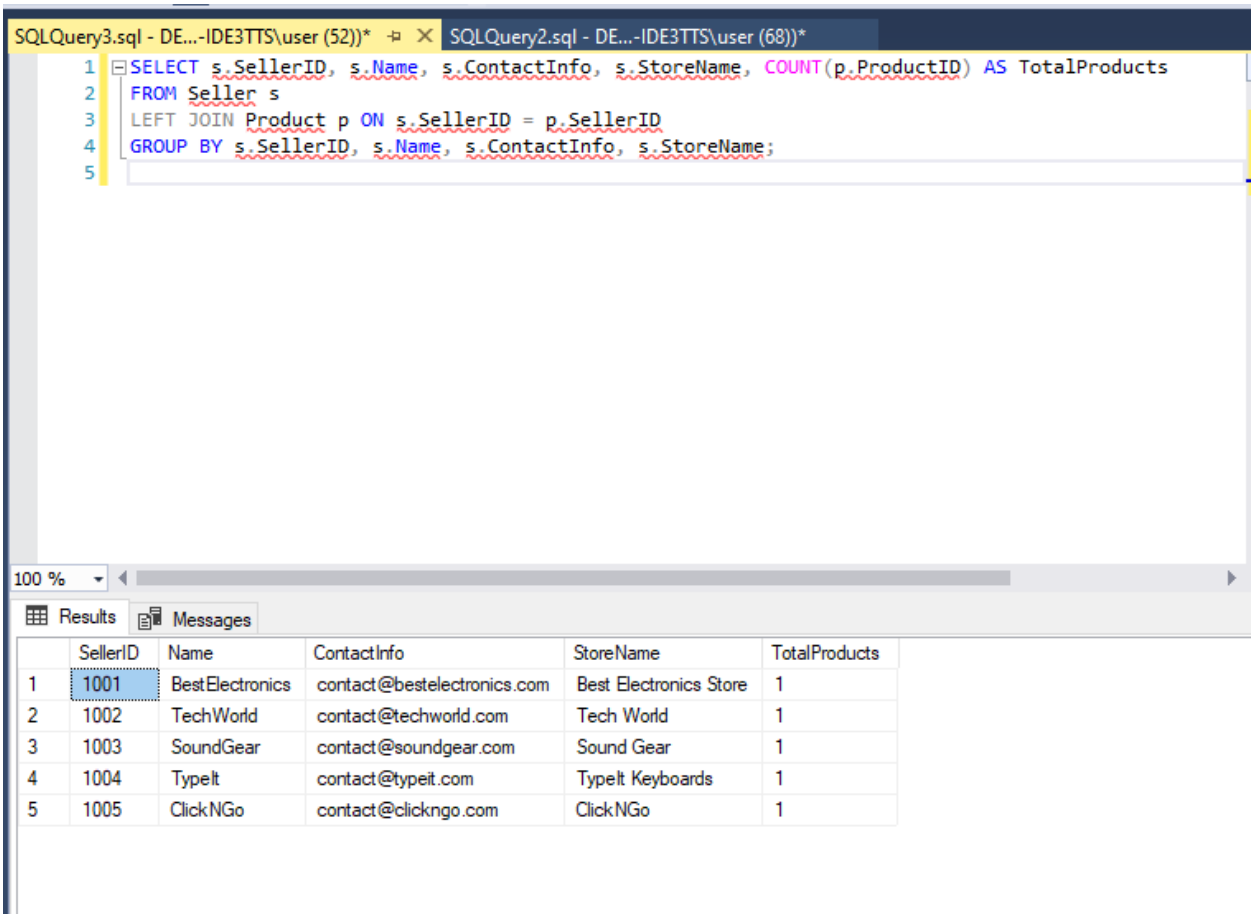
Retrieving all sellers and their total number of products:

SELECT s.SellerID, s.Name, s.ContactInfo, s.StoreName, COUNT(p.ProductID) AS TotalProducts

FROM Seller s

LEFT JOIN Product p ON s.SellerID = p.SellerID

GROUP BY s.SellerID, s.Name, s.ContactInfo, s.StoreName;

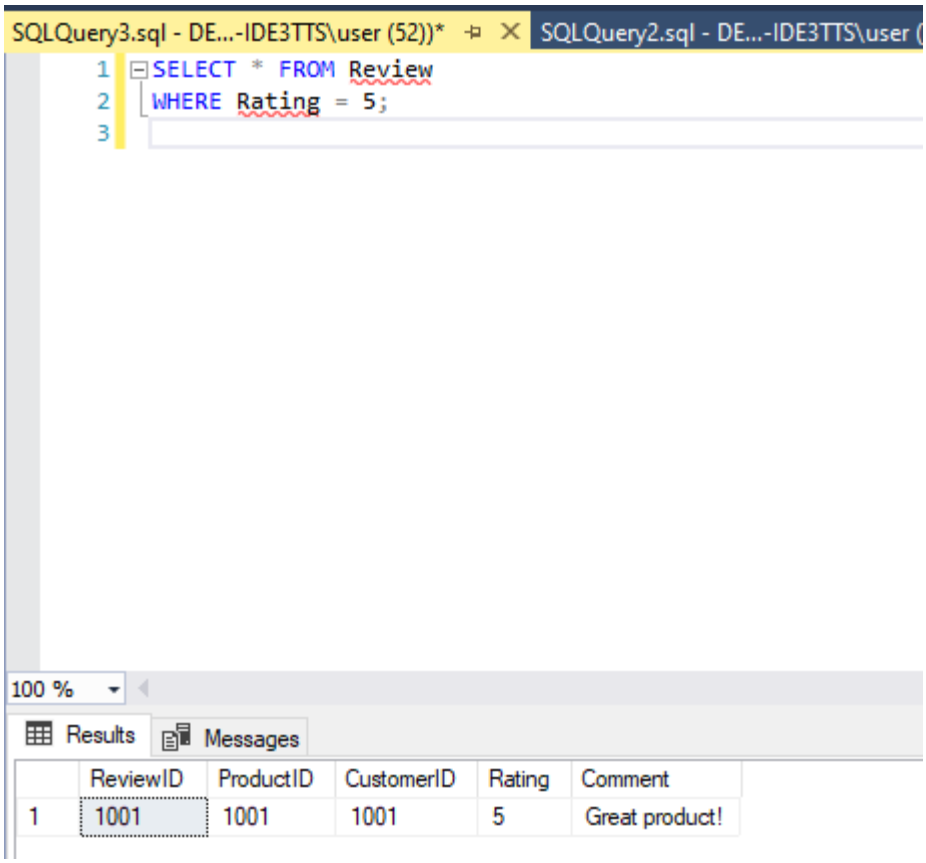


	SellerID	Name	ContactInfo	StoreName	TotalProducts
1	1001	BestElectronics	contact@bestelectronics.com	Best Electronics Store	1
2	1002	TechWorld	contact@techworld.com	Tech World	1
3	1003	SoundGear	contact@soundgear.com	Sound Gear	1
4	1004	TypeIt	contact@typeit.com	TypeIt Keyboards	1
5	1005	ClickNGo	contact@clickngo.com	ClickNGo	1

Retrieve all reviews with a rating of 5:

SELECT * FROM Review

WHERE Rating = 5;



Retrieve the total sales amount per order:

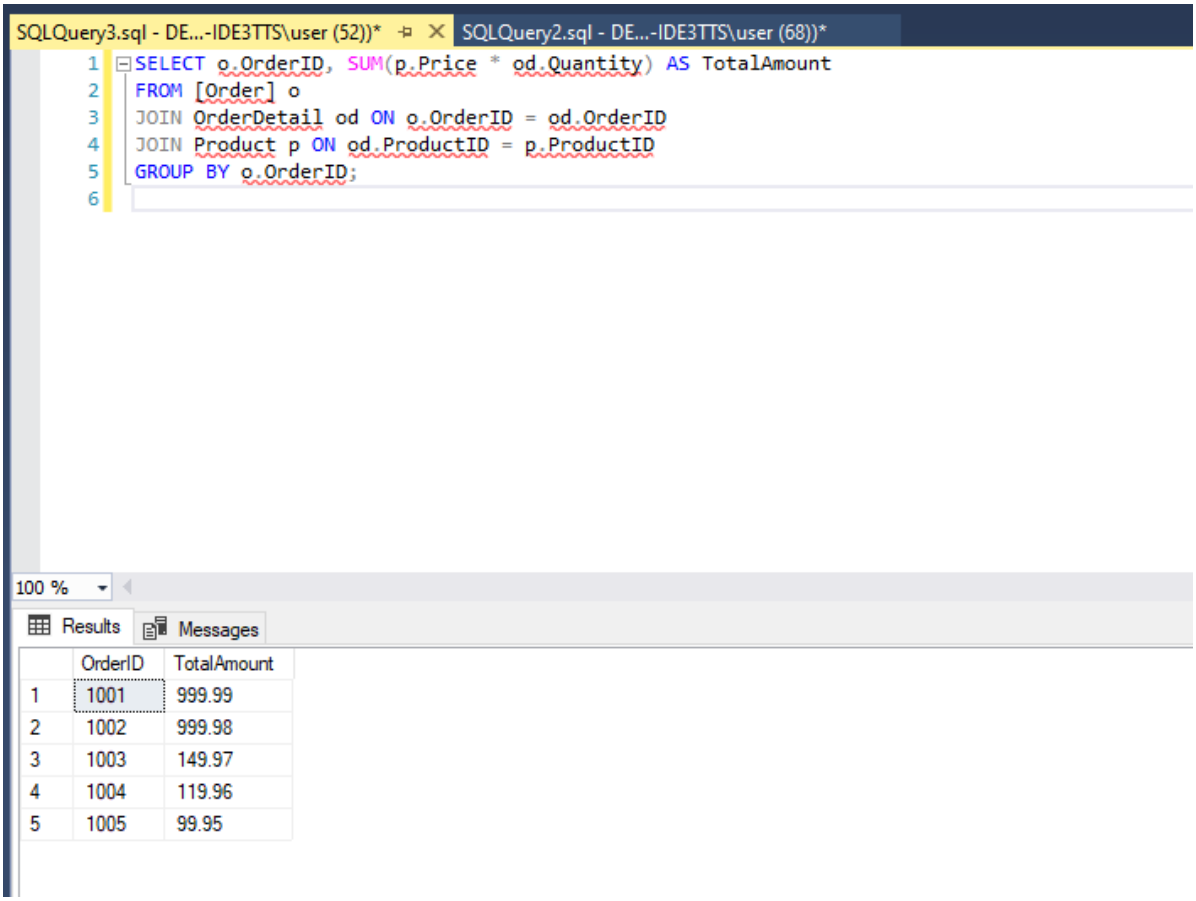
SELECT o.OrderID, SUM(p.Price * od.Quantity) AS TotalAmount

FROM [Order] o

JOIN OrderDetail od ON o.OrderID = od.OrderID

JOIN Product p ON od.ProductID = p.ProductID

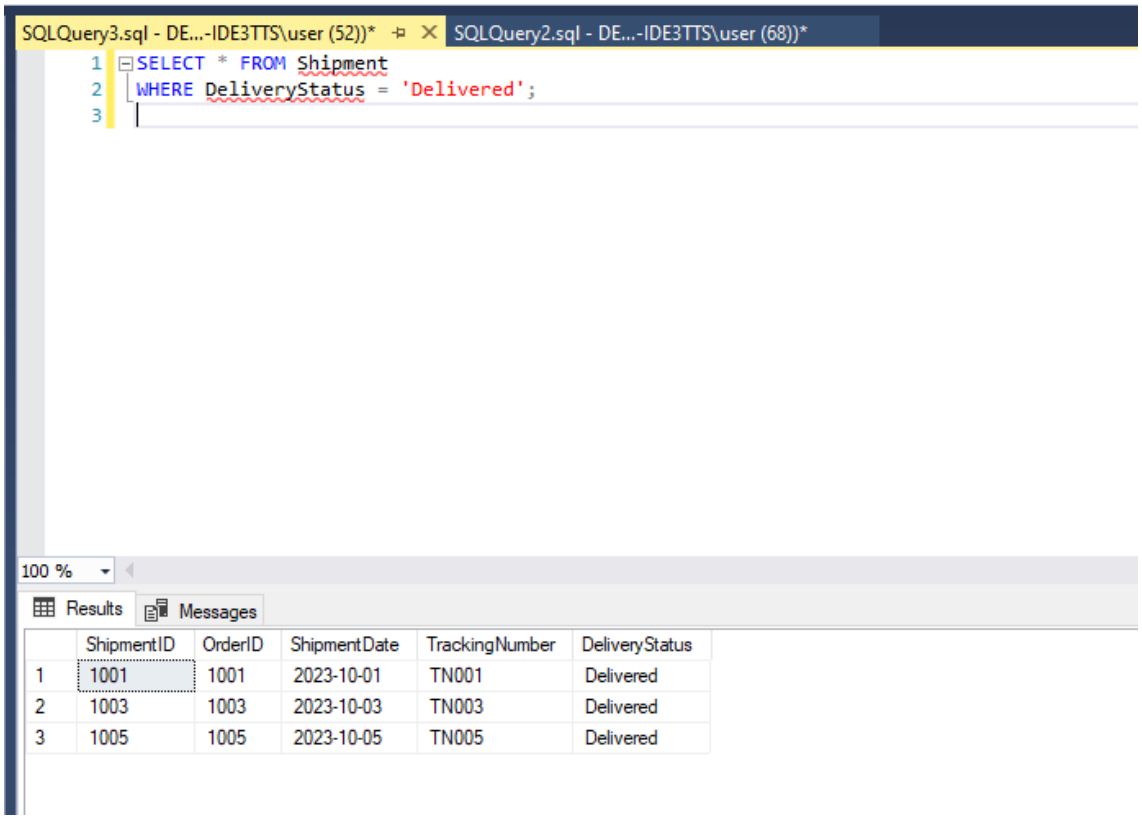
GROUP BY o.OrderID;



Retrieving all shipments that have a 'Delivered' status

SELECT * FROM Shipment

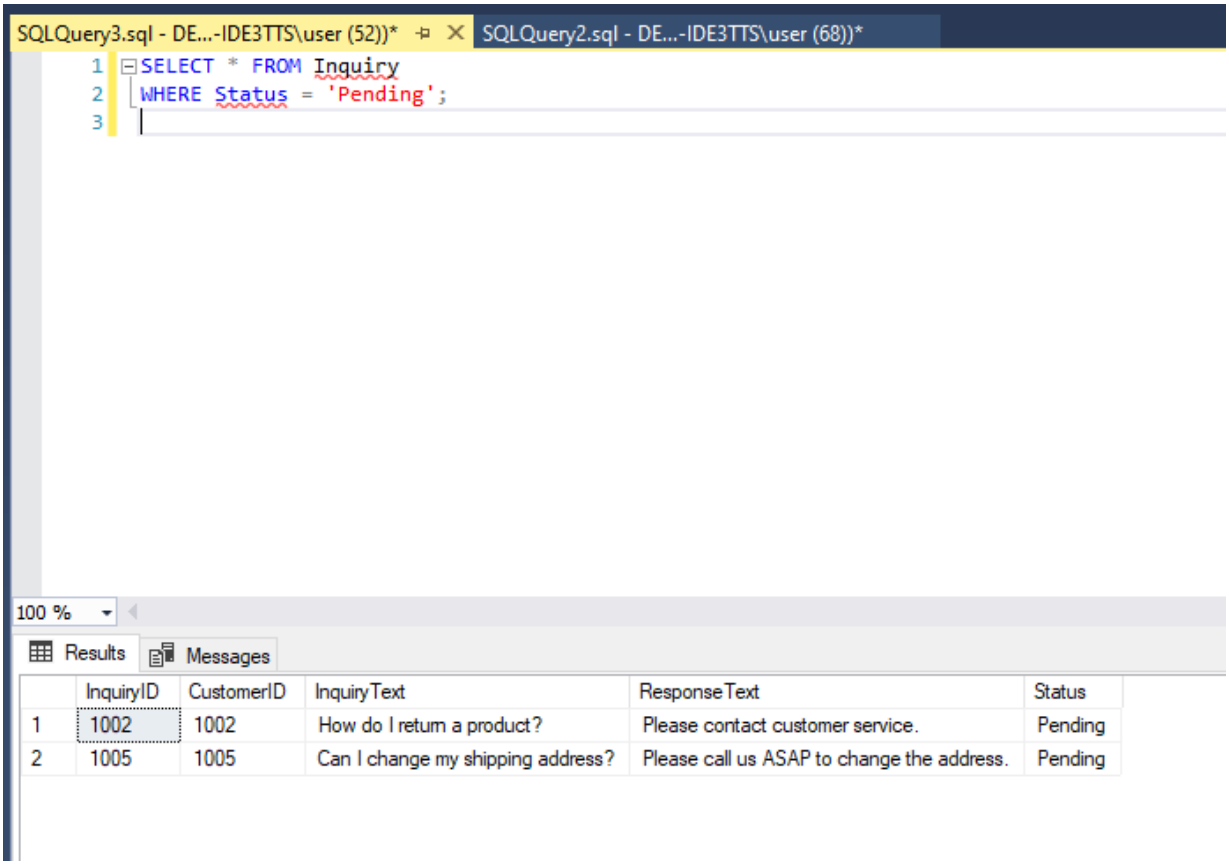
WHERE DeliveryStatus = 'Delivered';



Retrieving all inquiries that are still pending:

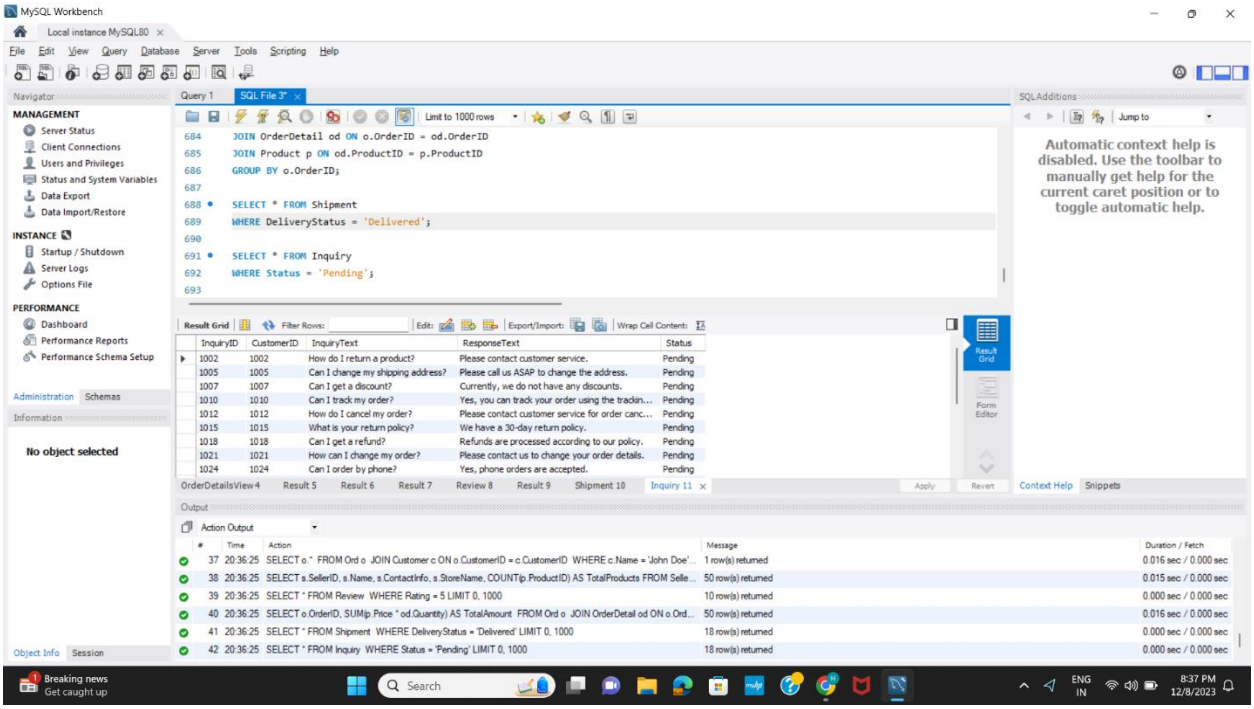
SELECT * FROM Inquiry

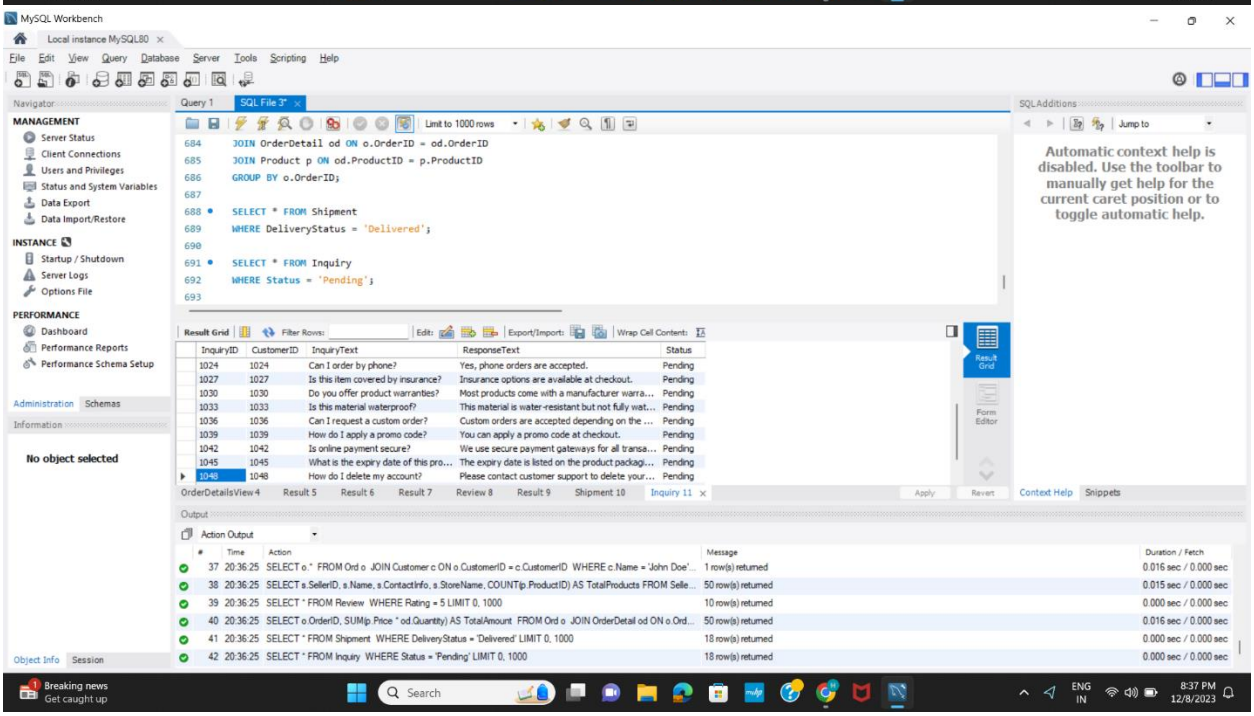
WHERE Status = 'Pending';

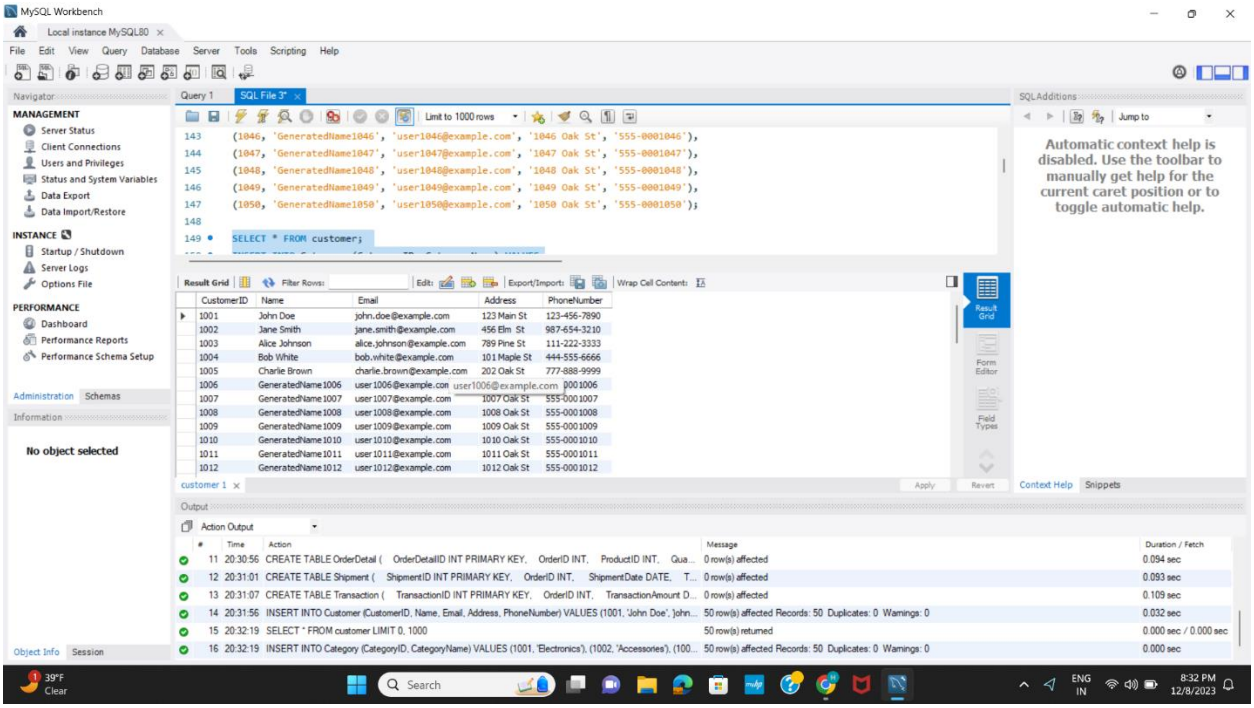

SQLQuery3.sql - DE...-IDE3TTS\user (52))*
SQLQuery2.sql - DE...-IDE3TTS\user (68))*
1 SELECT * FROM Inquiry
2 WHERE Status = 'Pending';
3
100 %
Results
Messages
InquiryID CustomerID InquiryText ResponseText Status
1 1002 1002 How do I return a product? Please contact customer service. Pending
2 1005 1005 Can I change my shipping address? Please call us ASAP to change the address. Pending

Data Population

Population databases are fundamental ingredients to analyses of social and economic change and development. Insofar as these analyses are often the basis for policy making and programme formulation, it is important to have a sound understanding of the strengths and limitations of such databases.






MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
MANAGEMENT
Server Status
Client Connections
Users and Privileges
Status and System Variables
Data Export
Data Import/Restore
INSTANCE
Startup / Shutdown
Server Logs
Options File
PERFORMANCE
Dashboard
Performance Reports
Performance Schema Setup
Administration Schemas
Information
No object selected
Object Info Session
Query 1
SQL File 3*
Limit to 1000 rows
143 (1046, 'GeneratedName1046', 'user1046@example.com', '1046 Oak St', '555-0001046'),
144 (1047, 'GeneratedName1047', 'user1047@example.com', '1047 Oak St', '555-0001047'),
145 (1048, 'GeneratedName1048', 'user1048@example.com', '1048 Oak St', '555-0001048'),
146 (1049, 'GeneratedName1049', 'user1049@example.com', '1049 Oak St', '555-0001049'),
147 (1050, 'GeneratedName1050', 'user1050@example.com', '1050 Oak St', '555-0001050');
148
149 SELECT * FROM customer;
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
CustomerID Name Email Address PhoneNumber
1001 John Doe john.doe@example.com 123 Main St 123-456-7890
1002 Jane Smith jane.smith@example.com 456 Elm St 987-654-3210
1003 Alice Johnson alice.johnson@example.com 789 Pine St 111-222-3333
1004 Bob White bob.white@example.com 101 Maple St 444-555-6666
1005 Charlie Brown charlie.brown@example.com 202 Oak St 777-888-9999
1006 GeneratedName1006 user1006@example.com 1006 Oak St 555-0001006
1007 GeneratedName1007 user1007@example.com 1007 Oak St 555-0001007
1008 GeneratedName1008 user1008@example.com 1008 Oak St 555-0001008
1009 GeneratedName1009 user1009@example.com 1009 Oak St 555-0001009
1010 GeneratedName1010 user1010@example.com 1010 Oak St 555-0001010
1011 GeneratedName1011 user1011@example.com 1011 Oak St 555-0001011
1012 GeneratedName1012 user1012@example.com 1012 Oak St 555-0001012
customer 1
Apply
Revert
Result Grid
Form Editor
Field Types
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
11 20:30:56 CREATE TABLE OrderDetail (OrderDetailID INT PRIMARY KEY, OrderID INT, ProductID INT, Qua... 0 row(s) affected 0.094 sec
12 20:31:01 CREATE TABLE Shipment (ShipmentID INT PRIMARY KEY, OrderID INT, ShipmentDate DATE, T... 0 row(s) affected 0.093 sec
13 20:31:07 CREATE TABLE Transaction (TransactionID INT PRIMARY KEY, OrderID INT, TransactionAmount D... 0 row(s) affected 0.109 sec
14 20:31:56 INSERT INTO Customer (CustomerID, Name, Email, Address, PhoneNumber) VALUES (1001, 'John Doe', 'john... 50 row(s) affected Records: 50 Duplicates: 0 Warnings: 0 0.032 sec
15 20:32:19 SELECT * FROM customer LIMIT 0, 1000 50 row(s) returned 0.000 sec / 0.000 sec
16 20:32:19 INSERT INTO Category (CategoryID, CategoryName) VALUES (1001, 'Electronics'), (1002, 'Accessories'), (100... 50 row(s) affected Records: 50 Duplicates: 0 Warnings: 0 0.000 sec
39°F Clear
Search
ENG IN
8:32 PM 12/8/2023

SQL Statement

A SQL statement is a set of instruction that consists of identifiers, parameters, variables, names, data types, and SQL reserved words that compiles successfully

Complex Queries

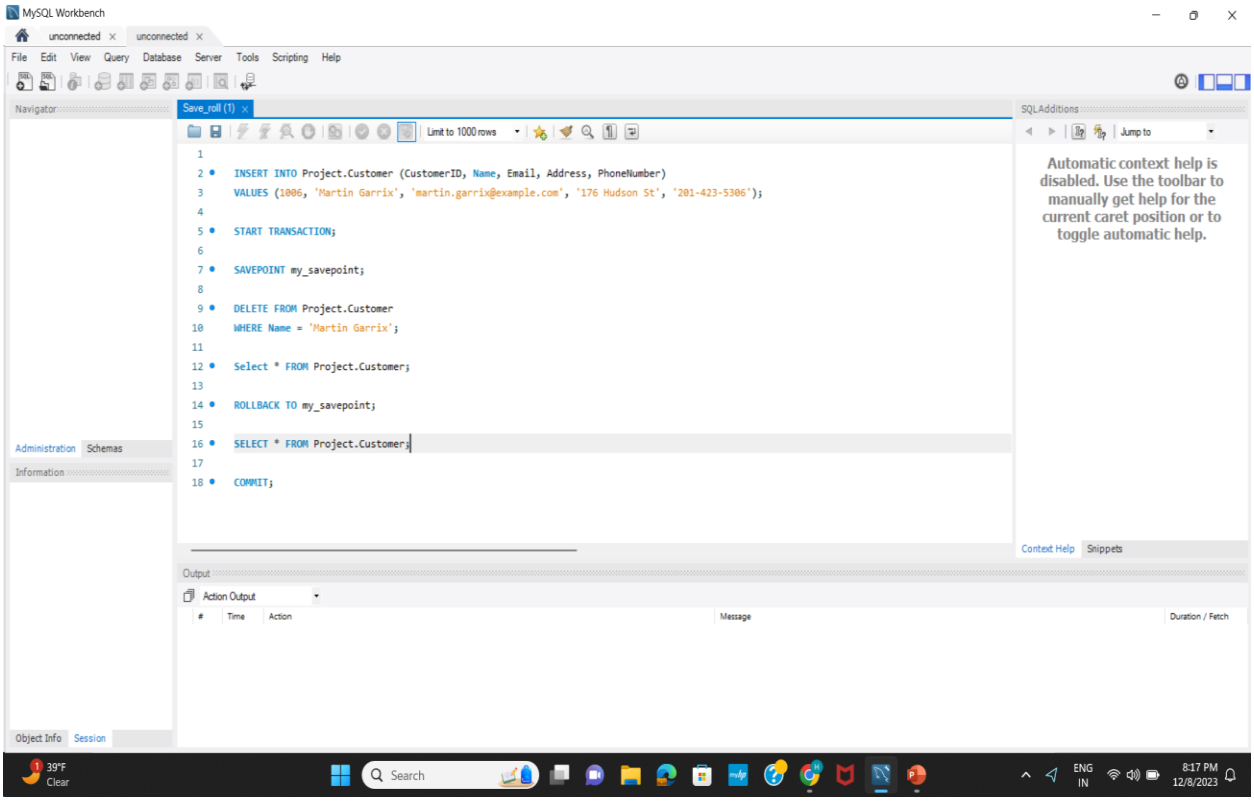
A complex query in SQL is one that has more complexity and that you need to give some more thought to when you design and write it.

4 major types of SQL queries

- DDL – Data Definition Language.
- DQL – Data Query Language.
- DML – Data Manipulation Language.
- DCL – Data Control Language.
- TCL – Transaction Control Language.

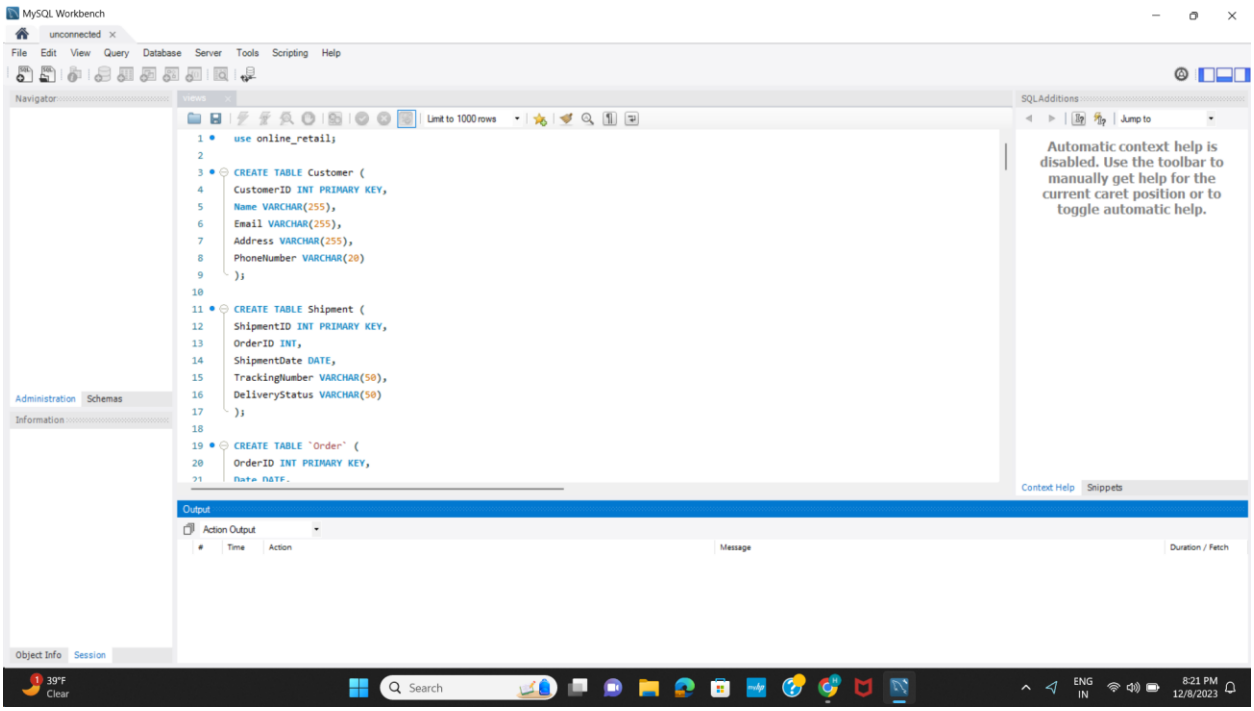
Savepoints and Rollback Operations

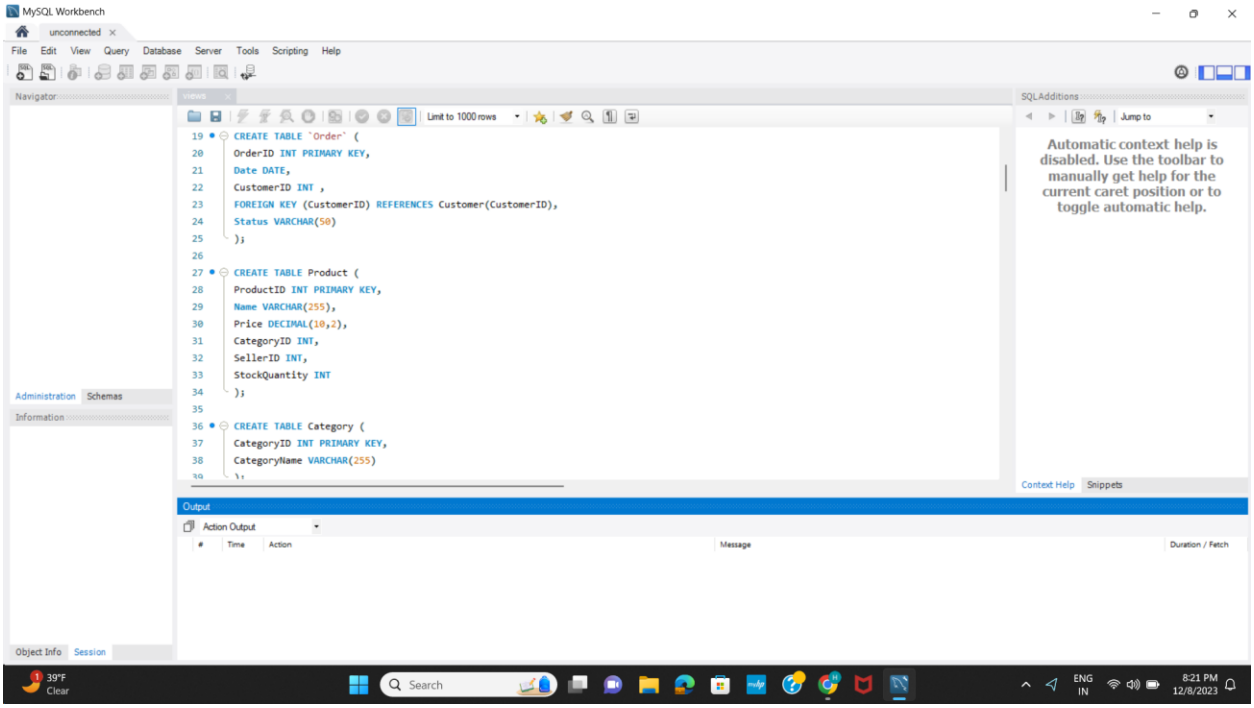
The savepoint remains valid and can be rolled back to again later if needed. When an operation is rolled back, any locks that are acquired by the operation are also rolled back. ROLLBACK TO SAVEPOINT implicitly destroys all savepoints that were established after the named savepoint.

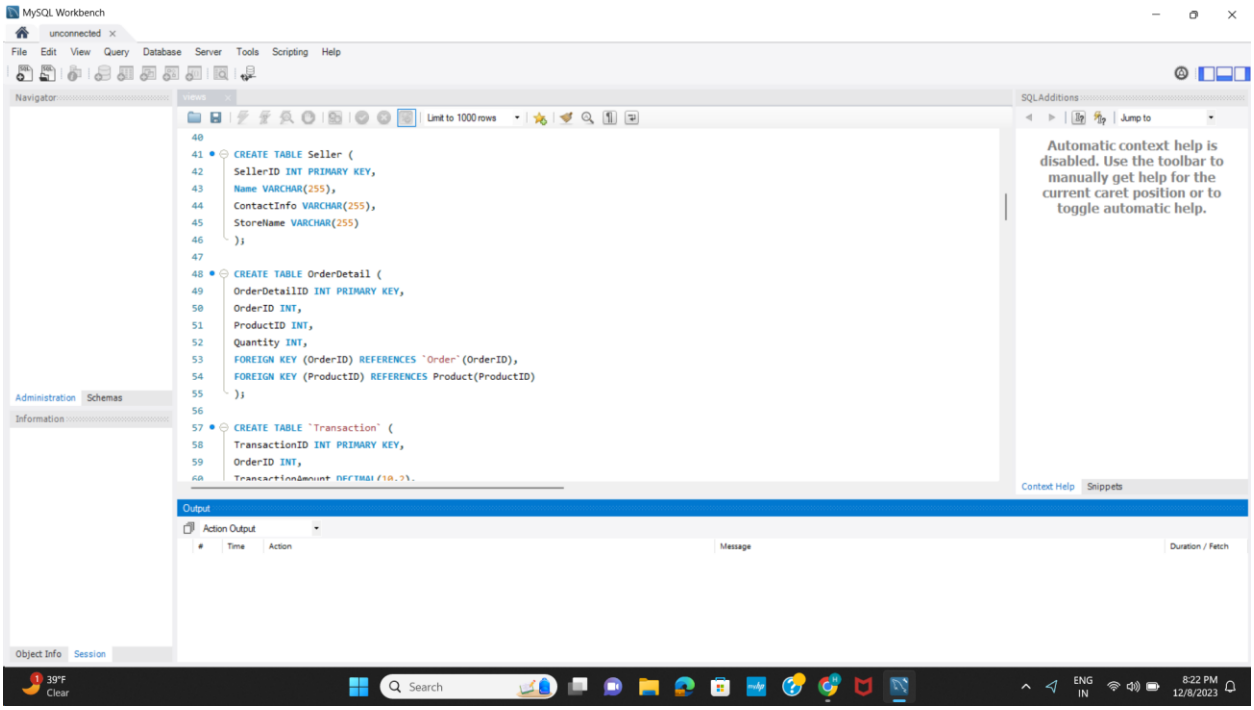


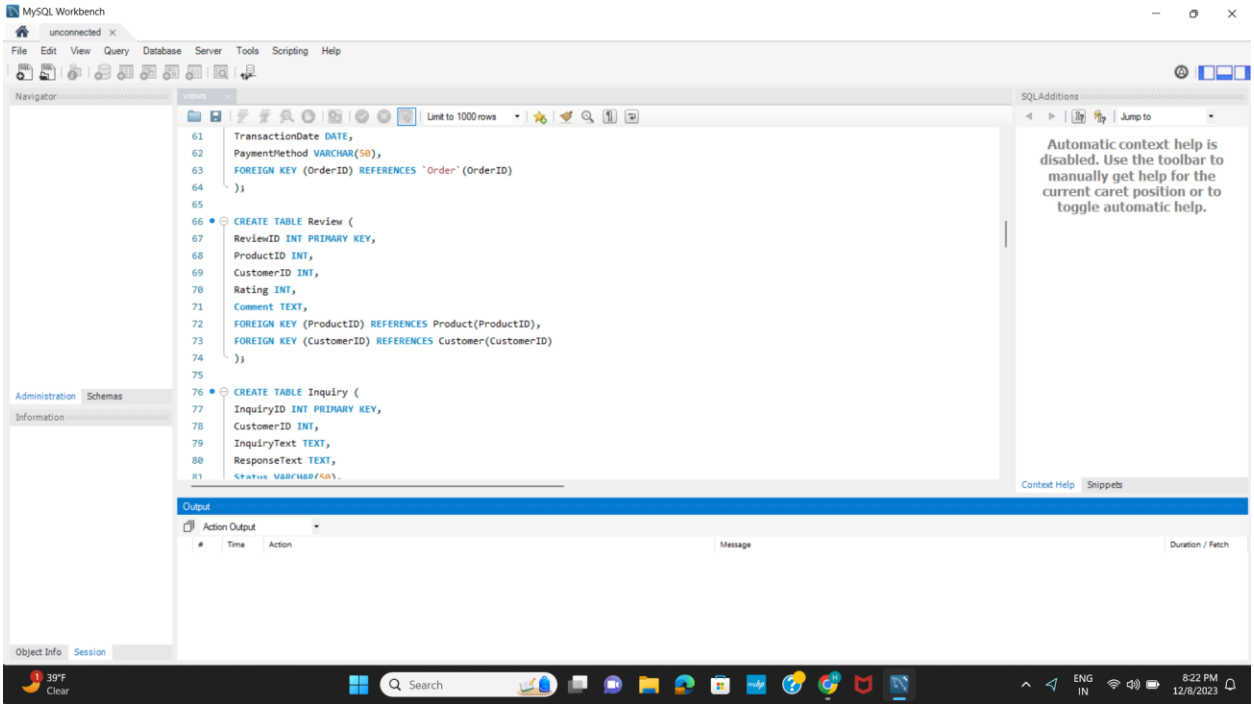
Views

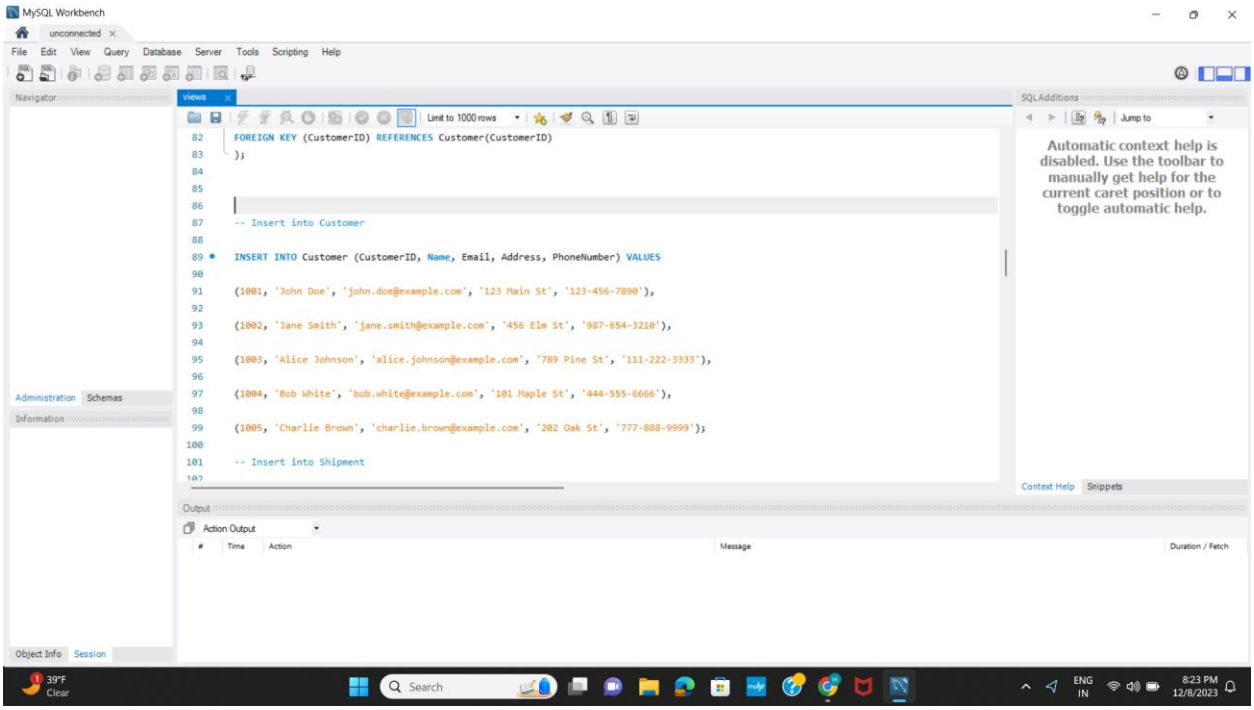
In SQL, a view is a virtual table based on the result-set of an SQL statement. A view contains rows and columns, just like a real table. The fields in a view are fields from one or more real tables in the database.




MySQL Workbench
unconnected
File Edit View Query Database Server Tools Scripting Help
Navigator
Limit to 1000 rows
SQLAdditions
Jump to
19 CREATE TABLE `Order` (
20 OrderID INT PRIMARY KEY,
21 Date DATE,
22 CustomerID INT ,
23 FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID),
24 Status VARCHAR(50)
25);
26
27 CREATE TABLE Product (
28 ProductID INT PRIMARY KEY,
29 Name VARCHAR(255),
30 Price DECIMAL(10,2),
31 CategoryID INT,
32 SellerID INT,
33 StockQuantity INT
34);
35
36 CREATE TABLE Category (
37 CategoryID INT PRIMARY KEY,
38 CategoryName VARCHAR(255)
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Administration Schemas
Information
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
Object Info Session
39°F Clear
Search
ENG IN
8:21 PM 12/8/2023


MySQL Workbench
unconnected
File Edit View Query Database Server Tools Scripting Help
Navigator
Limit to 1000 rows
SQLAdditions
Jump to
40
41 CREATE TABLE Seller (
42 SellerID INT PRIMARY KEY,
43 Name VARCHAR(255),
44 ContactInfo VARCHAR(255),
45 StoreName VARCHAR(255)
46);
47
48 CREATE TABLE OrderDetail (
49 OrderDetailID INT PRIMARY KEY,
50 OrderID INT,
51 ProductID INT,
52 Quantity INT,
53 FOREIGN KEY (OrderID) REFERENCES `Order`(OrderID),
54 FOREIGN KEY (ProductID) REFERENCES Product(ProductID)
55);
56
57 CREATE TABLE `Transaction` (
58 TransactionID INT PRIMARY KEY,
59 OrderID INT,
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Administration Schemas
Information
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
Object Info Session
39°F Clear
Search
ENG IN
8:22 PM 12/8/2023


MySQL Workbench
unconnected
File Edit View Query Database Server Tools Scripting Help
Navigator
views
Limit to 1000 rows
SQLAdditions
Jump to
61 TransactionDate DATE,
62 PaymentMethod VARCHAR(50),
63 FOREIGN KEY (OrderID) REFERENCES `Order`(OrderID)
64);
65
66 CREATE TABLE Review (
67 ReviewID INT PRIMARY KEY,
68 ProductID INT,
69 CustomerID INT,
70 Rating INT,
71 Comment TEXT,
72 FOREIGN KEY (ProductID) REFERENCES Product(ProductID),
73 FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID)
74);
75
76 CREATE TABLE Inquiry (
77 InquiryID INT PRIMARY KEY,
78 CustomerID INT,
79 InquiryText TEXT,
80 ResponseText TEXT,
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Administration Schemas
Information
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
Object Info Session
39°F Clear
Search
ENG IN
8:22 PM 12/8/2023


MySQL Workbench
unconnected
File Edit View Query Database Server Tools Scripting Help
Navigator
views
Limit to 1000 rows
SQLAdditions
Jump to
82 FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID)
83);
84
85
86
87 -- Insert into Customer
88
89 INSERT INTO Customer (CustomerID, Name, Email, Address, PhoneNumber) VALUES
90
91 (1001, 'John Doe', 'john.doe@example.com', '123 Main St', '123-456-7890'),
92
93 (1002, 'Jane Smith', 'jane.smith@example.com', '456 Elm St', '987-654-3210'),
94
95 (1003, 'Alice Johnson', 'alice.johnson@example.com', '789 Pine St', '111-222-3333'),
96
97 (1004, 'Bob White', 'bob.white@example.com', '101 Maple St', '444-555-6666'),
98
99 (1005, 'Charlie Brown', 'charlie.brown@example.com', '202 Oak St', '777-888-9999');
100
101 -- Insert into Shipment
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Administration Schemas
Information
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
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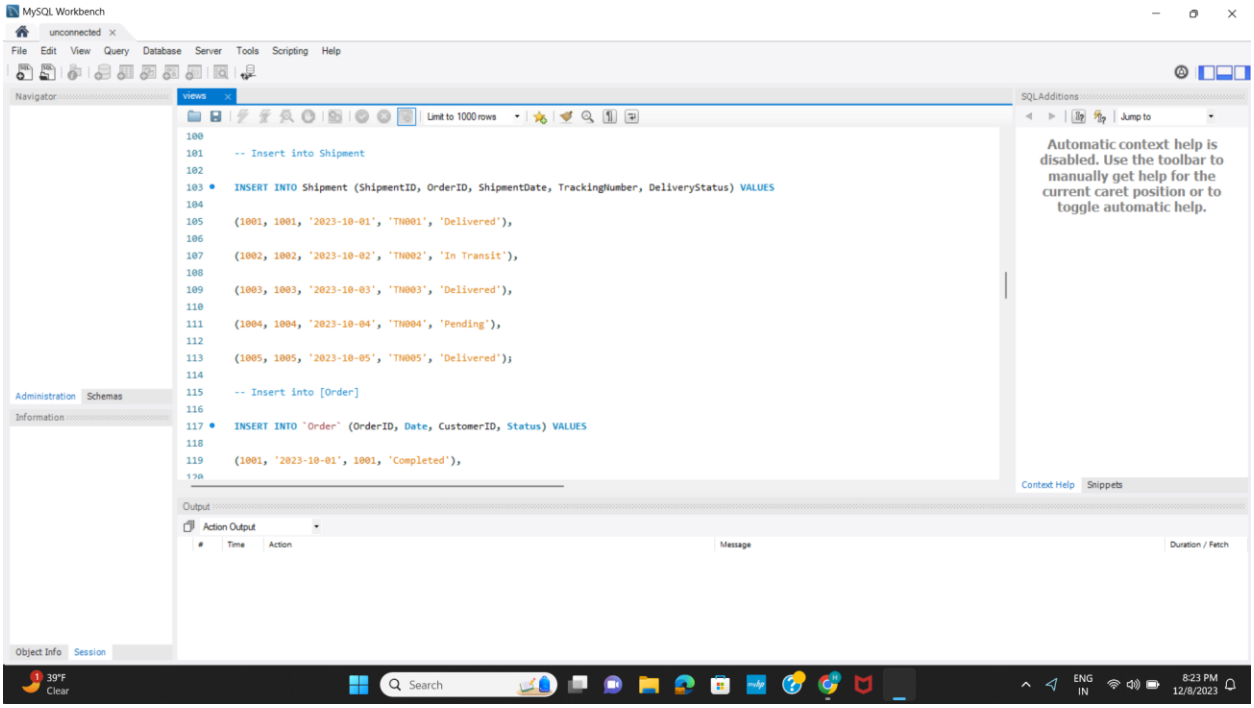
MySQL Workbench
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File Edit View Query Database Server Tools Scripting Help
Navigator
views
Limit to 1000 rows
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
100
101 -- Insert into Shipment
102
103 • INSERT INTO Shipment (ShipmentID, OrderID, ShipmentDate, TrackingNumber, DeliveryStatus) VALUES
104
105 (1001, 1001, '2023-10-01', 'TN001', 'Delivered'),
106
107 (1002, 1002, '2023-10-02', 'TN002', 'In Transit'),
108
109 (1003, 1003, '2023-10-03', 'TN003', 'Delivered'),
110
111 (1004, 1004, '2023-10-04', 'TN004', 'Pending'),
112
113 (1005, 1005, '2023-10-05', 'TN005', 'Delivered');
114
115 -- Insert into [Order]
116
117 • INSERT INTO `Order` (OrderID, Date, CustomerID, Status) VALUES
118
119 (1001, '2023-10-01', 1001, 'Completed'),
Administration Schemas
Information
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
Object Info Session
39°F Clear
Search
ENG IN
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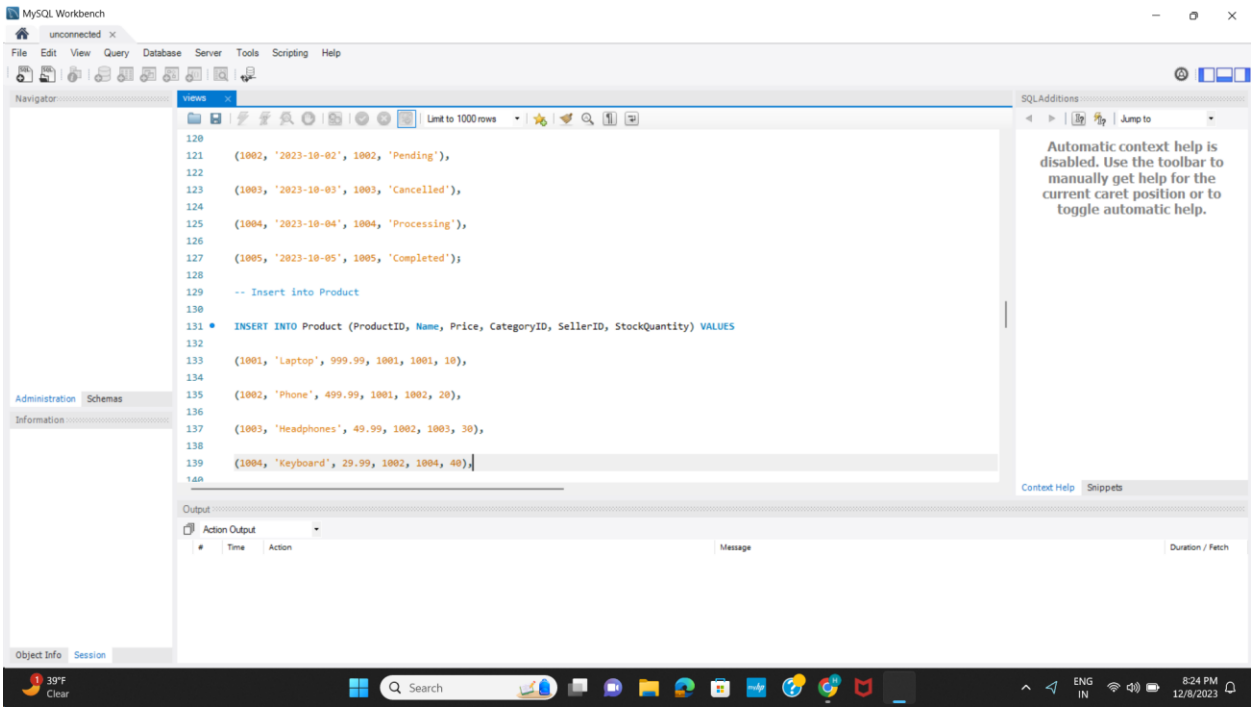
MySQL Workbench
unconnected
File Edit View Query Database Server Tools Scripting Help
Navigator
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Limit to 1000 rows
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
120
121 (1002, '2023-10-02', 1002, 'Pending'),
122
123 (1003, '2023-10-03', 1003, 'Cancelled'),
124
125 (1004, '2023-10-04', 1004, 'Processing'),
126
127 (1005, '2023-10-05', 1005, 'Completed');
128
129 -- Insert into Product
130
131 • INSERT INTO Product (ProductID, Name, Price, CategoryID, SellerID, StockQuantity) VALUES
132
133 (1001, 'Laptop', 999.99, 1001, 1001, 10),
134
135 (1002, 'Phone', 499.99, 1001, 1002, 20),
136
137 (1003, 'Headphones', 49.99, 1002, 1003, 30),
138
139 (1004, 'Keyboard', 29.99, 1002, 1004, 40);
Administration Schemas
Information
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
Object Info Session
39°F Clear
Search
ENG IN
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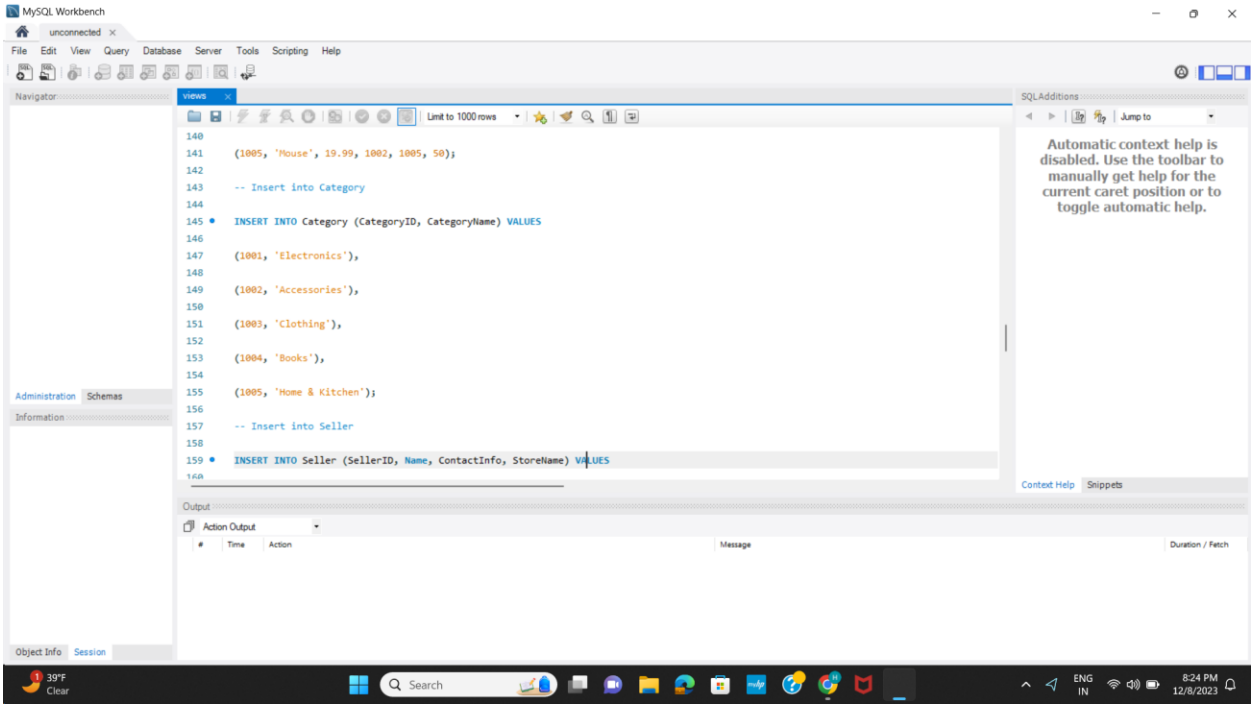
MySQL Workbench
unconnected
File Edit View Query Database Server Tools Scripting Help
Navigator
views
Limit to 1000 rows
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
(1005, 'Mouse', 19.99, 1002, 1005, 50);
-- Insert into Category
INSERT INTO Category (CategoryID, CategoryName) VALUES
(1001, 'Electronics'),
(1002, 'Accessories'),
(1003, 'Clothing'),
(1004, 'Books'),
(1005, 'Home & Kitchen');
-- Insert into Seller
INSERT INTO Seller (SellerID, Name, ContactInfo, StoreName) VALUES
Administration Schemas
Information
Object Info Session
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
39°F Clear
Search
ENG IN
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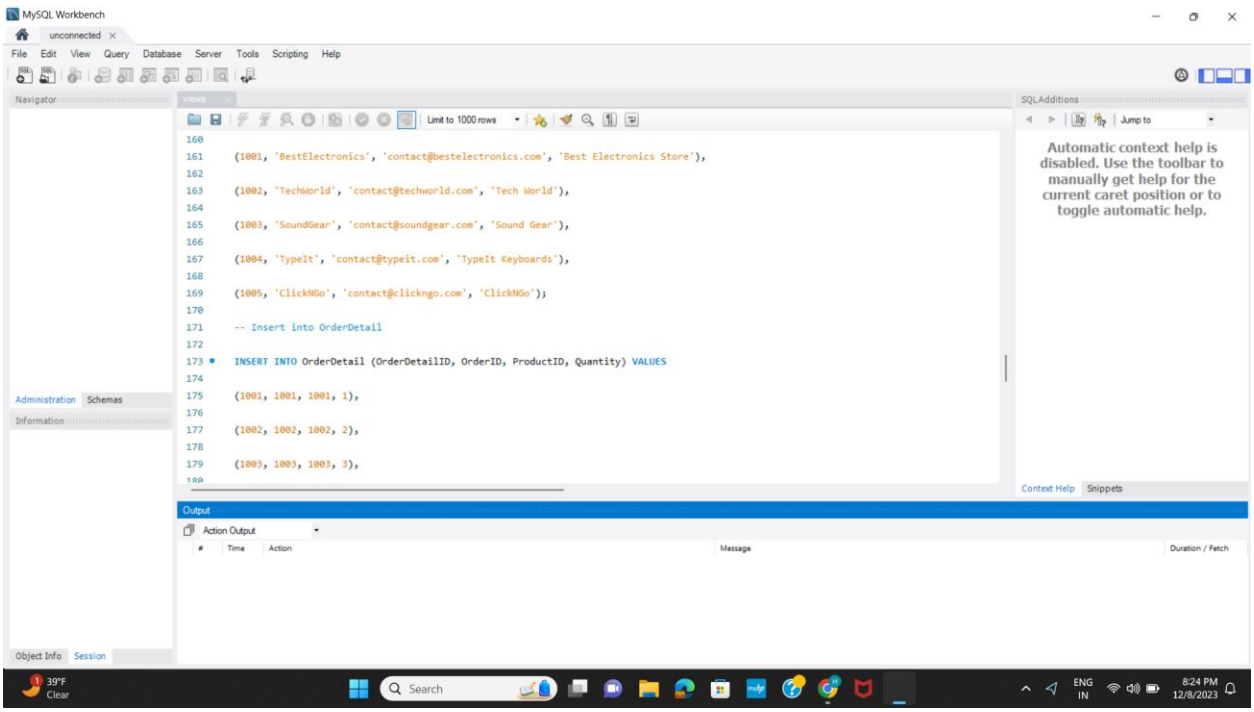
MySQL Workbench
unconnected
File Edit View Query Database Server Tools Scripting Help
Navigator
Limit to 1000 rows
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
(1001, 'BestElectronics', 'contact@bestelectronics.com', 'Best Electronics Store'),
(1002, 'TechWorld', 'contact@techworld.com', 'Tech World'),
(1003, 'SoundGear', 'contact@soundgear.com', 'Sound Gear'),
(1004, 'TypeIt', 'contact@typeit.com', 'TypeIt Keyboards'),
(1005, 'ClickNGo', 'contact@clickngo.com', 'ClickNGo');
-- Insert into OrderDetail
INSERT INTO OrderDetail (OrderDetailID, OrderID, ProductID, Quantity) VALUES
(1001, 1001, 1001, 1),
(1002, 1002, 1002, 2),
(1003, 1003, 1003, 3),
Administration Schemas
Information
Object Info Session
Context Help Snippets
Output
Action Output
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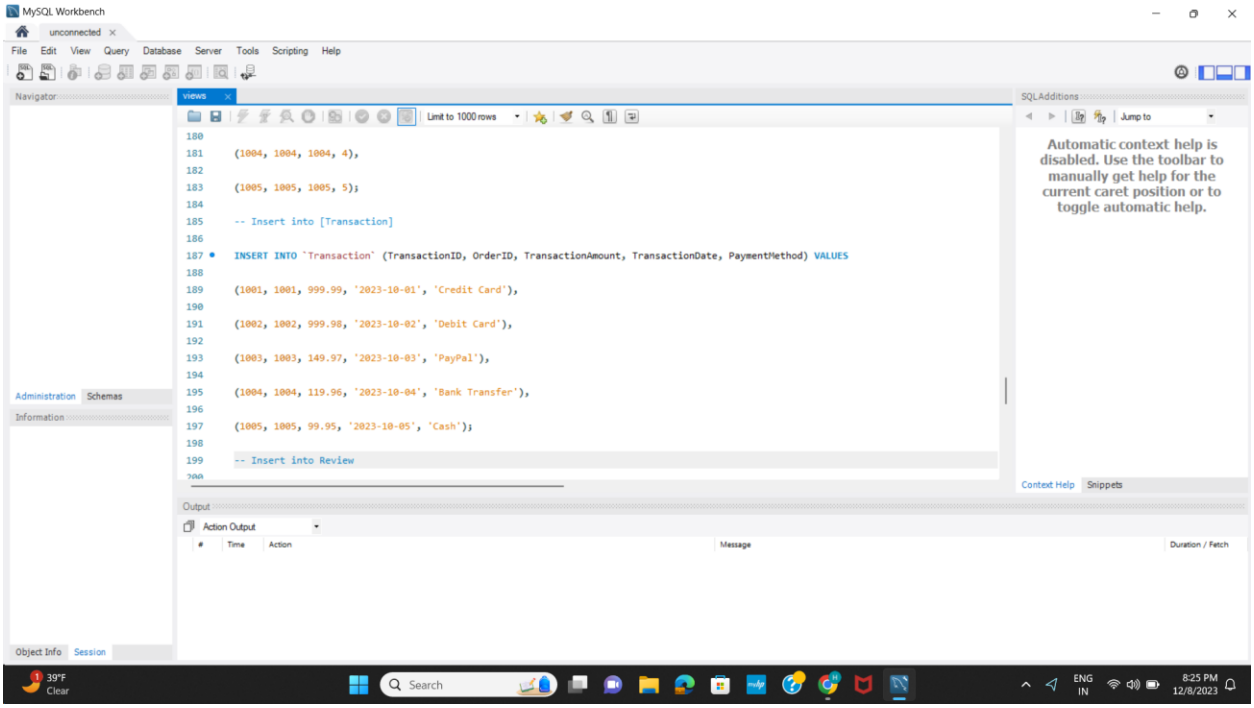
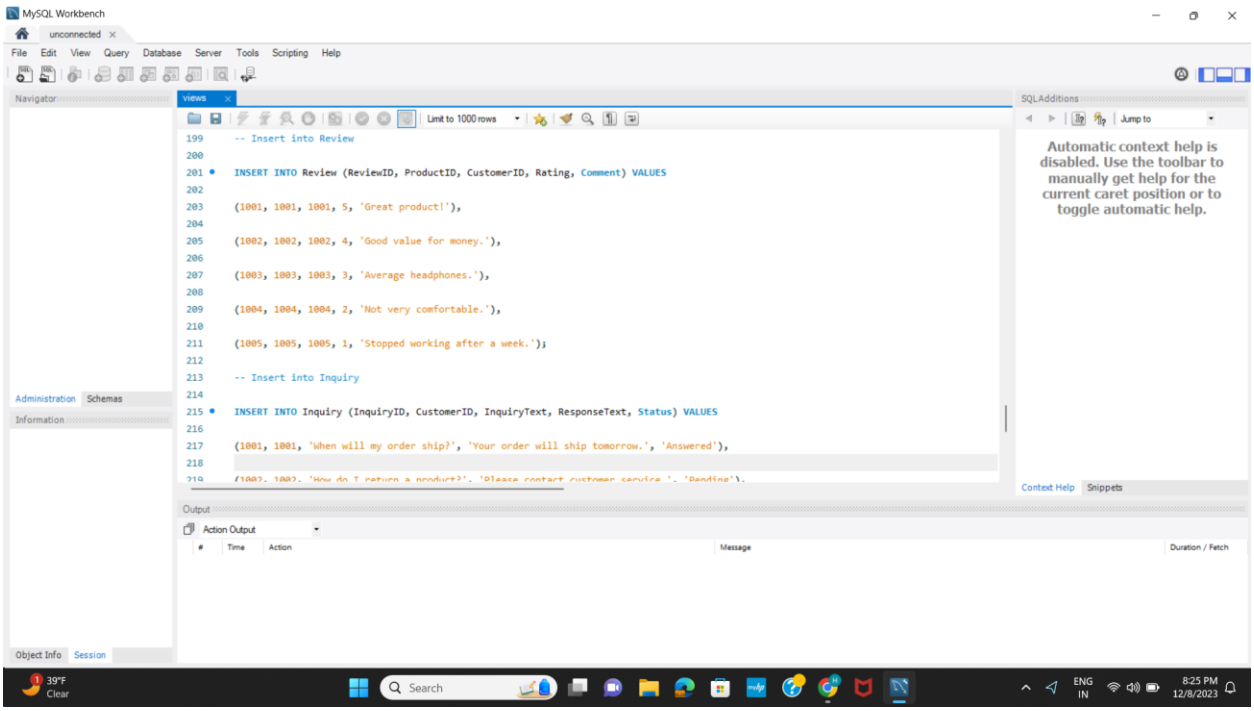
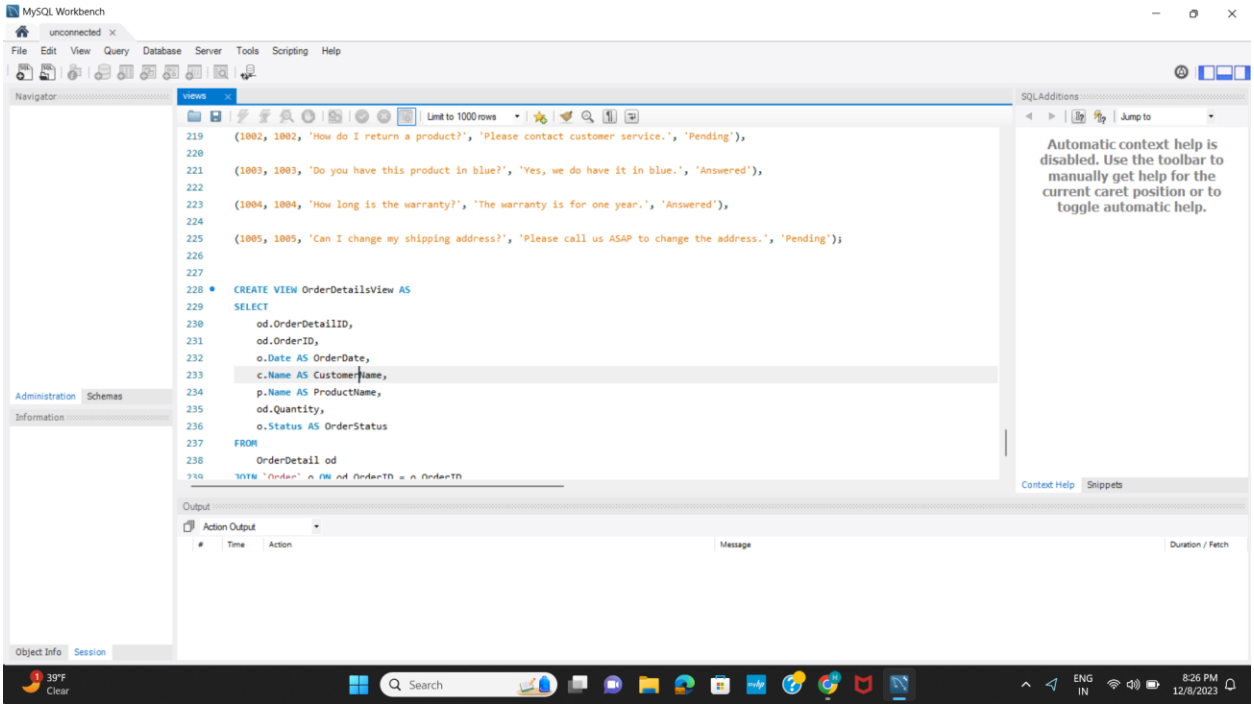
39°F Clear
Search
ENG IN
8:24 PM 12/8/2023




```
180
181     (1004, 1004, 1004, 4),
182
183     (1005, 1005, 1005, 5);
184
185     -- Insert into [Transaction]
186
187 •   INSERT INTO `Transaction` (TransactionID, OrderID, TransactionAmount, TransactionDate, PaymentMethod) VALUES
188
189     (1001, 1001, 999.99, '2023-10-01', 'Credit Card'),
190
191     (1002, 1002, 999.98, '2023-10-02', 'Debit Card'),
192
193     (1003, 1003, 149.97, '2023-10-03', 'PayPal'),
194
195     (1004, 1004, 119.96, '2023-10-04', 'Bank Transfer'),
196
197     (1005, 1005, 99.95, '2023-10-05', 'Cash');
198
199     -- Insert into Review
```




```
199     -- Insert into Review
200
201 •   INSERT INTO Review (ReviewID, ProductID, CustomerID, Rating, Comment) VALUES
202
203     (1001, 1001, 1001, 5, 'Great product!'),
204
205     (1002, 1002, 1002, 4, 'Good value for money.'),
206
207     (1003, 1003, 1003, 3, 'Average headphones.'),
208
209     (1004, 1004, 1004, 2, 'Not very comfortable.'),
210
211     (1005, 1005, 1005, 1, 'Stopped working after a week.');
212
213     -- Insert into Inquiry
214
215 •   INSERT INTO Inquiry (InquiryID, CustomerID, InquiryText, ResponseText, Status) VALUES
216
217     (1001, 1001, 'When will my order ship?', 'Your order will ship tomorrow.', 'Answered'),
218
219     (1002, 1002, 'How do I return a product?', 'Please contact customer service.', 'Pending');
```



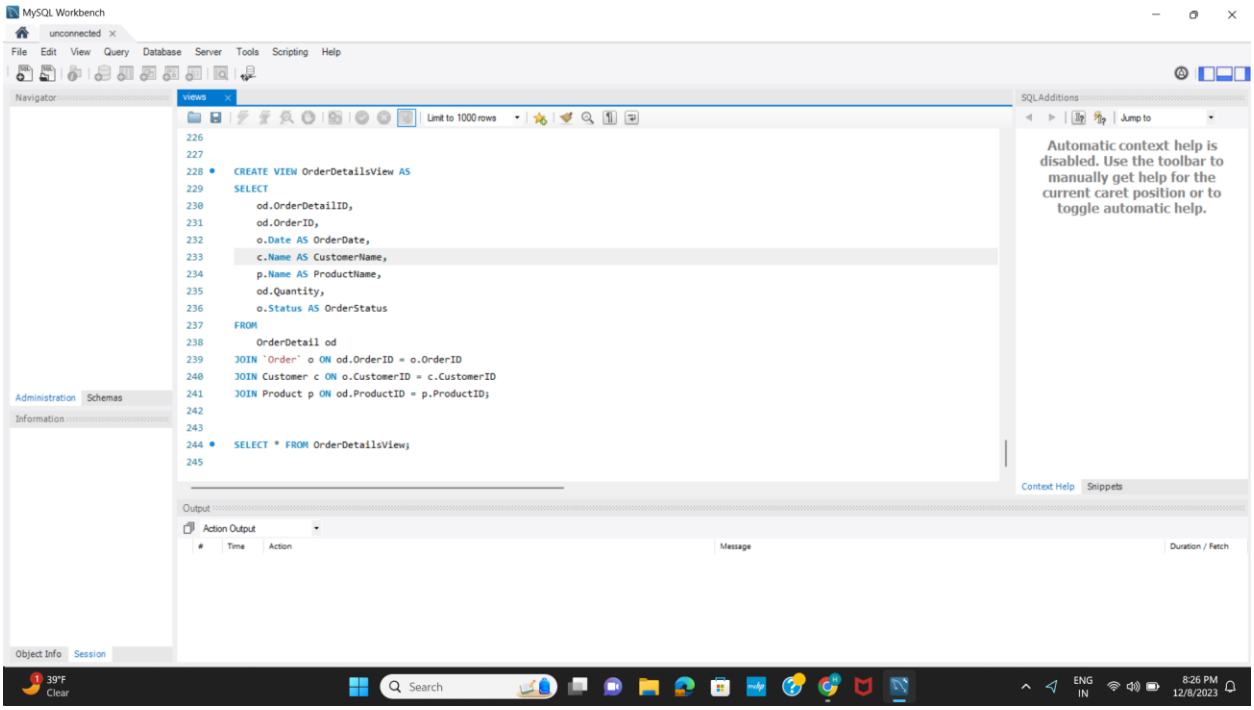

```
(1002, 1002, 'How do I return a product?', 'Please contact customer service.', 'Pending'),

(1003, 1003, 'Do you have this product in blue?', 'Yes, we do have it in blue.', 'Answered'),

(1004, 1004, 'How long is the warranty?', 'The warranty is for one year.', 'Answered'),

(1005, 1005, 'Can I change my shipping address?', 'Please call us ASAP to change the address.', 'Pending');


CREATE VIEW OrderDetailsView AS
SELECT
    od.OrderDetailID,
    od.OrderID,
    o.Date AS OrderDate,
    c.Name AS CustomerName,
    p.Name AS ProductName,
    od.Quantity,
    o.Status AS OrderStatus
FROM
    OrderDetail od
JOIN `Order` o ON od.OrderID = o.OrderID
```




```
CREATE VIEW OrderDetailsView AS
SELECT
    od.OrderDetailID,
    od.OrderID,
    o.Date AS OrderDate,
    c.Name AS CustomerName,
    p.Name AS ProductName,
    od.Quantity,
    o.Status AS OrderStatus
FROM
    OrderDetail od
JOIN `Order` o ON od.OrderID = o.OrderID
JOIN Customer c ON o.CustomerID = c.CustomerID
JOIN Product p ON od.ProductID = p.ProductID;


SELECT * FROM OrderDetailsView;
```