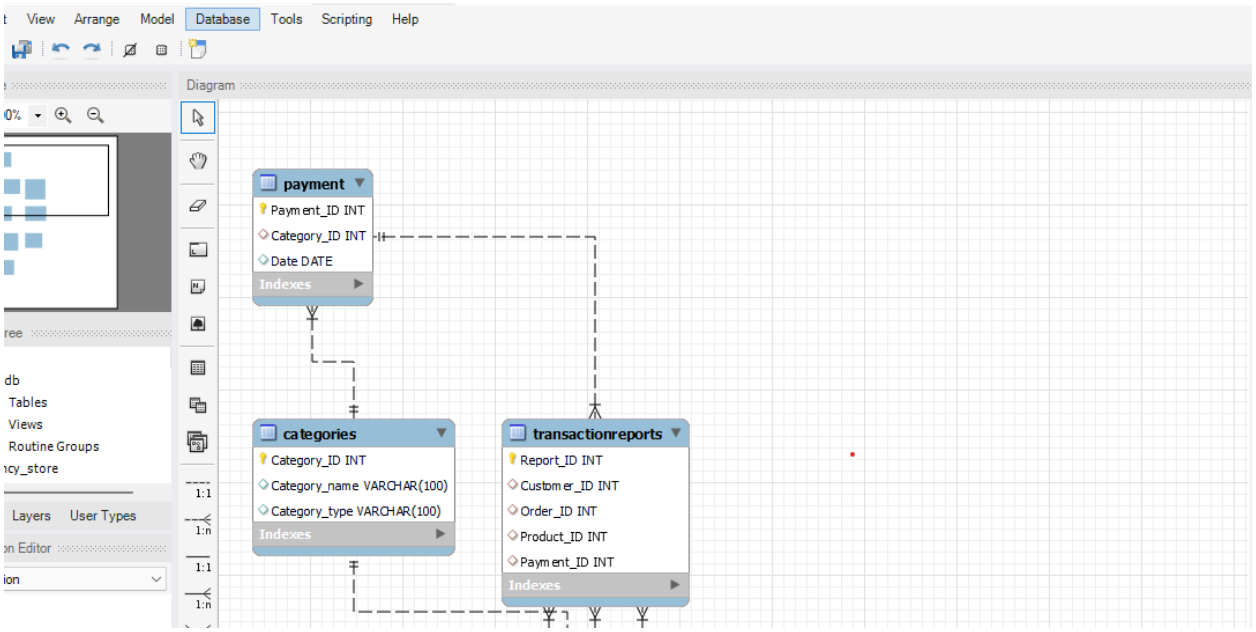
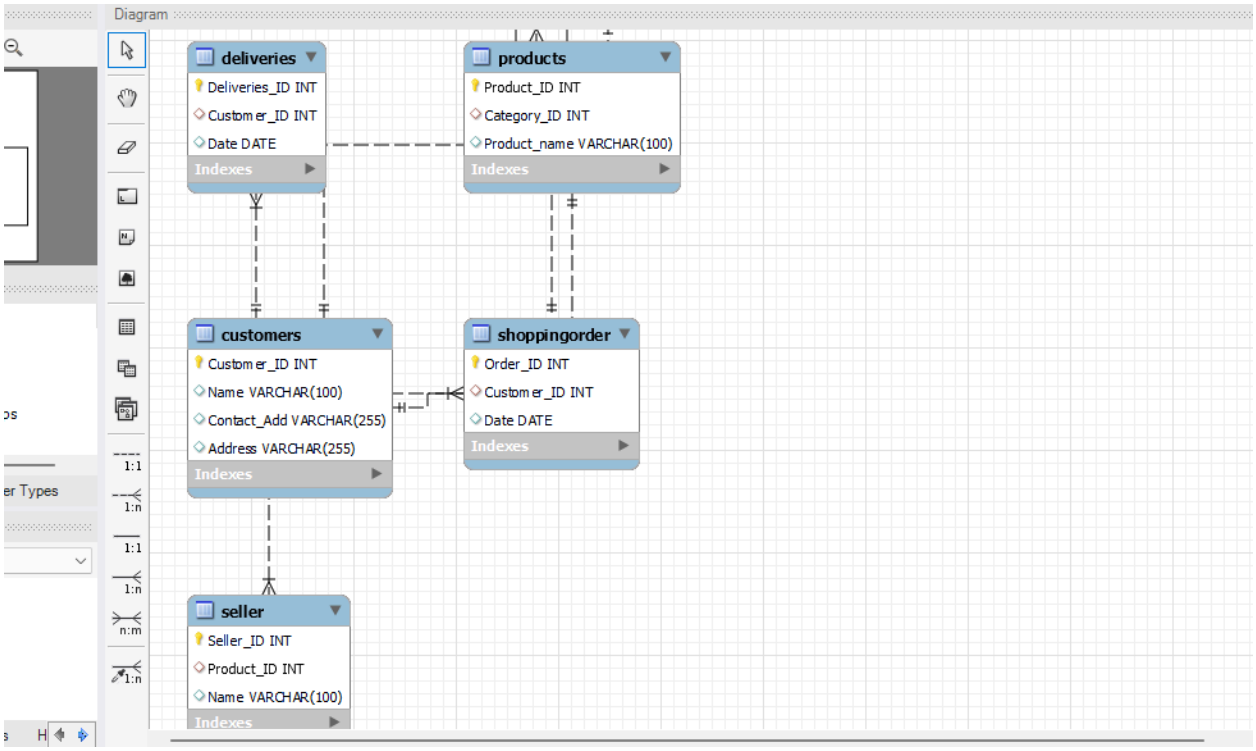
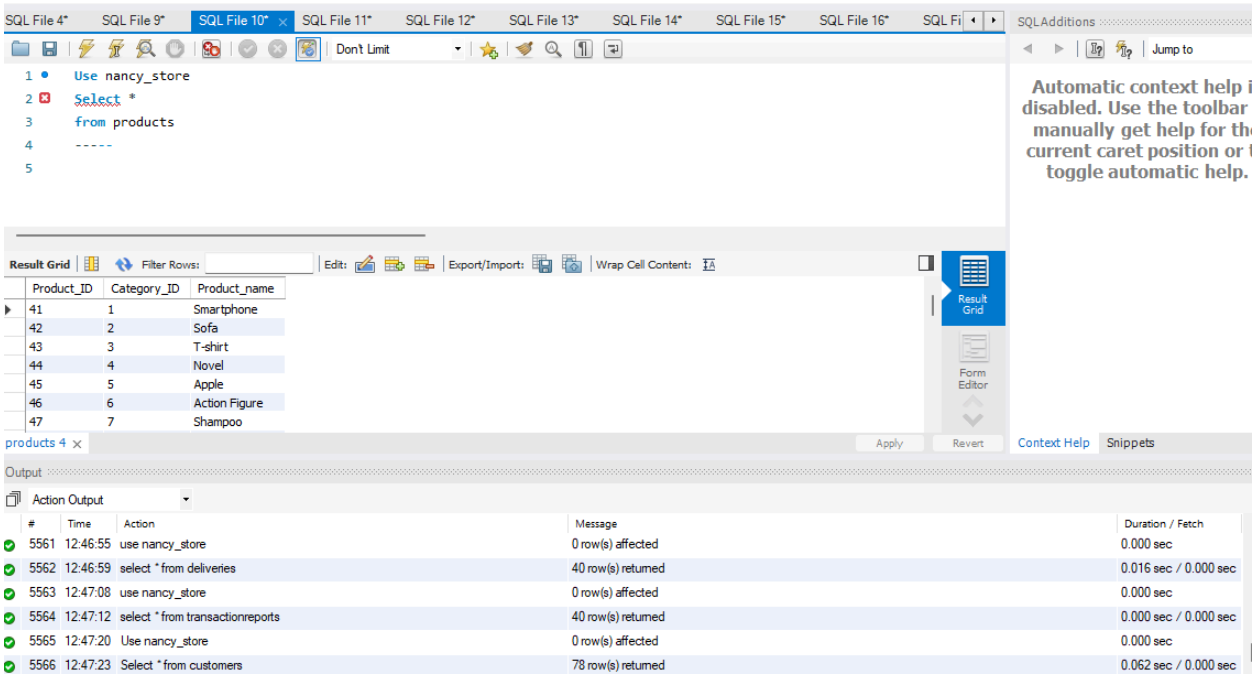
REPORT

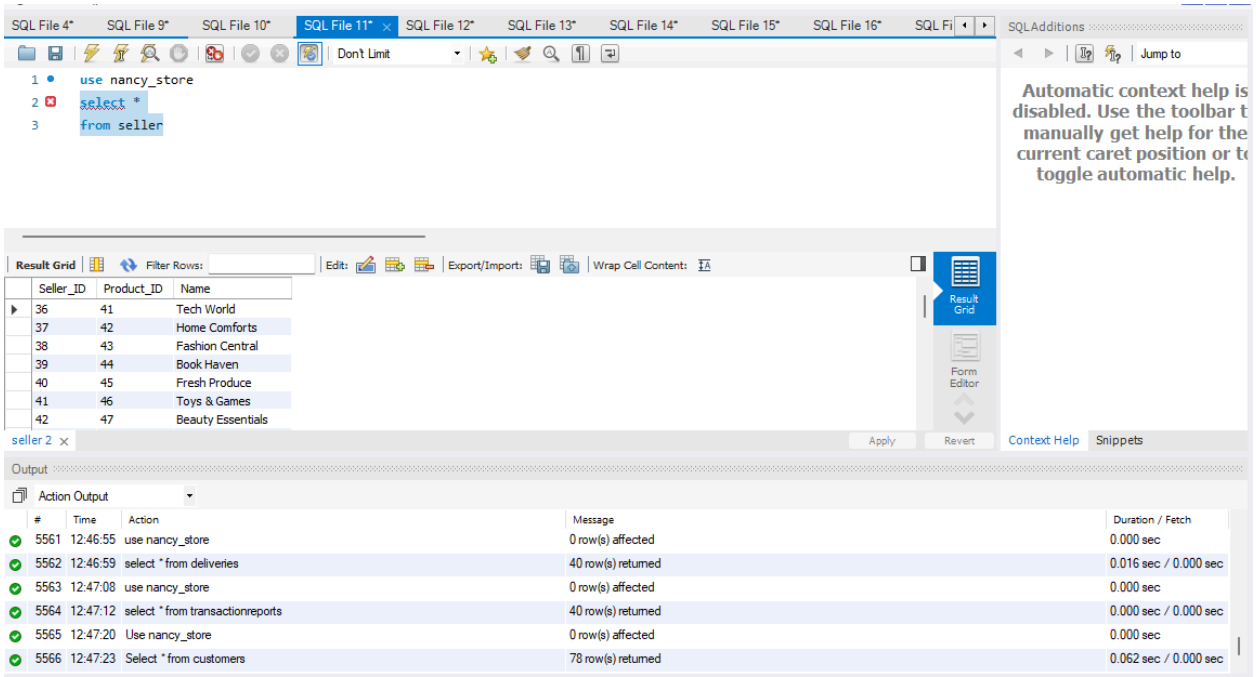
ERD Diagram in SQL

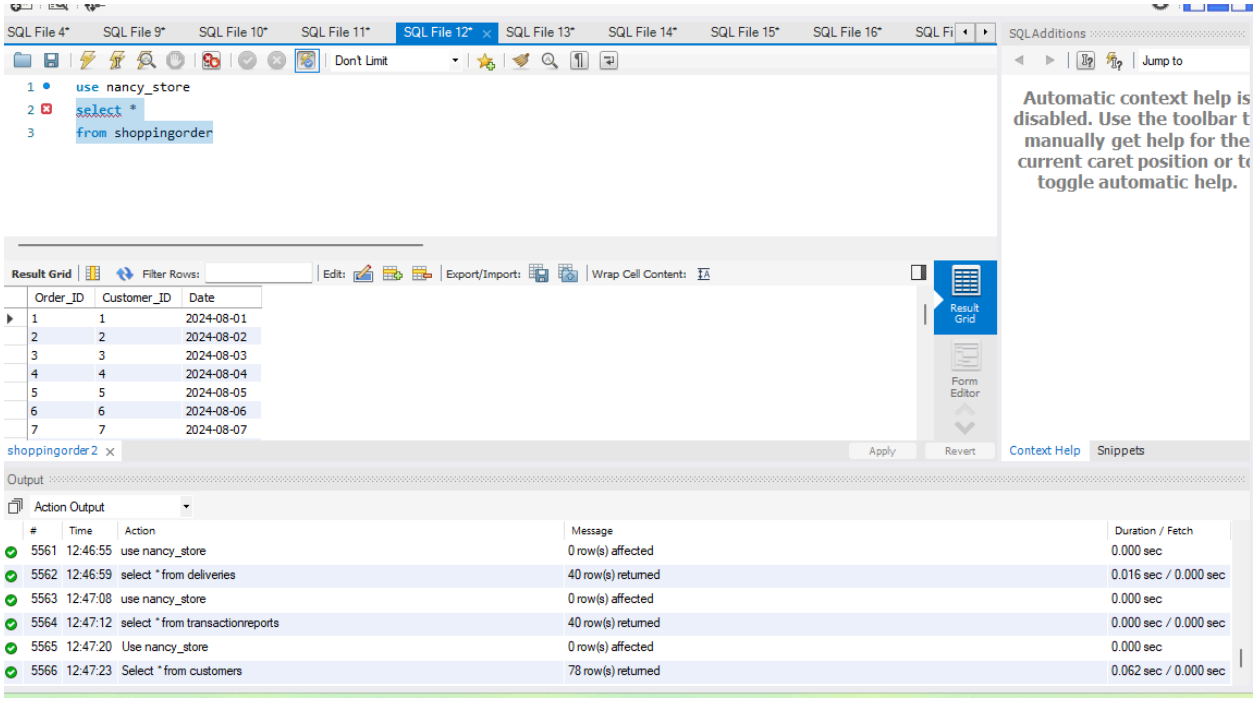


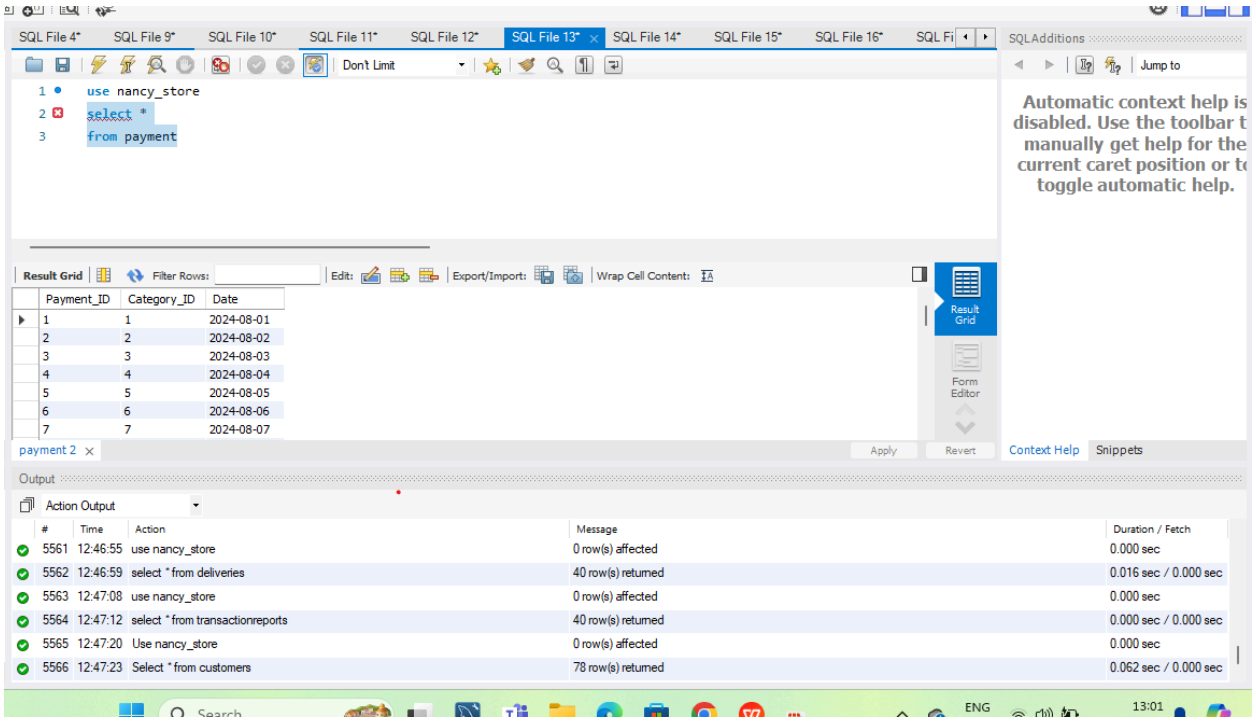


Database & Tables with Dummy Data






SQL File 4* SQL File 9* SQL File 10* SQL File 11* SQL File 12* SQL File 13* SQL File 14* SQL File 15* SQL File 16*
Don't Limit
1 use nancy_store
2 select *
3 from shoppingorder
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
Order_ID Customer_ID Date
1 1 2024-08-01
2 2 2024-08-02
3 3 2024-08-03
4 4 2024-08-04
5 5 2024-08-05
6 6 2024-08-06
7 7 2024-08-07
shoppingorder 2
Apply Revert
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
5561 12:46:55 use nancy_store 0 row(s) affected 0.000 sec
5562 12:46:59 select * from deliveries 40 row(s) returned 0.016 sec / 0.000 sec
5563 12:47:08 use nancy_store 0 row(s) affected 0.000 sec
5564 12:47:12 select * from transactionreports 40 row(s) returned 0.000 sec / 0.000 sec
5565 12:47:20 Use nancy_store 0 row(s) affected 0.000 sec
5566 12:47:23 Select * from customers 78 row(s) returned 0.062 sec / 0.000 sec


SQL File 4* SQL File 9* SQL File 10* SQL File 11* SQL File 12* SQL File 13* SQL File 14* SQL File 15* SQL File 16*
Don't Limit
1 use nancy_store
2 select *
3 from payment
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
Payment_ID Category_ID Date
1 1 2024-08-01
2 2 2024-08-02
3 3 2024-08-03
4 4 2024-08-04
5 5 2024-08-05
6 6 2024-08-06
7 7 2024-08-07
payment 2
Apply Revert
SQLAdditions
Jump to
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Output
Action Output
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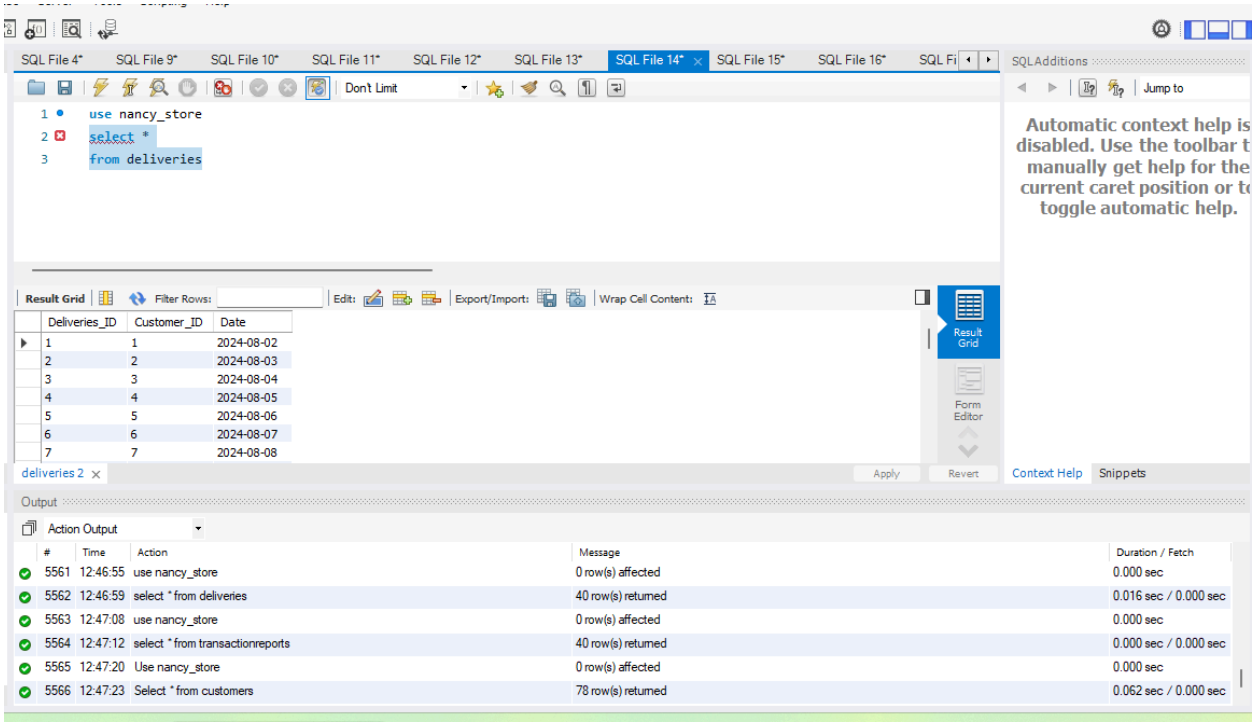
5565 12:47:20 Use nancy_store 0 row(s) affected 0.000 sec
5566 12:47:23 Select * from customers 78 row(s) returned 0.062 sec / 0.000 sec
ENG 13:01


SQL File 4*
SQL File 9*
SQL File 10*
SQL File 11*
SQL File 12*
SQL File 13*
SQL File 14*
SQL File 15*
SQL File 16*
Don't Limit
1 use nancy_store
2 select *
3 from deliveries
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
Deliveries_ID Customer_ID Date
1 1 2024-08-02
2 2 2024-08-03
3 3 2024-08-04
4 4 2024-08-05
5 5 2024-08-06
6 6 2024-08-07
7 7 2024-08-08
deliveries 2
Apply
Revert
SQLAdditions
Jump to
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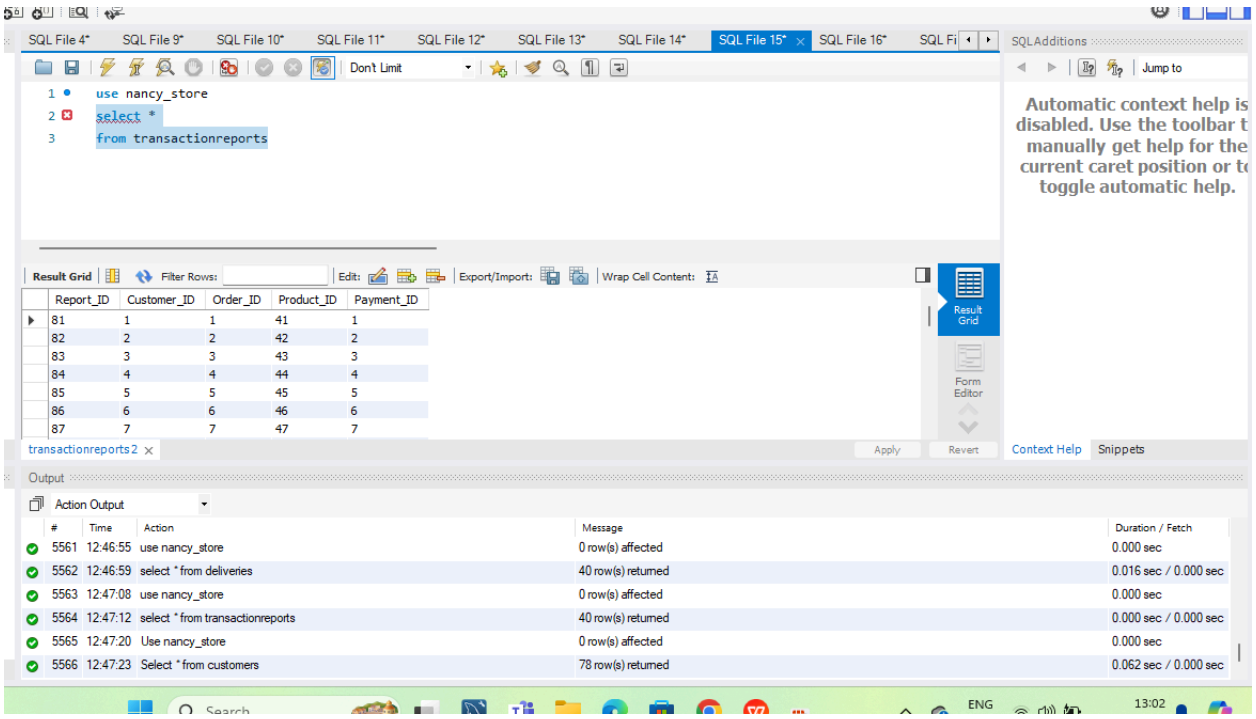
SQL File 4*
SQL File 9*
SQL File 10*
SQL File 11*
SQL File 12*
SQL File 13*
SQL File 14*
SQL File 15*
SQL File 16*
Don't Limit
1 use nancy_store
2 select *
3 from transactionreports
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
Report_ID Customer_ID Order_ID Product_ID Payment_ID
81 1 1 41 1
82 2 2 42 2
83 3 3 43 3
84 4 4 44 4
85 5 5 45 5
86 6 6 46 6
87 7 7 47 7
transactionreports 2
Apply
Revert
SQLAdditions
Jump to
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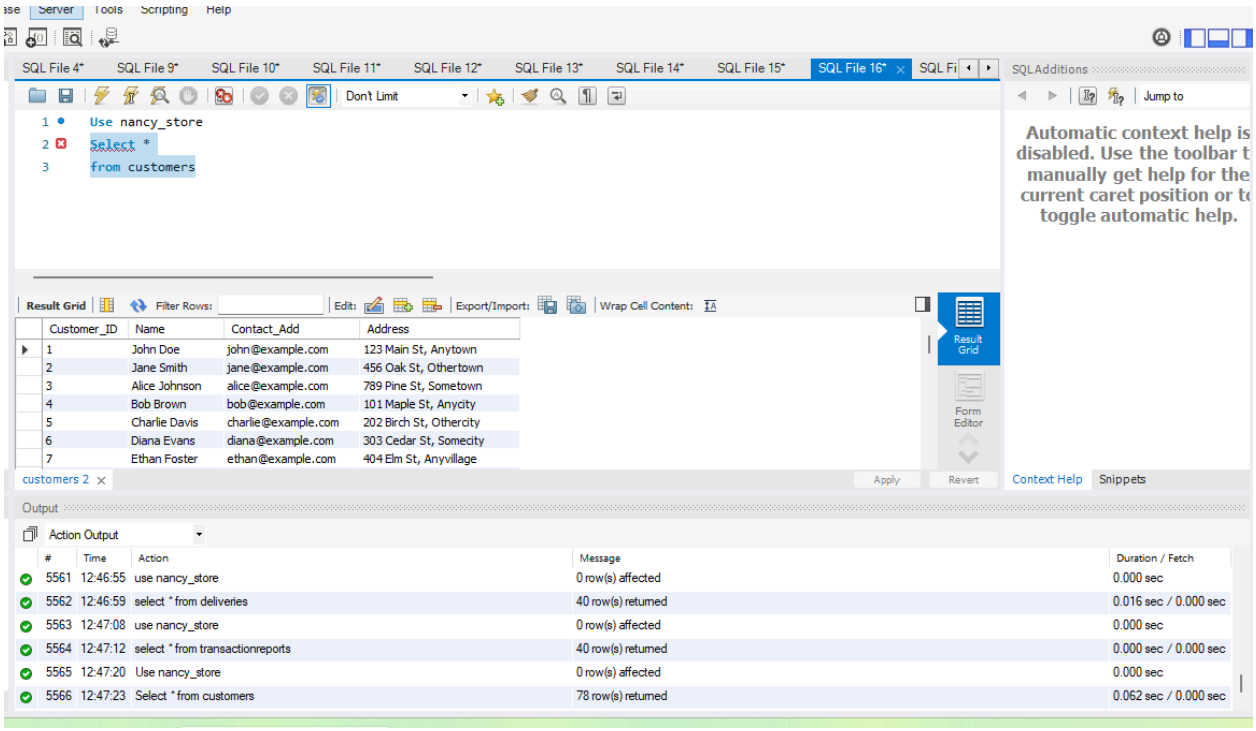
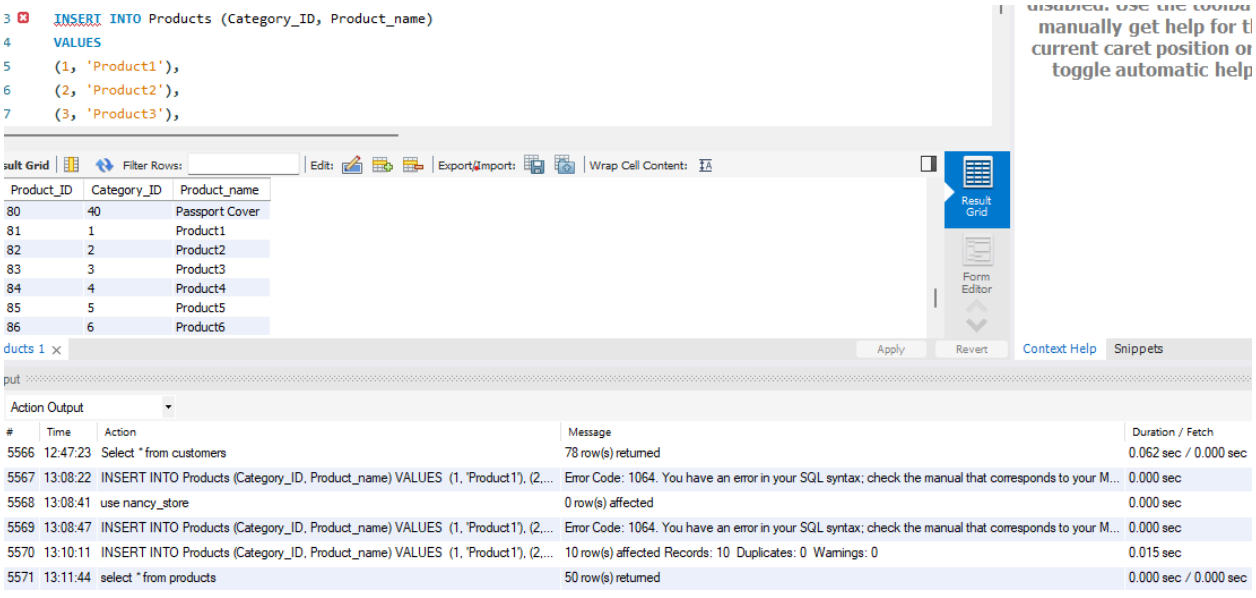
5564 12:47:12 select * from transactionreports 40 row(s) returned 0.000 sec / 0.000 sec
5565 12:47:20 Use nancy_store 0 row(s) affected 0.000 sec
5566 12:47:23 Select * from customers 78 row(s) returned 0.062 sec / 0.000 sec
ENG
13:02

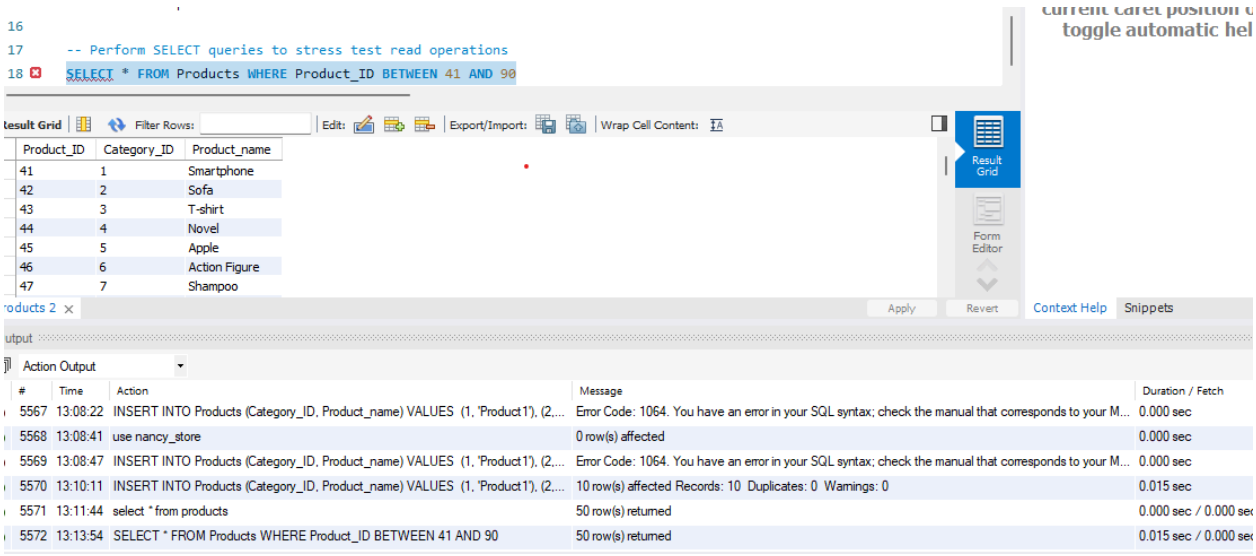


CRUD FUNCTIONS

1. Create



2. Read



```
16
17    -- Perform SELECT queries to stress test read operations
18    SELECT * FROM Products WHERE Product_ID BETWEEN 41 AND 90
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

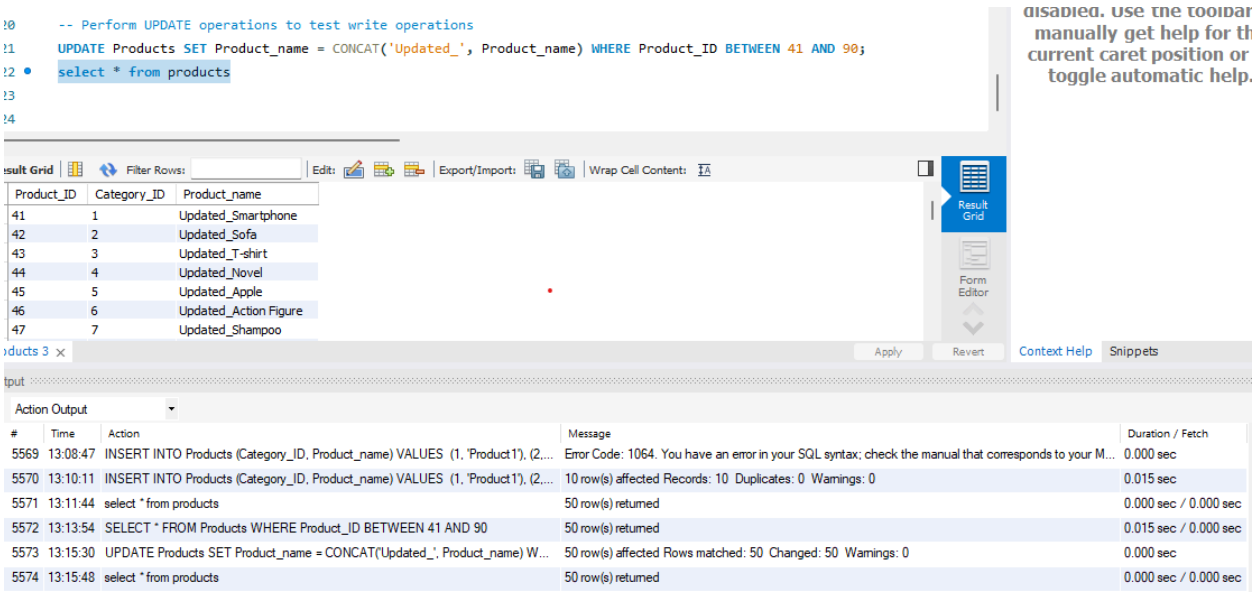
Product_ID	Category_ID	Product_name
41	1	Smartphone
42	2	Sofa
43	3	T-shirt
44	4	Novel
45	5	Apple
46	6	Action Figure
47	7	Shampoo

Result Grid | Form Editor | Apply | Revert | Context Help | Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
5567	13:08:22	INSERT INTO Products (Category_ID, Product_name) VALUES (1, 'Product1'), (2,...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your M...	0.000 sec
5568	13:08:41	use nancy_store	0 row(s) affected	0.000 sec
5569	13:08:47	INSERT INTO Products (Category_ID, Product_name) VALUES (1, 'Product1'), (2,...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your M...	0.000 sec
5570	13:10:11	INSERT INTO Products (Category_ID, Product_name) VALUES (1, 'Product1'), (2,...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.015 sec
5571	13:11:44	select * from products	50 row(s) returned	0.000 sec / 0.000 sec
5572	13:13:54	SELECT * FROM Products WHERE Product_ID BETWEEN 41 AND 90	50 row(s) returned	0.015 sec / 0.000 sec

3. Update



```
20    -- Perform UPDATE operations to test write operations
21    UPDATE Products SET Product_name = CONCAT('Updated_', Product_name) WHERE Product_ID BETWEEN 41 AND 90;
22    select * from products
23
24
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

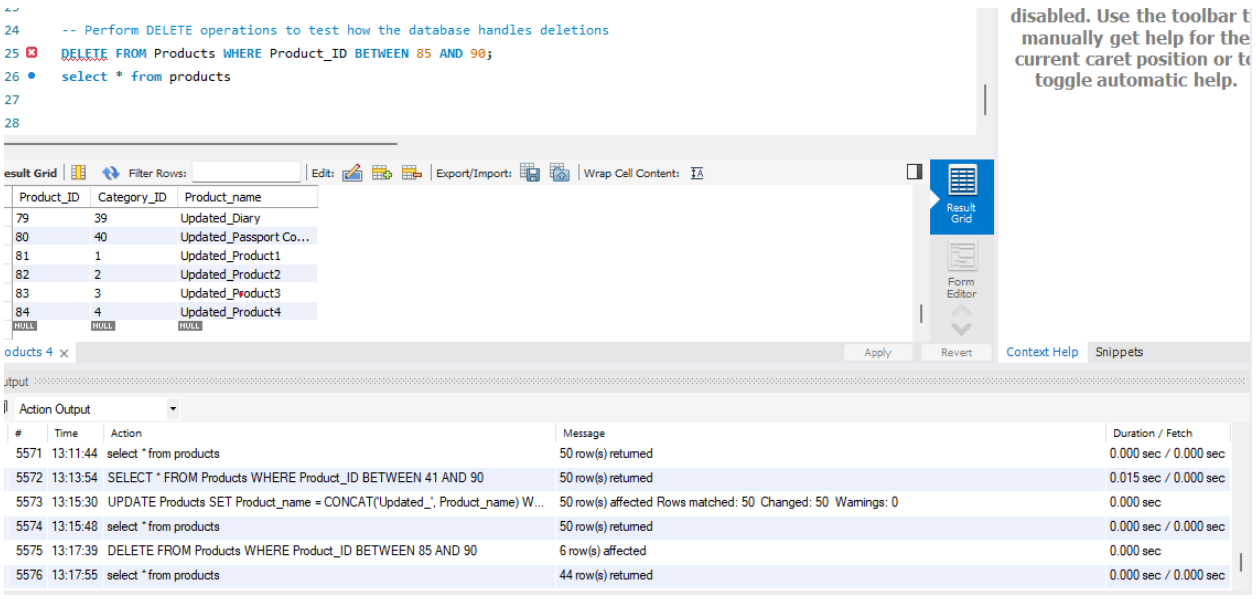
Product_ID	Category_ID	Product_name
41	1	Updated_Smartphone
42	2	Updated_Sofa
43	3	Updated_T-shirt
44	4	Updated_Novel
45	5	Updated_Apple
46	6	Updated_Action Figure
47	7	Updated_Shampoo

Result Grid | Form Editor | Apply | Revert | Context Help | Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
5569	13:08:47	INSERT INTO Products (Category_ID, Product_name) VALUES (1, 'Product1'), (2,...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your M...	0.000 sec
5570	13:10:11	INSERT INTO Products (Category_ID, Product_name) VALUES (1, 'Product1'), (2,...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.015 sec
5571	13:11:44	select * from products	50 row(s) returned	0.000 sec / 0.000 sec
5572	13:13:54	SELECT * FROM Products WHERE Product_ID BETWEEN 41 AND 90	50 row(s) returned	0.015 sec / 0.000 sec
5573	13:15:30	UPDATE Products SET Product_name = CONCAT('Updated_', Product_name) W...	50 row(s) affected Rows matched: 50 Changed: 50 Warnings: 0	0.000 sec
5574	13:15:48	select * from products	50 row(s) returned	0.000 sec / 0.000 sec

4. Delete



Normal Forms of the Tables

Analysis

1. Atomicity:
    - All the columns contains single values
2. Uniqueness:
    - Each row in the table has a unique ProductID, which serves as a primary key. This satisfies the uniqueness requirement.
3. Uniformity of Data Types:
    - Each column contains data of a single type. The ProductID column contains integers, the ProductName column contains text, (despite containing multiple values) contain text.

Analysis for 2NF

Partial Dependencies:

Category ID and Product Name depend only on ProductID and not on the combination of ProductID and CategoryID.

This indicates a partial dependency, as these attributes do not depend on the entire composite key.