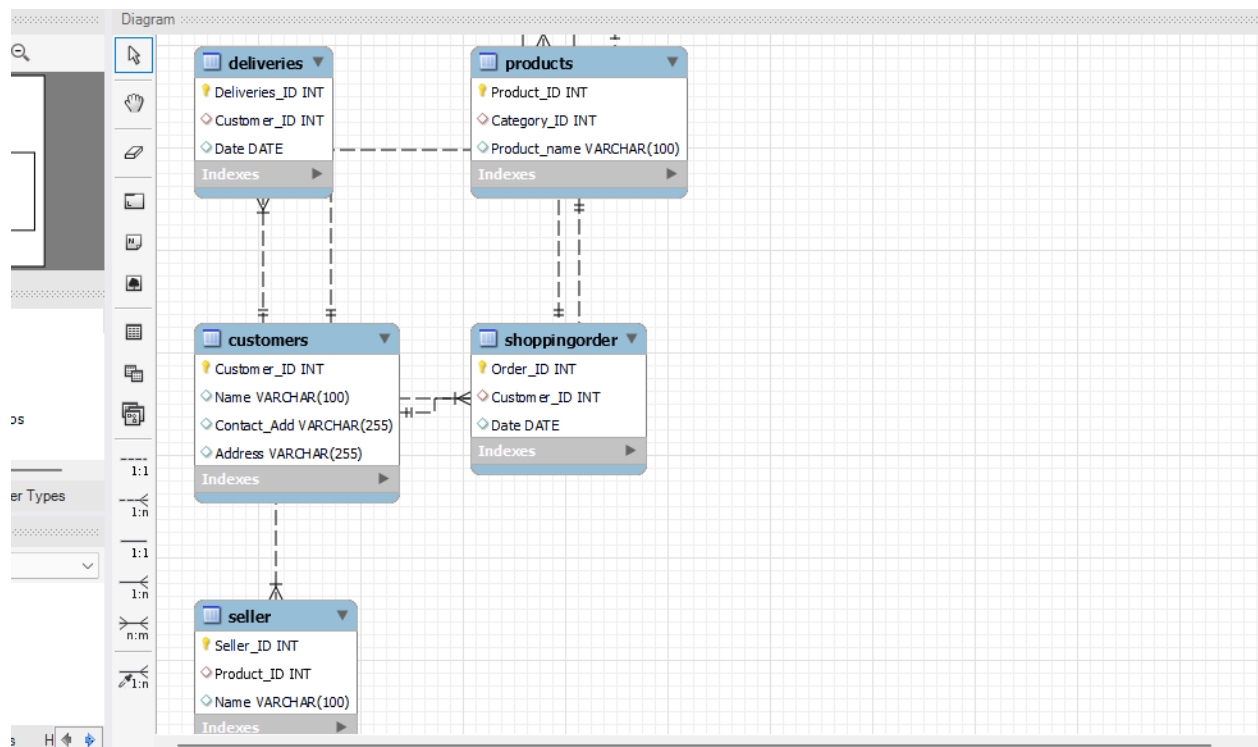
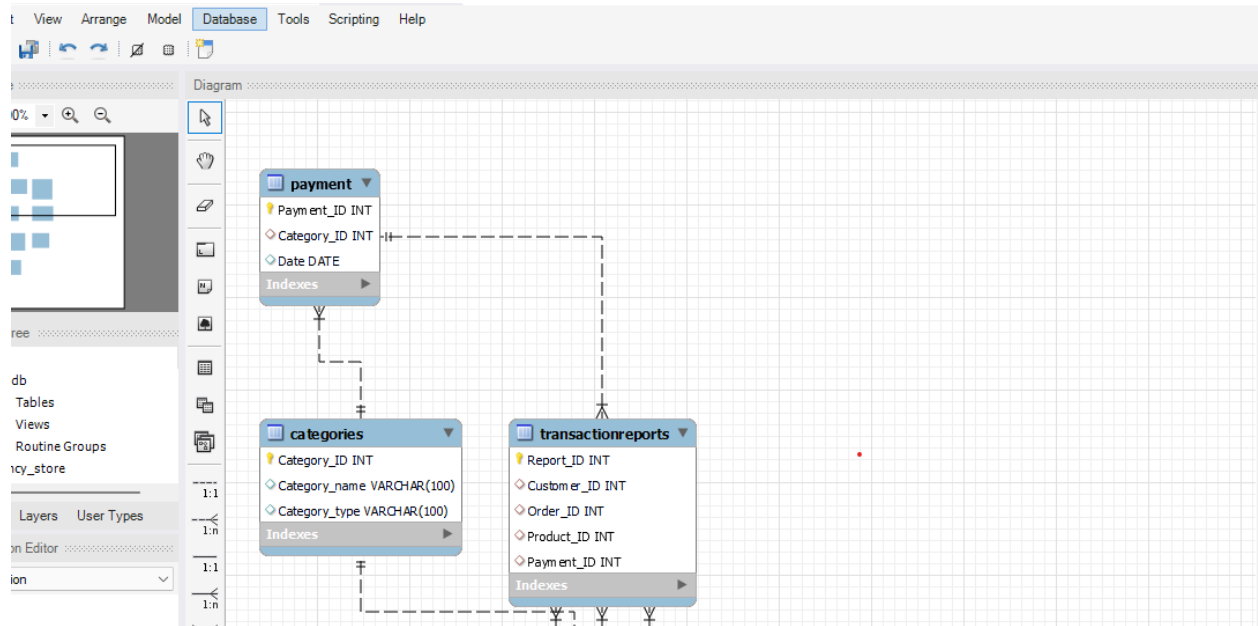


## REPORT

## ERD Diagram in SQL



## Database & Tables with Dummy Data

SQL File 4\* SQL File 9\* SQL File 10\* x SQL File 11\* SQL File 12\* SQL File 13\* SQL File 14\* SQL File 15\* SQL File 16\* SQL Fi

Don't Limit

```
1 • Use nancy_store
2 select *
3 from products
4 -----
5
```

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid

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

products 4 x

Apply Revert 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\* x SQL File 12\* SQL File 13\* SQL File 14\* SQL File 15\* SQL File 16\* SQL Fi

Don't Limit

```
1 • use nancy_store
2 select *
3 from seller
```

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid

Seller_ID	Product_ID	Name
36	41	Tech World
37	42	Home Comforts
38	43	Fashion Central
39	44	Book Haven
40	45	Fresh Produce
41	46	Toys & Games
42	47	Beauty Essentials

seller 2 x

Apply Revert 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\* x SQL File 13\* SQL File 14\* SQL File 15\* SQL File 16\* SQL Fi

1 • use nancy\_store  
2 select \*  
3 from shoppingorder

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid

	Order_ID	Customer_ID	Date
1	1	1	2024-08-01
2	2	2	2024-08-02
3	3	3	2024-08-03
4	4	4	2024-08-04
5	5	5	2024-08-05
6	6	6	2024-08-06
7	7	7	2024-08-07

shoppingorder 2 x Apply Revert 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\* x SQL File 14\* SQL File 15\* SQL File 16\* SQL Fi

1 • use nancy\_store  
2 select \*  
3 from payment

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid

	Payment_ID	Category_ID	Date
1	1	1	2024-08-01
2	2	2	2024-08-02
3	3	3	2024-08-03
4	4	4	2024-08-04
5	5	5	2024-08-05
6	6	6	2024-08-06
7	7	7	2024-08-07

payment 2 x Apply Revert 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\* x SQL File 15\* SQL File 16\* SQL Fi

1 • use nancy\_store  
2 ✖ select \*  
3 from deliveries

Result Grid Filter Rows: Edit: Export/Imports: Wrap Cell Content: I

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 x Apply Revert 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

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

SQL File 4\* SQL File 9\* SQL File 10\* SQL File 11\* SQL File 12\* SQL File 13\* SQL File 14\* SQL File 15\* x SQL File 16\* SQL Fi

1 • use nancy\_store  
2 ✖ select \*  
3 from transactionreports

Result Grid Filter Rows: Edit: Export/Imports: Wrap Cell Content: I

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

transactionreports2 x Apply Revert 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

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

ise | Server | Tools | Scripting | Help

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\* SQL File 17\*

1 Use nancy\_store  
2 Select \*  
3 from customers

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid

Customer_ID	Name	Contact_Add	Address
1	John Doe	john@example.com	123 Main St, Anytown
2	Jane Smith	jane@example.com	456 Oak St, Othertown
3	Alice Johnson	alice@example.com	789 Pine St, Sometown
4	Bob Brown	bob@example.com	101 Maple St, Anycity
5	Charlie Davis	charlie@example.com	202 Birch St, Othercity
6	Diana Evans	diana@example.com	303 Cedar St, Somedcity
7	Ethan Foster	ethan@example.com	404 Elm St, Anyvillage

customers 2 x

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

## CRUD FUNCTIONS

### 1. Create

3 INSERT INTO Products (Category\_ID, Product\_name)  
4 VALUES  
5 (1, 'Product1'),  
6 (2, 'Product2'),  
7 (3, 'Product3'),

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid

Product_ID	Category_ID	Product_name
80	40	Passport Cover
81	1	Product1
82	2	Product2
83	3	Product3
84	4	Product4
85	5	Product5
86	6	Product6

Products 1 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
5566	12:47:23	Select * from customers	78 row(s) returned	0.062 sec / 0.000 sec
5567	13:08:22	INSERT INTO Products (Category_ID, Product_name) VALUES (1, 'Product1'), (2, 'Product2'), (3, 'Product3')	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version [4.0.15.1].	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, 'Product2'), (3, 'Product3')	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version [4.0.15.1].	0.000 sec
5570	13:10:11	INSERT INTO Products (Category_ID, Product_name) VALUES (1, 'Product1'), (2, 'Product2'), (3, 'Product3')	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

## 2. Read

16

17 -- Perform SELECT queries to stress test read operations

18 **SELECT \* FROM Products WHERE Product\_ID BETWEEN 41 AND 90**

current caret position to toggle automatic help

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

Products 2 x Apply Revert Context Help Snippets

Output

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

10 -- Perform UPDATE operations to test write operations

11 **UPDATE Products SET Product\_name = CONCAT('Updated\_', Product\_name) WHERE Product\_ID BETWEEN 41 AND 90;**

12 **select \* from products**

13

14

disabled. Use the toolbar manually get help for the current caret position or toggle automatic help.

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

Products 3 x Apply Revert Context Help Snippets

Output

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

24 -- Perform DELETE operations to test how the database handles deletions  
 25 **DELETE FROM Products WHERE Product\_ID BETWEEN 85 AND 90;**  
 26 **select \* from products**  
 27  
 28

disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid

Product_ID	Category_ID	Product_name
79	39	Updated_Diary
80	40	Updated_Passport Co...
81	1	Updated_Product1
82	2	Updated_Product2
83	3	Updated_Product3
84	4	Updated_Product4

Products 4 x

Apply Revert Context Help Snippets

Output

#	Time	Action	Message	Duration / Fetch
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
5575	13:17:39	DELETE FROM Products WHERE Product_ID BETWEEN 85 AND 90	6 row(s) affected	0.000 sec
5576	13:17:55	select * from products	44 row(s) returned	0.000 sec / 0.000 sec

## Normal Forms of the Tables

### Analysis

- Atomicity:
  - All the columns contains single values
- Uniqueness:
  - Each row in the table has a unique **ProductID**, which serves as a primary key. This satisfies the uniqueness requirement.
- 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.