# E-COMMERCE MANAGEMENT SYSTEM

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# Overview

- **Electronic Commerce** or **E-Commerce** consists of the purchasing, selling and exchanging goods and services via electronic means such as the internet or other electronic services.
- This type of trade has been growing rapidly because of the expansion of the Internet.

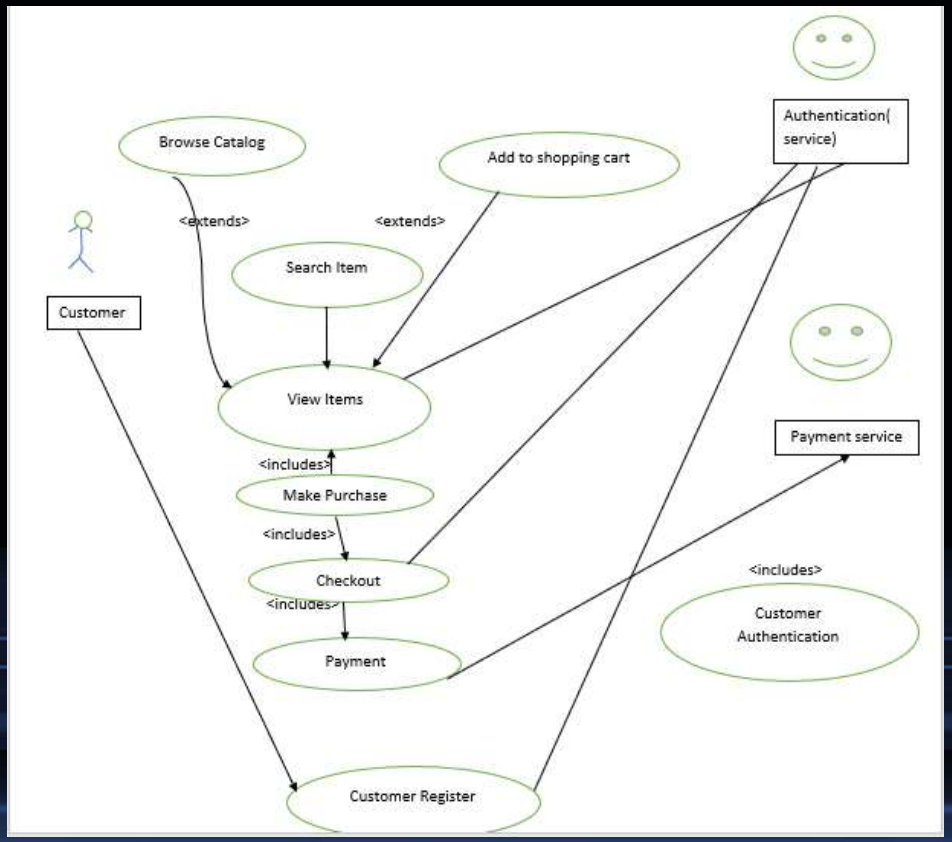
# Problem Statement

- E-commerce provides an easy way to sell products to a large customer base. However, there is a lot of competition among multiple e-commerce sites. When users land on an e-commerce site, they expect to find what they are looking for quickly and easily. And the main goal for all of this is maintaining a database which will be able to handle such a large amount of data.

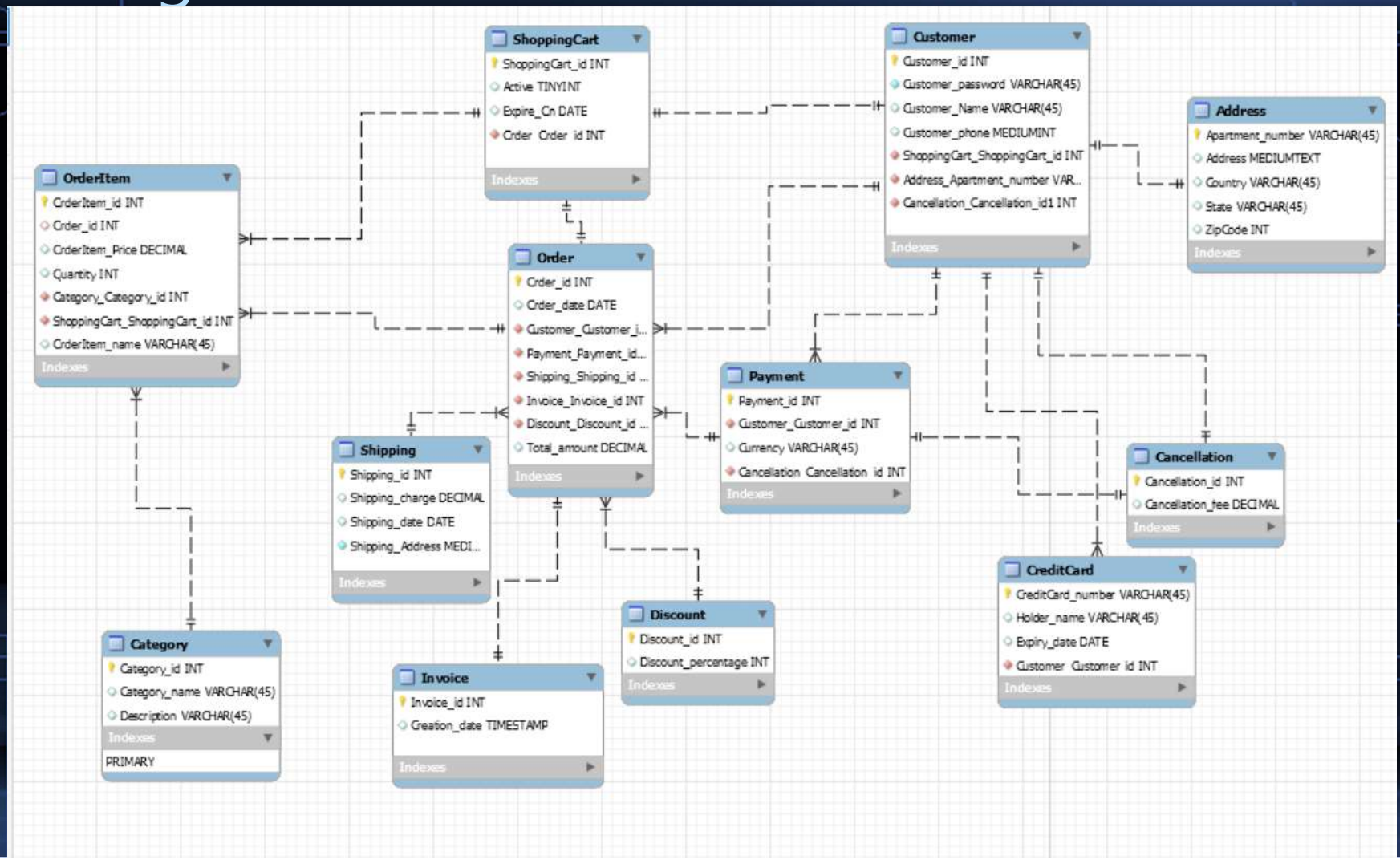
# Proposed Solution

- The purpose of any e-commerce website is to help customers narrow down their broad ideas and enable them to finalize the products they want to purchase quickly.
- The database management system we construct should possess all the ACID properties.

# Sample Diagram and Entities

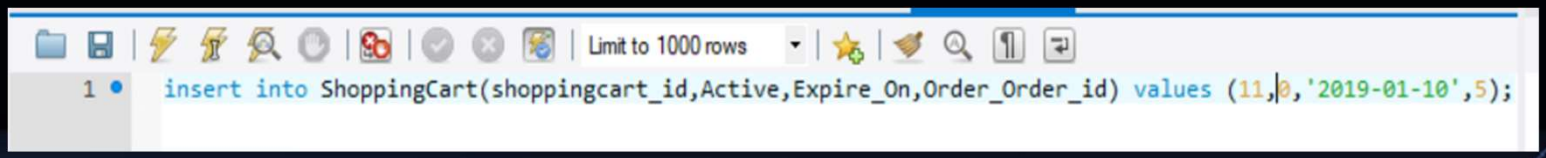


# ER Diagram

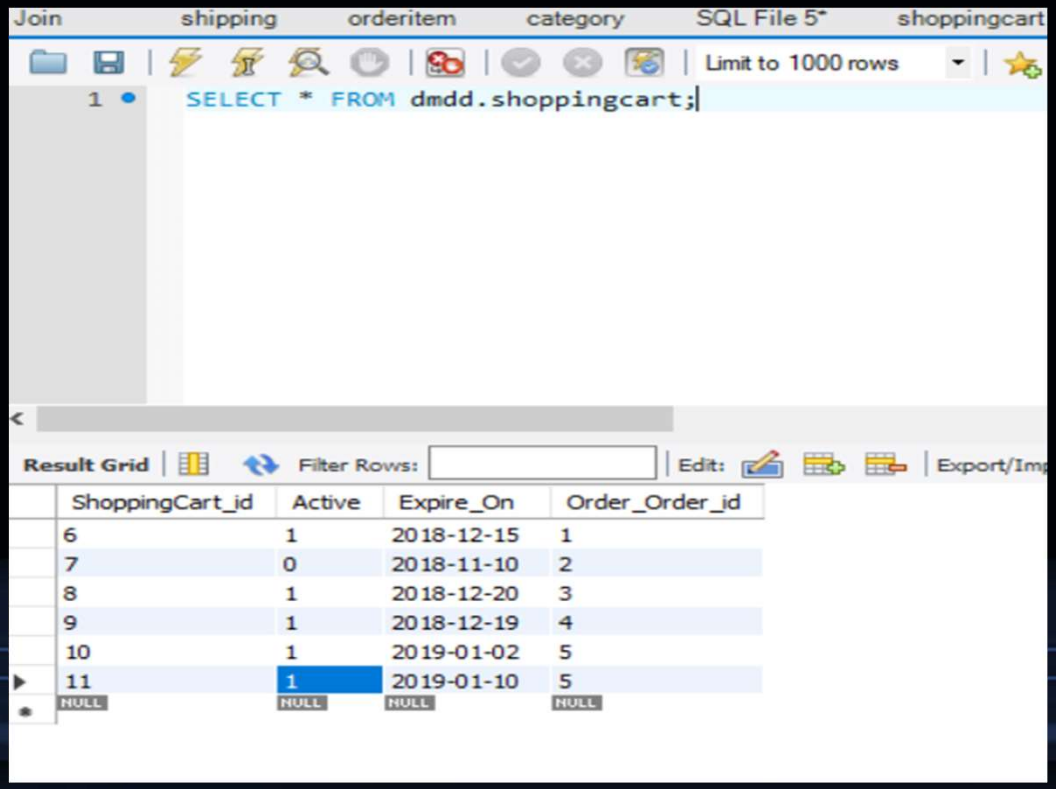

ShoppingCart
ShoppingCart_id INT
Active TINYINT
Expire_Cn DATE
Order Order id INT
Indexes
Customer
Customer_id INT
Customer_password VARCHAR(45)
Customer_Name VARCHAR(45)
Customer_phone MEDIUMINT
ShoppingCart_ShoppingCart_id INT
Address_Apartment_number VAR...
Cancellation_Cancellation_id1 INT
Indexes
Address
Apartment_number VARCHAR(45)
Address MEDIUMTEXT
Country VARCHAR(45)
State VARCHAR(45)
ZipCode INT
Indexes
OrderItem
OrderItem_id INT
Order_id INT
OrderItem_Price DECIMAL
Quantity INT
Category_Category_id INT
ShoppingCart_ShoppingCart_id INT
OrderItem_name VARCHAR(45)
Indexes
Order
Order_id INT
Order_date DATE
Customer_Customer_i...
Payment_Payment_id...
Shipping_Shipping_id ...
Invoice_Invoice_id INT
Discount_Discount_id ...
Total_amount DECIMAL
Indexes
Payment
Payment_id INT
Customer_Customer_id INT
Currency VARCHAR(45)
Cancellation Cancellation_id INT
Indexes
Shipping
Shipping_id INT
Shipping_charge DECIMAL
Shipping_date DATE
Shipping_Address MEDI...
Indexes
Cancellation
Cancellation_id INT
Cancellation_fee DECIMAL
Indexes
CreditCard
CreditCard_number VARCHAR(45)
Holder_name VARCHAR(45)
Expiry_date DATE
Customer Customer_id INT
Indexes
Discount
Discount_id INT
Discount_percentage INT
Indexes
Category
Category_id INT
Category_name VARCHAR(45)
Description VARCHAR(45)
Indexes
PRIMARY
Invoice
Invoice_id INT
Creation_date TIMESTAMP
Indexes

# Query 1 : Trigger for changing the status

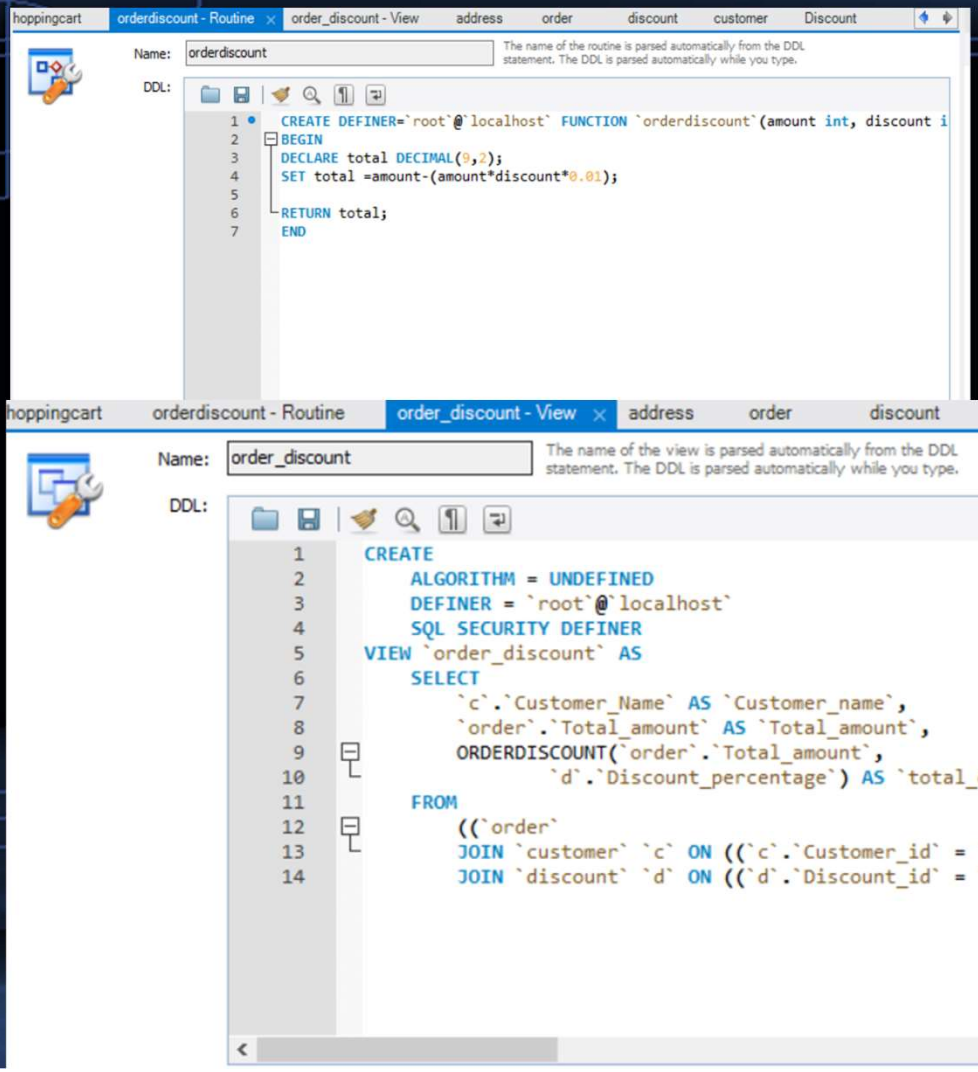
```
delimiter //
create trigger active_inactive_status1 before insert on ShoppingCart
for each row
begin
if NEW.Active='0'
then
SET NEW.Active='1';
end if;
end;
```



# Query 1 Continued..



# Query 2: Order Discount for Products



# Query 2 continued..

```
1 •  SELECT distinct * FROM dmdd.order_discount;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Customer_name | Total_amount | total_discount |
|---|---|---|
| Ling | 49 | 17.15 |
| Sai | 150 | 120.00 |
| Liu | 120 | 108.00 |
| Sue | 51 | 38.25 |
| Sammy | 15 | 6.75 |

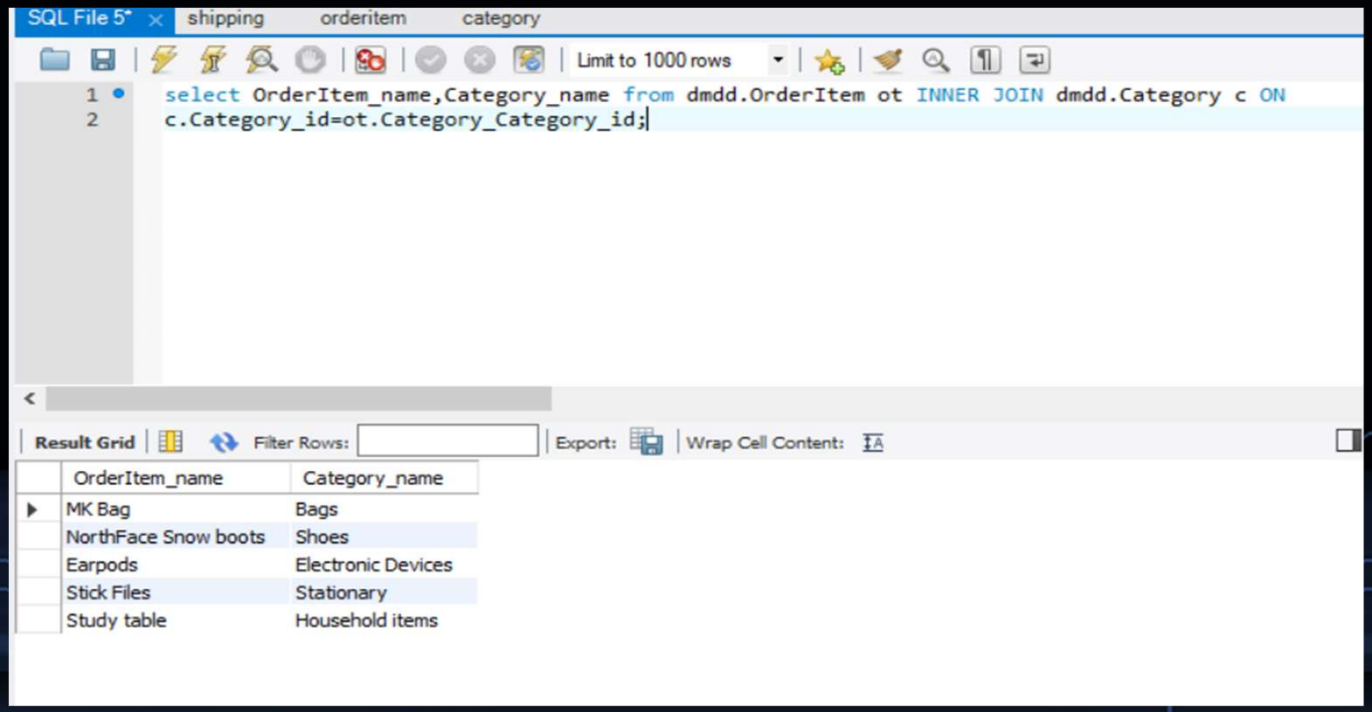
# Query 2 continued..

```
1 •  Select sum(Total_amount)-sum(total_discount) as Discount_offer from order_discount;
2    /*analysis for discounts given*/
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Discount_offer |
| --- |
| 251.60 |

# Query 3: For selecting Products from respective Category



# Query 4: Cancellation Fee

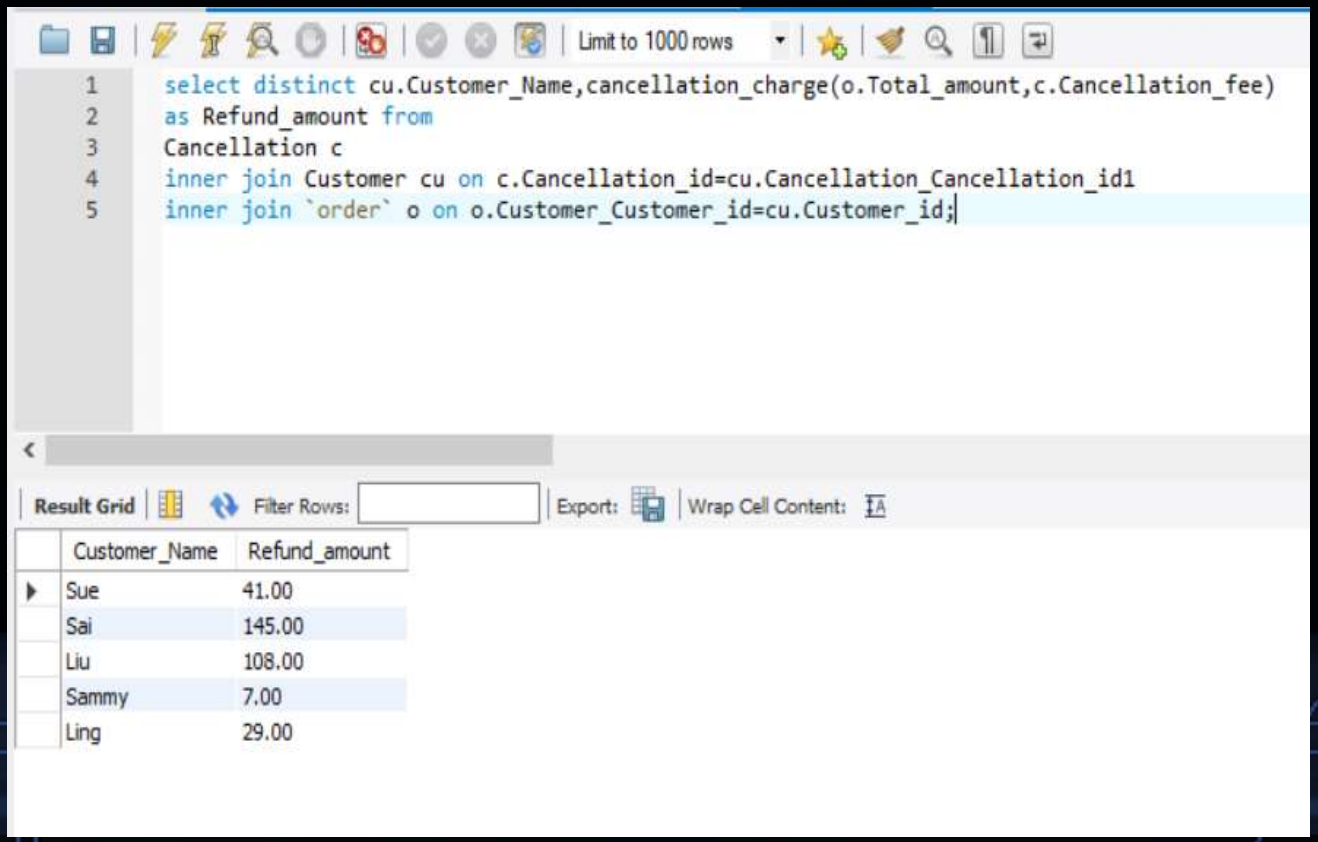
Name: cancellation_charge

The name of the routine is parsed automatically from the DDL statement. The DDL is parsed automatically while you type.

DDL:

```
1  CREATE DEFINER=`root`@`localhost` FUNCTION `cancellation_charge`
2  (amount int, cancellationfee decimal)
3   RETURNS decimal(9,2)
4  BEGIN
5  DECLARE total DECIMAL(9,2);
6  SET total=amount-cancellationfee;
7
8  RETURN total;
9  END
```

# Query 4 continued..

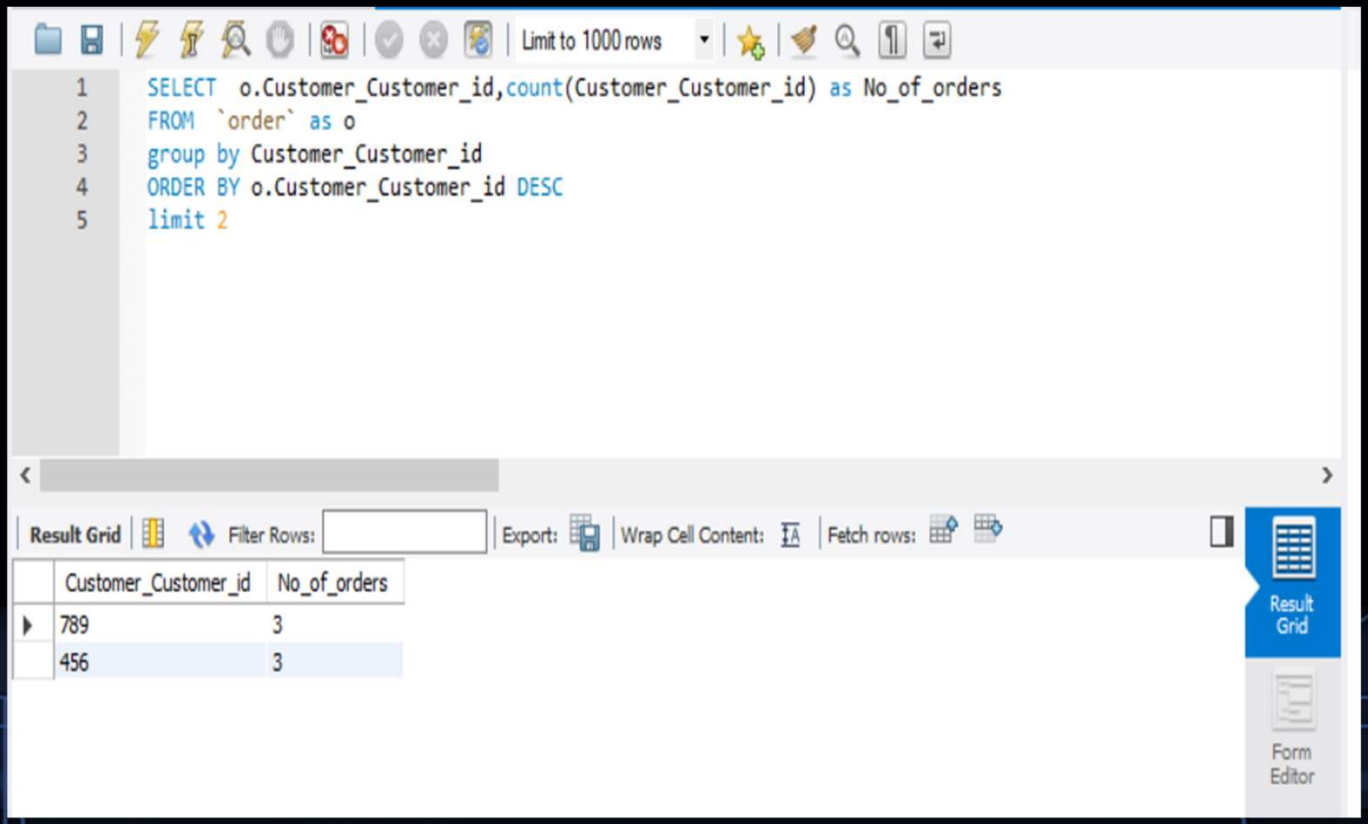


```
1  select distinct cu.Customer_Name,cancellation_charge(o.Total_amount,c.Cancellation_fee)
2  as Refund_amount from
3  Cancellation c
4  inner join Customer cu on c.Cancellation_id=cu.Cancellation_Cancellation_id1
5  inner join `order` o on o.Customer_Customer_id=cu.Customer_id;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Customer_Name | Refund_amount |
|---|---|
| Sue | 41.00 |
| Sai | 145.00 |
| Liu | 108.00 |
| Sammy | 7.00 |
| Ling | 29.00 |

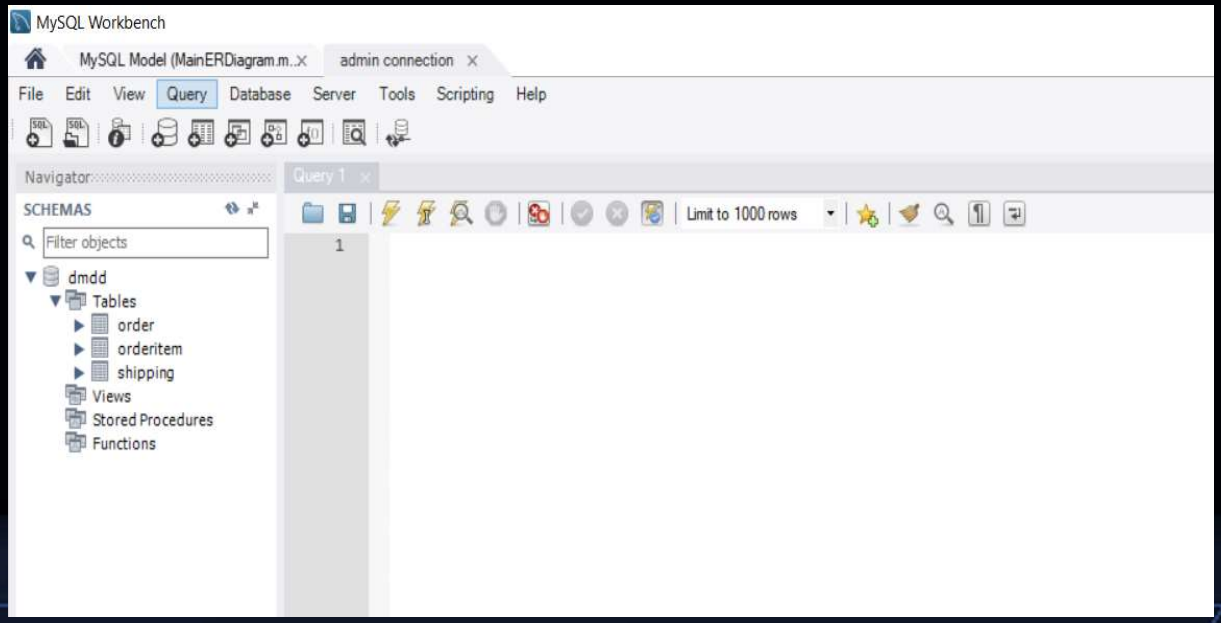
# Query 5: Top Customers



# Query 6: User Previleges

```
1  create user 'admin'@'localhost' identified by 'admin';
2
3  grant select on dmdd.order to 'admin'@'localhost';
4
5  grant select on dmdd.shipping to 'admin'@'localhost';
6
7  grant select on dmdd.orderitem to 'admin'@'localhost';
```

# Query 6 continued..



Thank you