AIN SHAMS UNIVERSITY

FACULTY OF ENGINEERING

I-CREDIT HOURS ENGINEERING PROGRAMS

Computer Engineering and Software Systems Program

Spring 2021   **Course Code: CSE 333/227**

Database Systems

Course Project

Title

Online Delivery System

Submitted by:

	Name	ID
1	Reda Mohsen Reda	18P5141
2	Asmaa Gamal Mohamed(CSE227)	16P8117
3	Mohannad Medhat (CSE227)	17P6056
4	Kirollos Wassily Samir	18P4476

1. Introduction

Online delivery system is created to easy steps to customers to buy something from internet and decrease the time that the customer would take if he wanted to buy something and the variety of items that customer can show or buy in the same time and this system although manage some services like buy and choose item then add to cart and delivery man and bank which customer will buy with own credit card

2. Important data and reports

a. Important data

Customer: id,fullname, username,phone number, email,password,address,cart,points

Admin: id,username

Delivery person: is_activated,username

Credit card: number,expiration_date,cvv_code

Delivery: delivery_number,delivery_type,fees,username

Orders:
order_no,order_date,total_amount,cash_amount,credit_number,payment_type,order_status,remaining_days,time_limit,customer_name,delivery_id,creditcard_number

Product:
serial_number,product_number,category,product_description,price,final_price,color,available,rate,customer_username,customer_order_id

Wishlist: name, username, serial_no

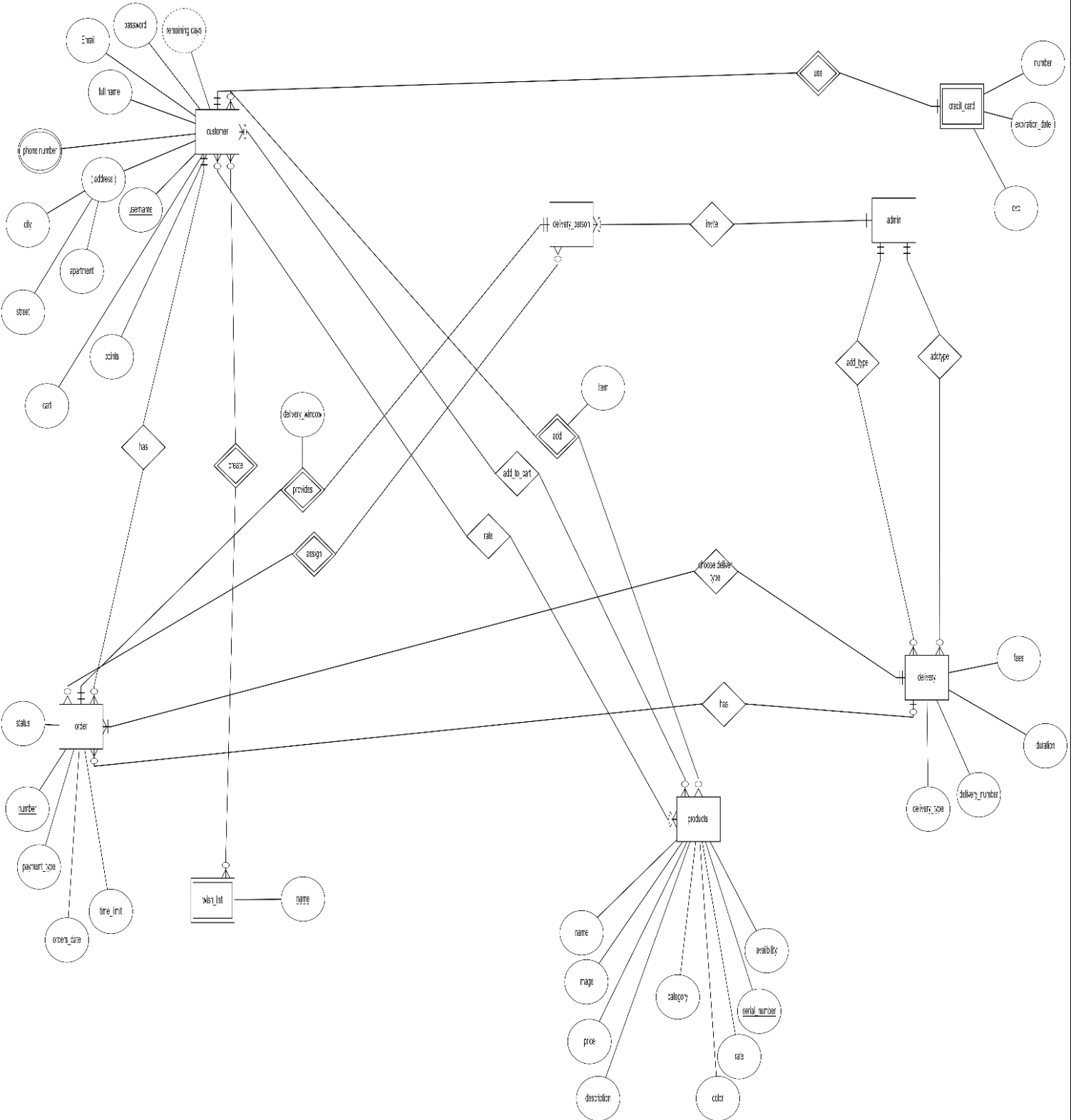**Admin_delivery_order:** delivery_username,order_no,admin_username,delivery_win

b. Reports

1. get the order management by the customer.
2. get the product selected by the customer.
3. get the order which accepted by admin.
4. get the order confirmation between admin and delivery man.
5. get the order payment chosen by the customer.
6. get the product price discounted from customer`s credit card.
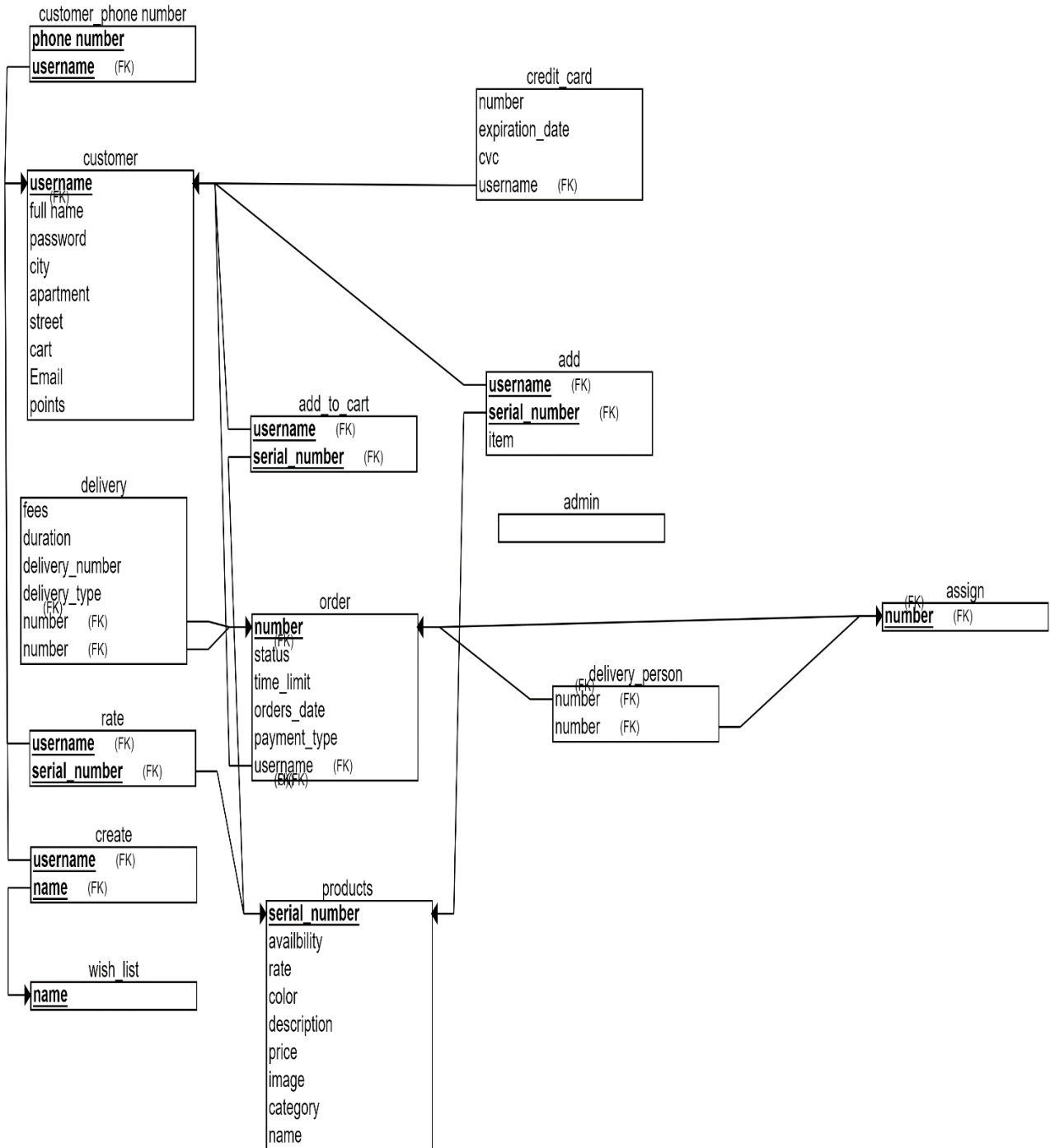7. get the product color and size chosen by customer.

3. Assumption

1. the customer points will increase after buying or ordering variety things.
2. the delivery_person activation changed if he is not available to deliver order.
3. products fees change from time to time according to currency change.
4. if product is sold out its availability change to sold out where customers cann`t buy it only knowing its info.
5. if the final_price of the product is greater than the total amount in the customer`s credit card the payment method will be refused and confirmation is at hold until recent time then canceled if the customer did not charge the credit.

4. EER Diagram:

5. Database schema:

customer_phone number
phone number
username (FK)

credit_card
number
expiration_date
cvc
username (FK)

customer
username
(FK)
full name
password
city
apartment
street
cart
Email
points

add
username (FK)
serial_number (FK)
item

add_to_cart
username (FK)
serial_number (FK)

delivery
fees
duration
delivery_number
delivery_type
number (FK)
number (FK)

admin

order
number
(FK)
status
time_limit
orders_date
payment_type
username (FK)
(FK)

assign
number (FK)

delivery_person
number (FK)
number (FK)

rate
username (FK)
serial_number (FK)

create
username (FK)
name (FK)

products
serial_number
availbility
rate
color
description
price
image
category
name

wish_list
name

6. Sample of SQL:

a. Sample of created tables

i.   Customer table
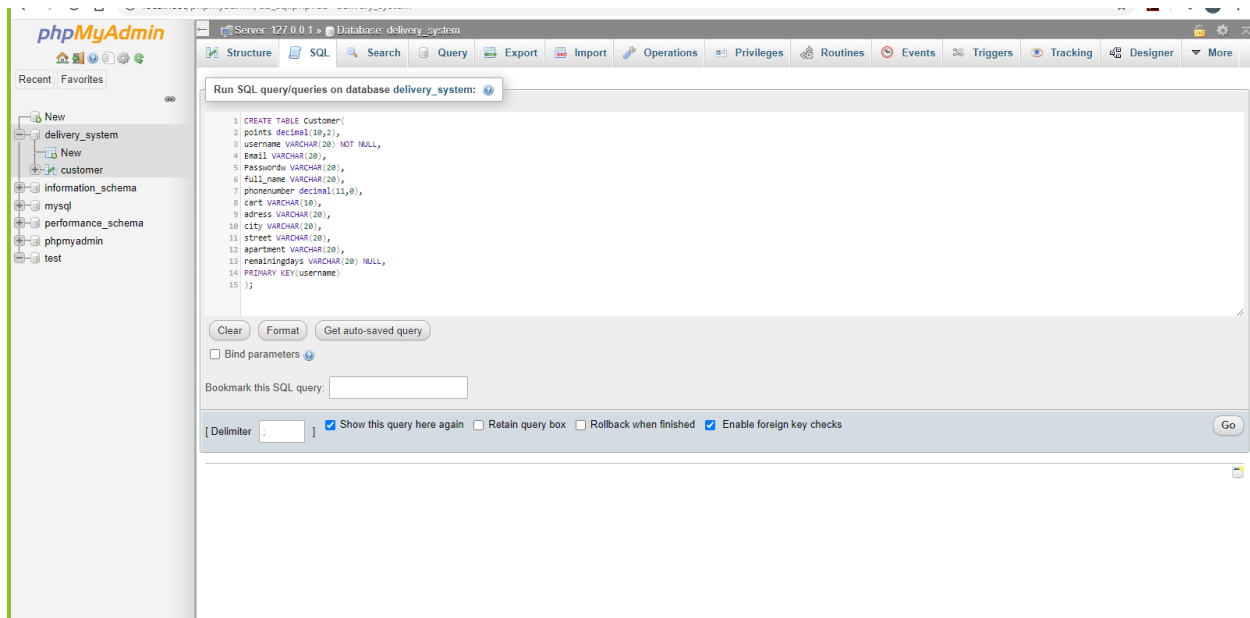
ii.   Admins table
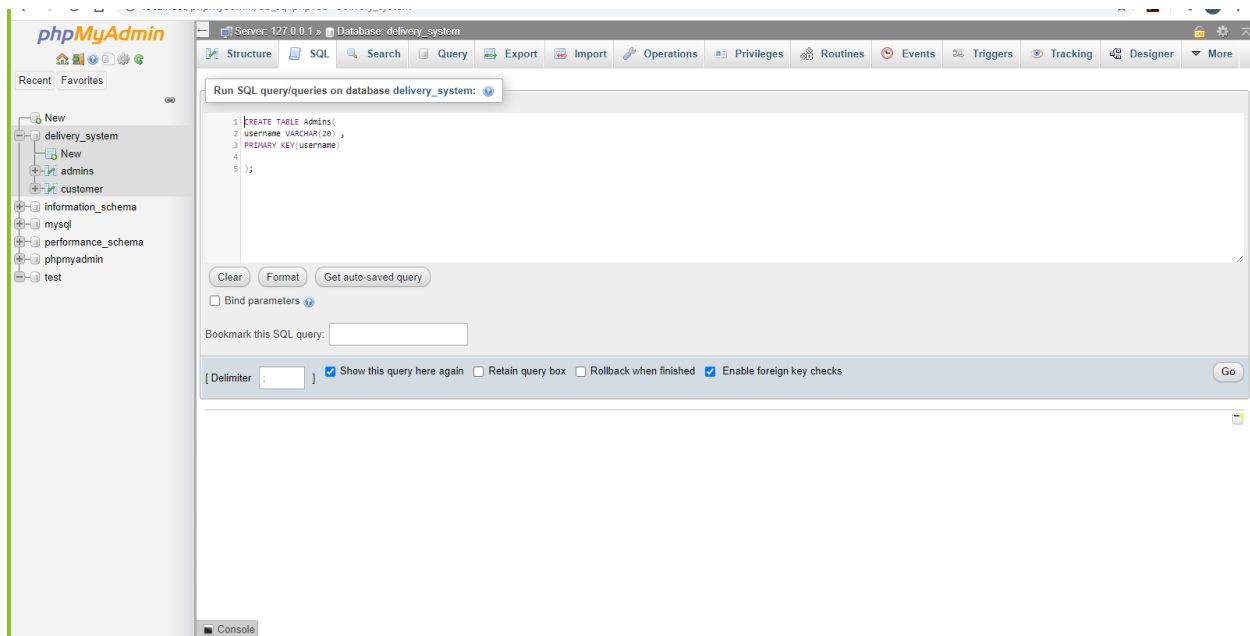
iii. Delivery_person table
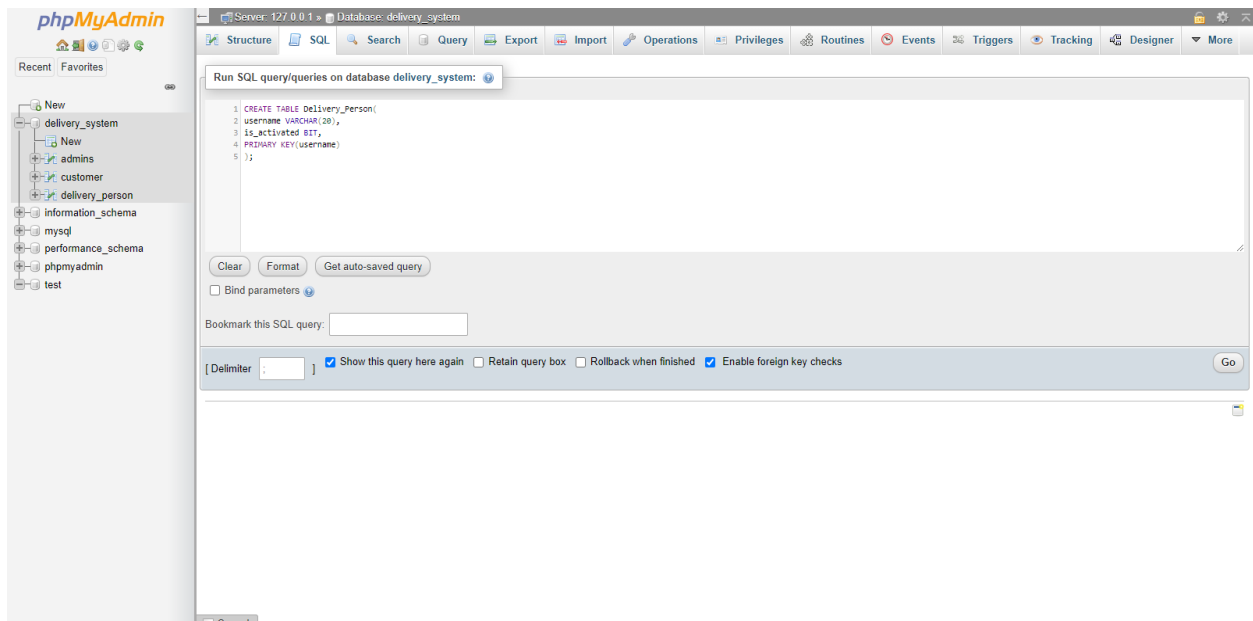
iv. Credit_card table
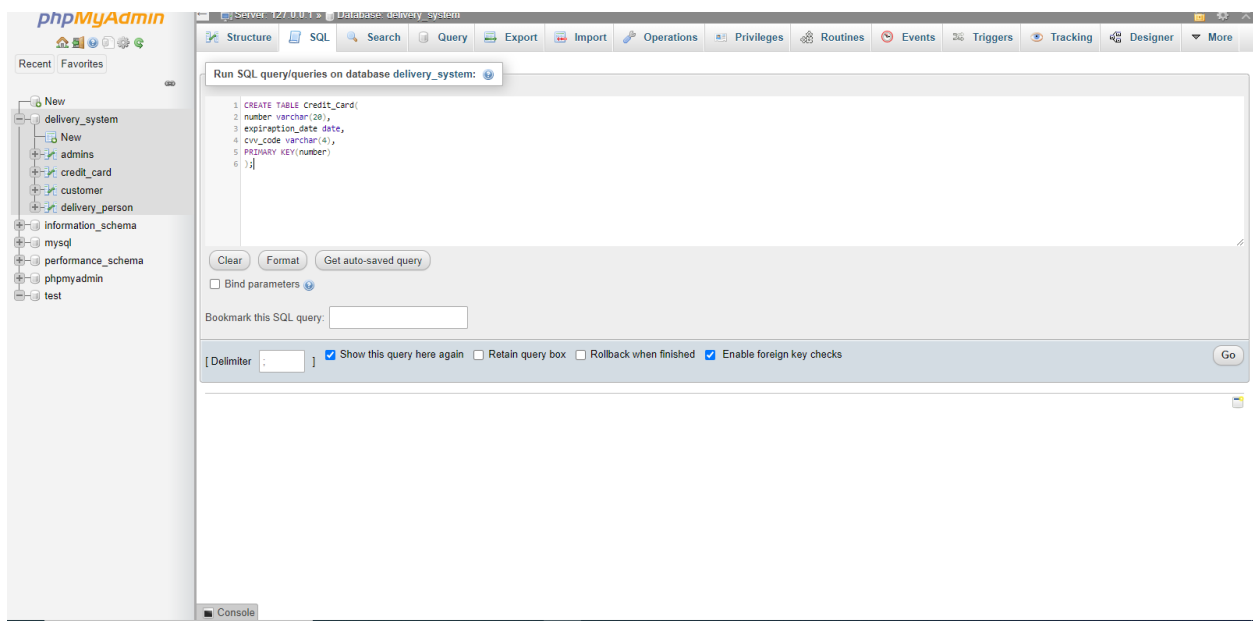
v. Product table
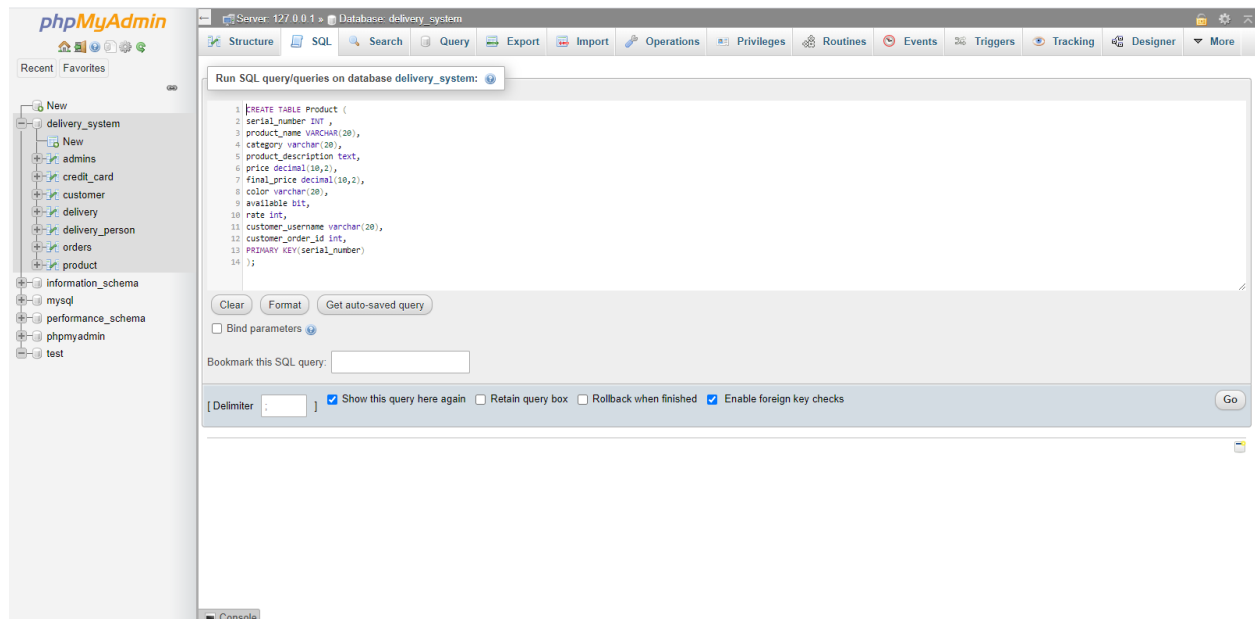
b. Sample of insert into tables

i. Insert to product table
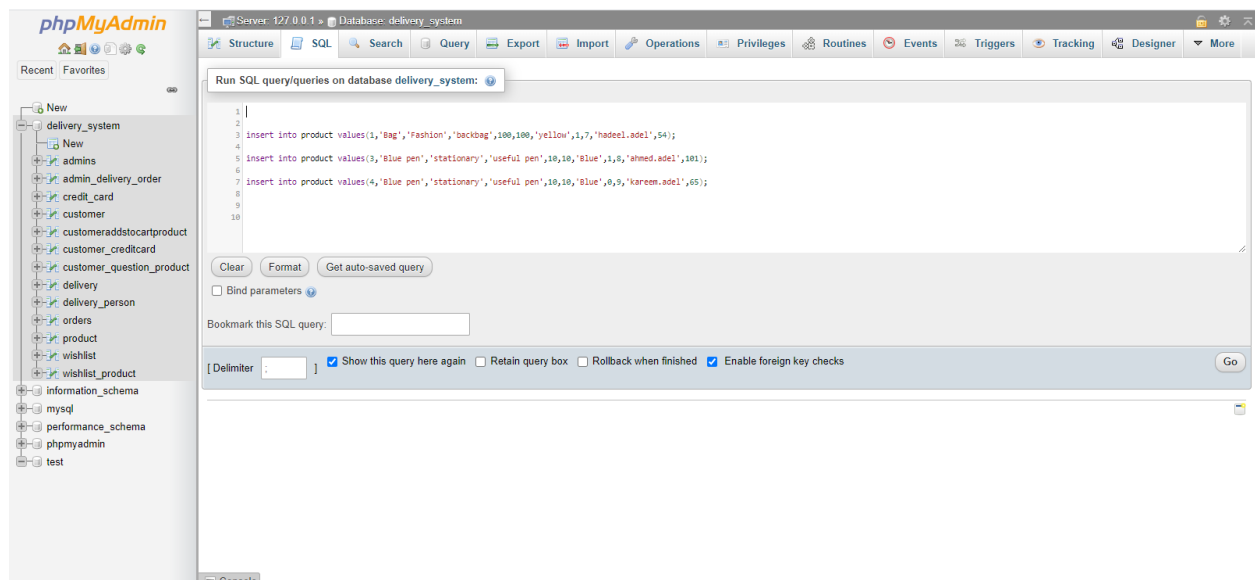
ii. Insert to customer table
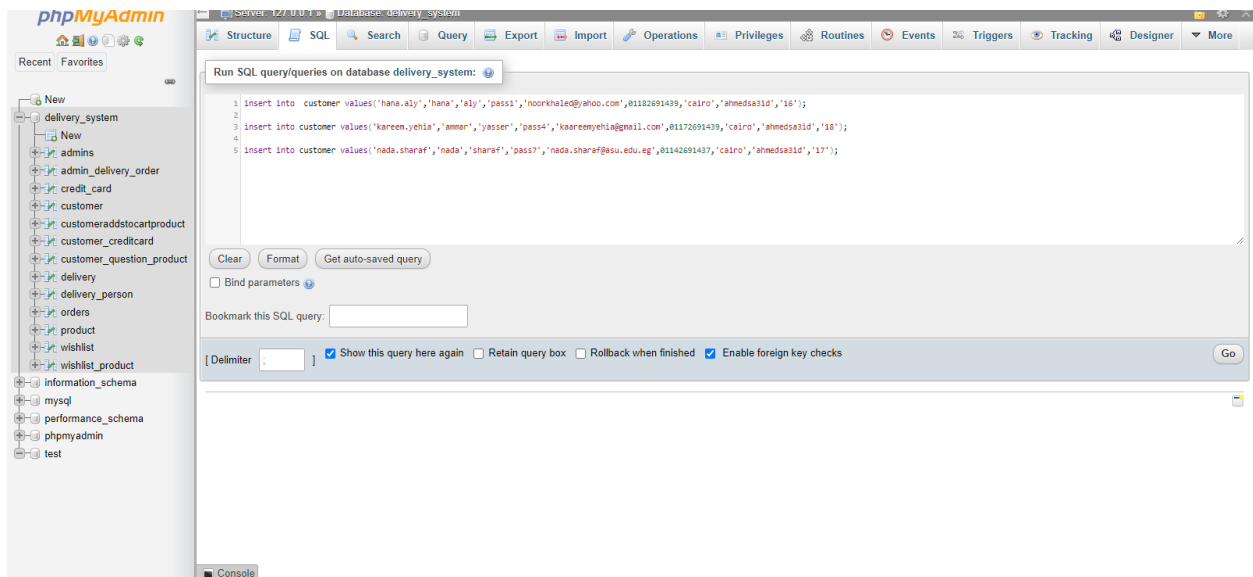
iii. Insert to admins table
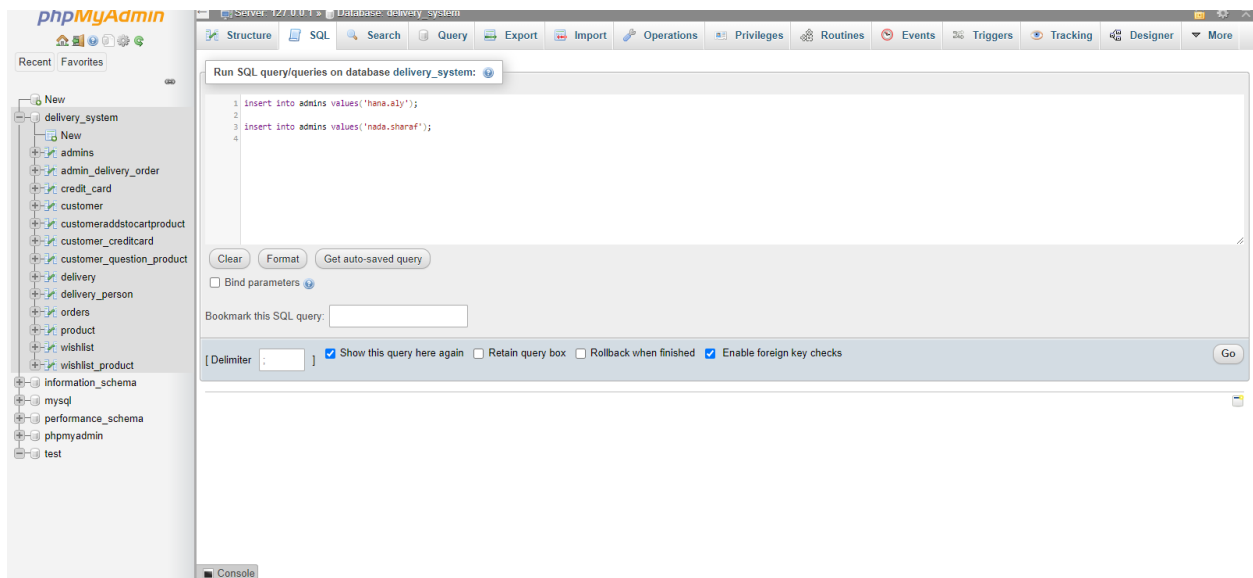
iv. Insert to delivery_person table
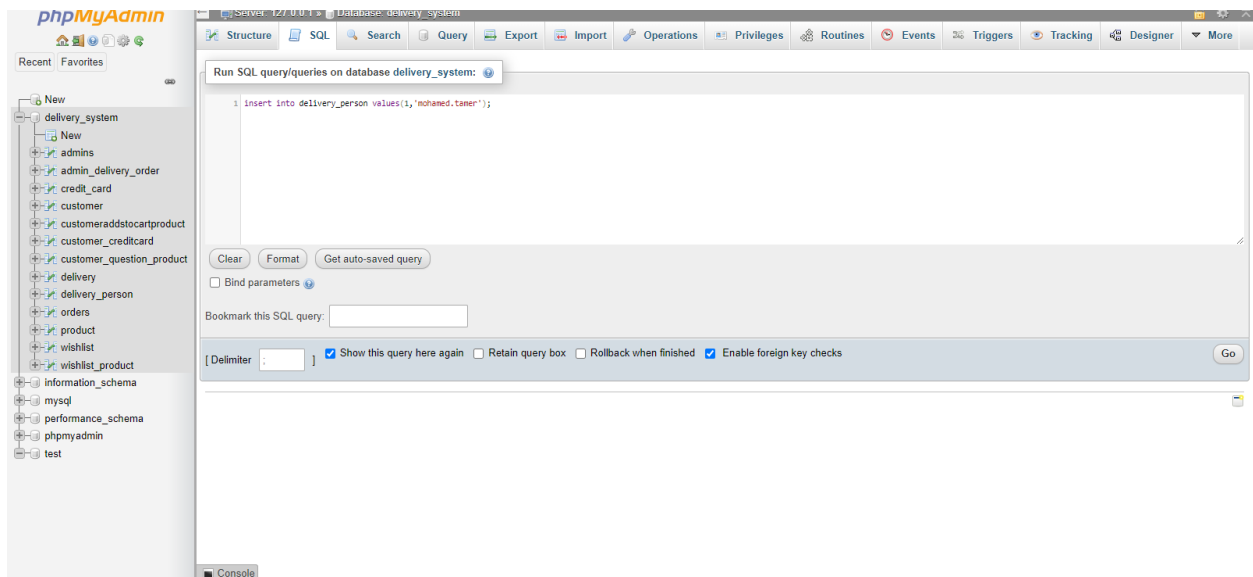
v. Insert to credit_card table
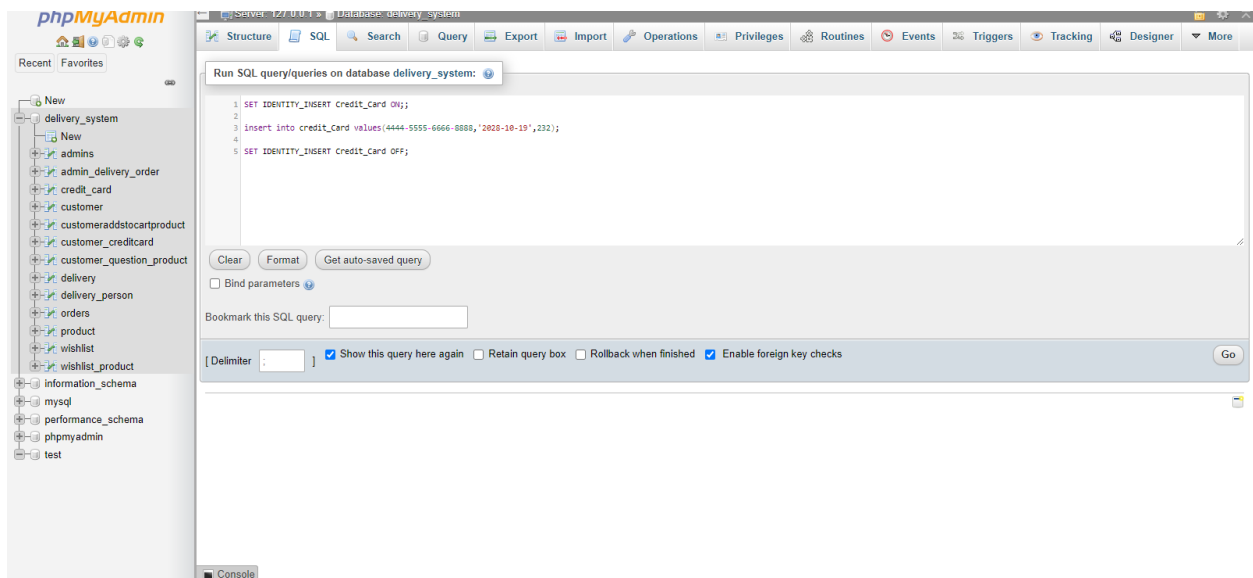
c. Sample of deleting data from tables

i. Delete data from customer table
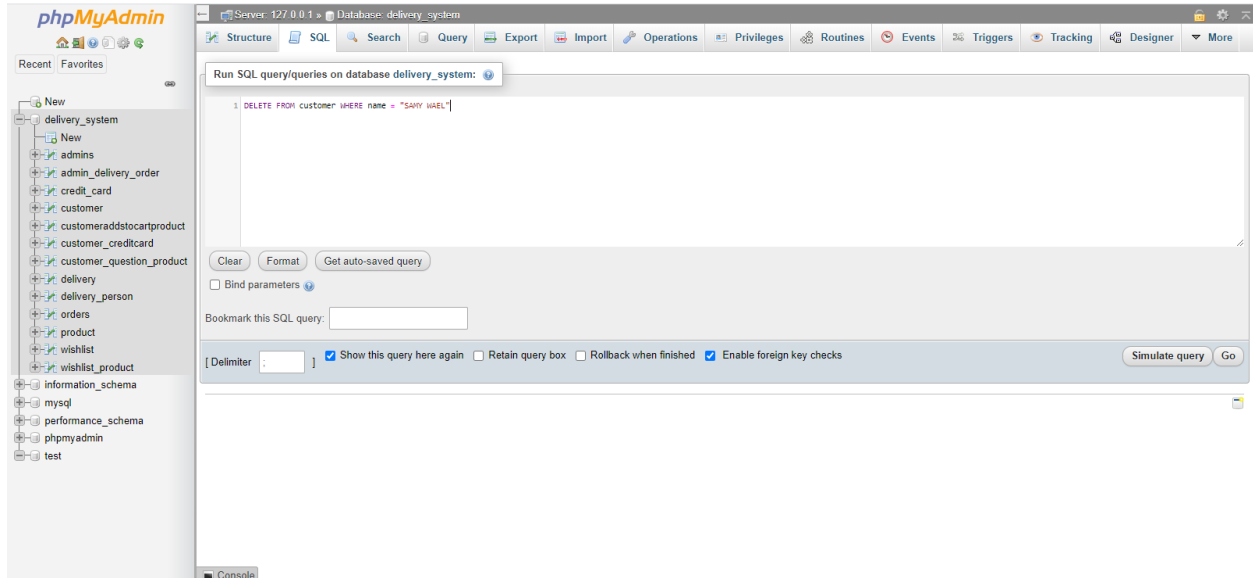
ii. Delete data from admins table
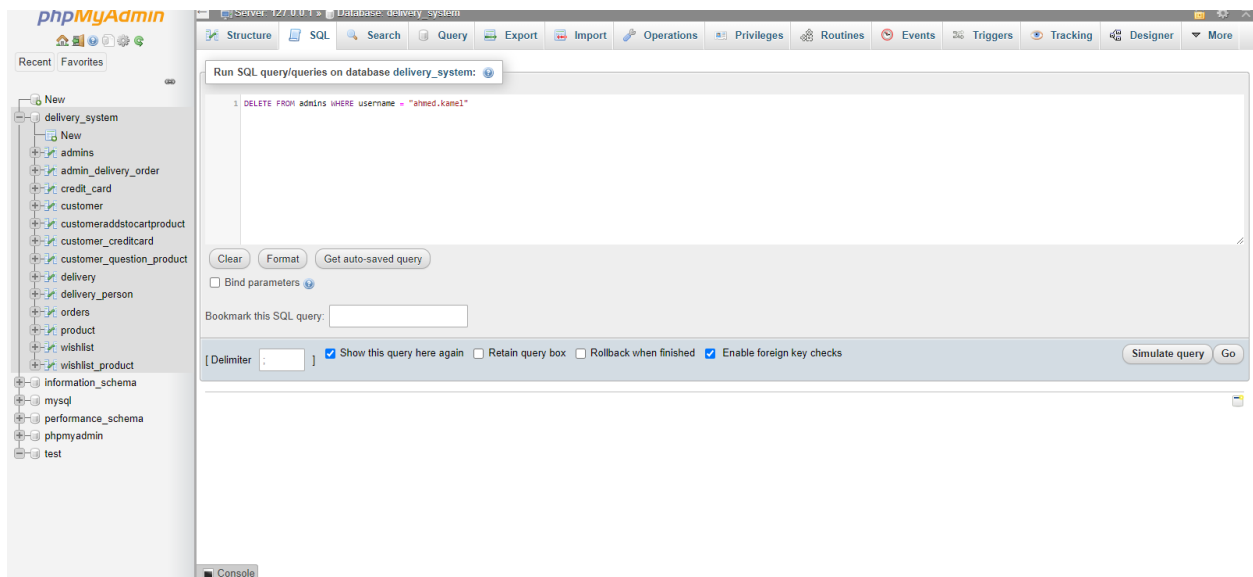
iii.   Delete data from delivery_person table
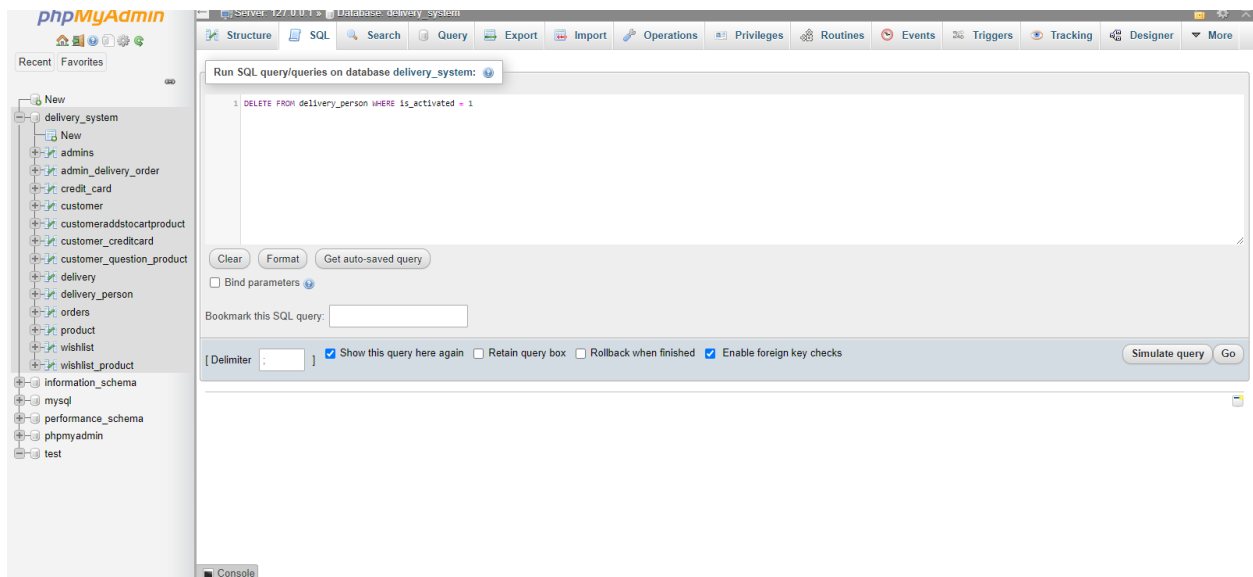
iv.   Delete data from credit_card table
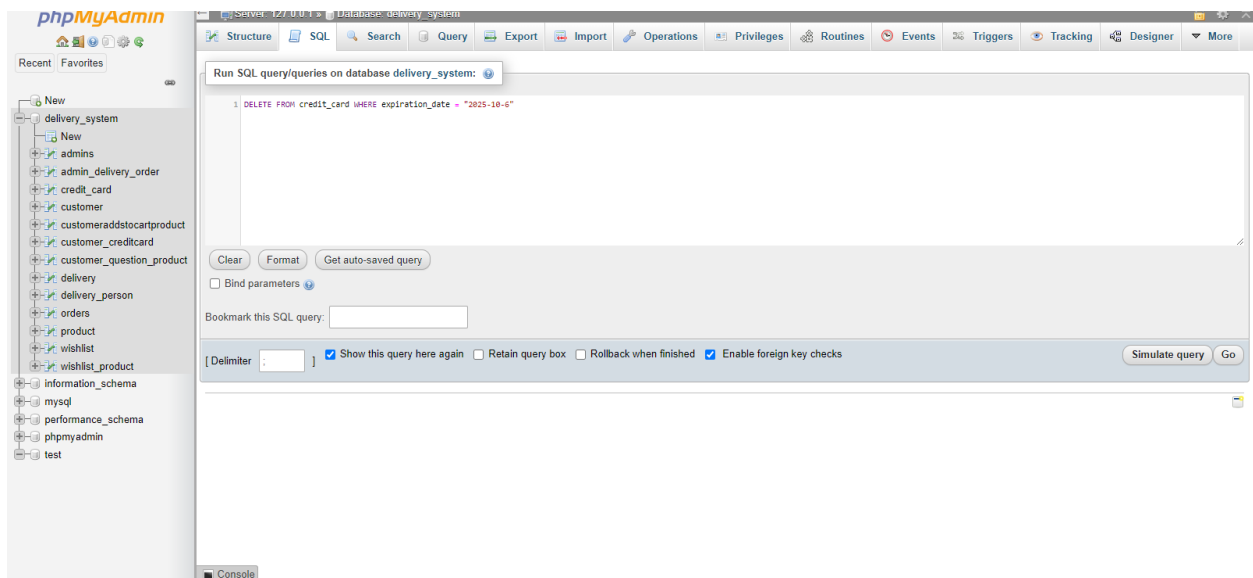
v. Delete data from product table
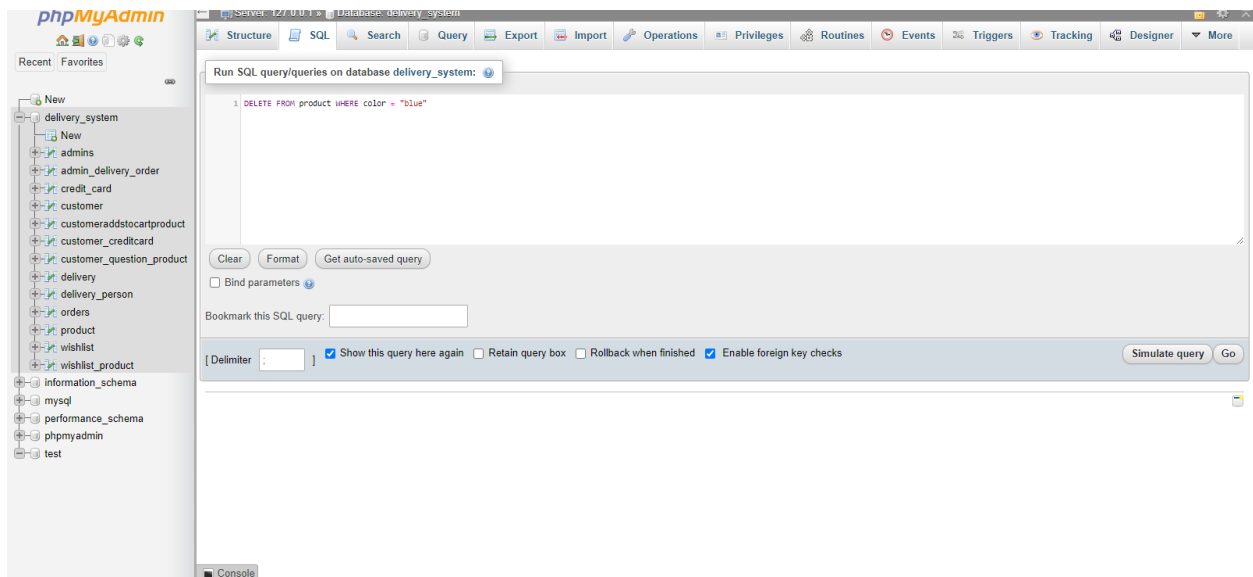
d. Sample update data in tables

i. Update customer cart no. to be 3 instead of 2
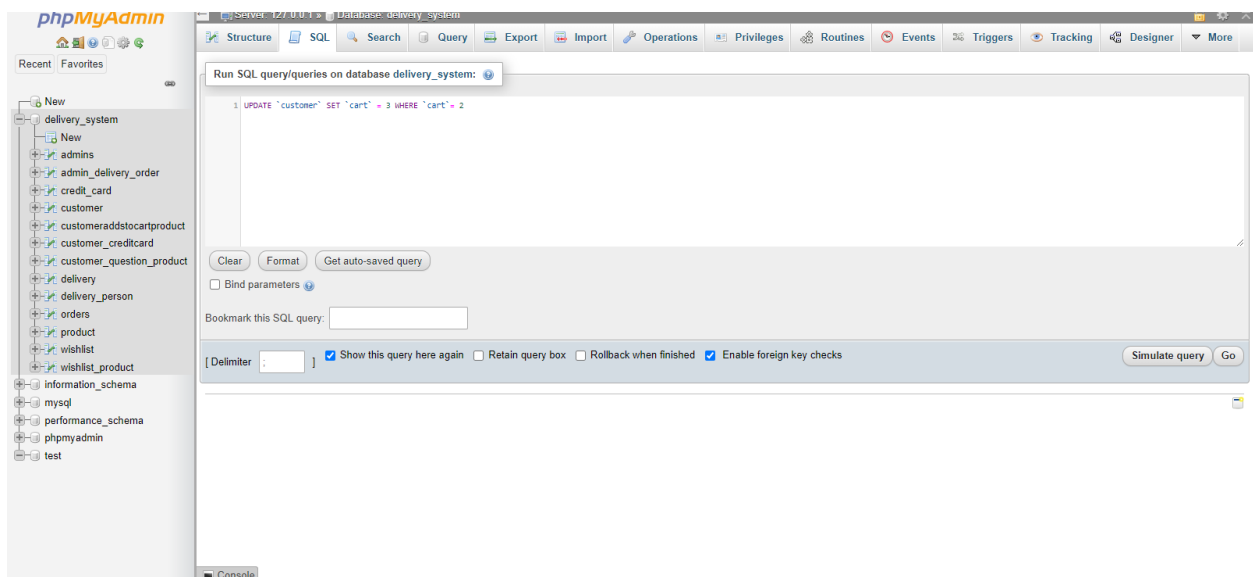
ii. Update product price to be 1500 instead of 1200
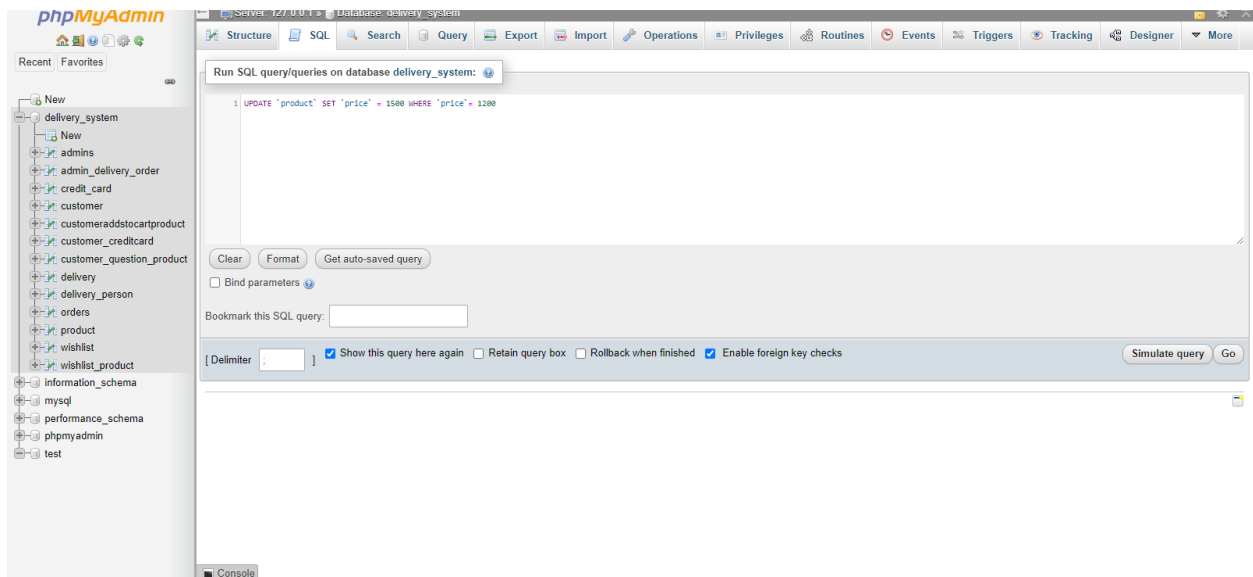
iii. Update order_status to be sold_out instead of available
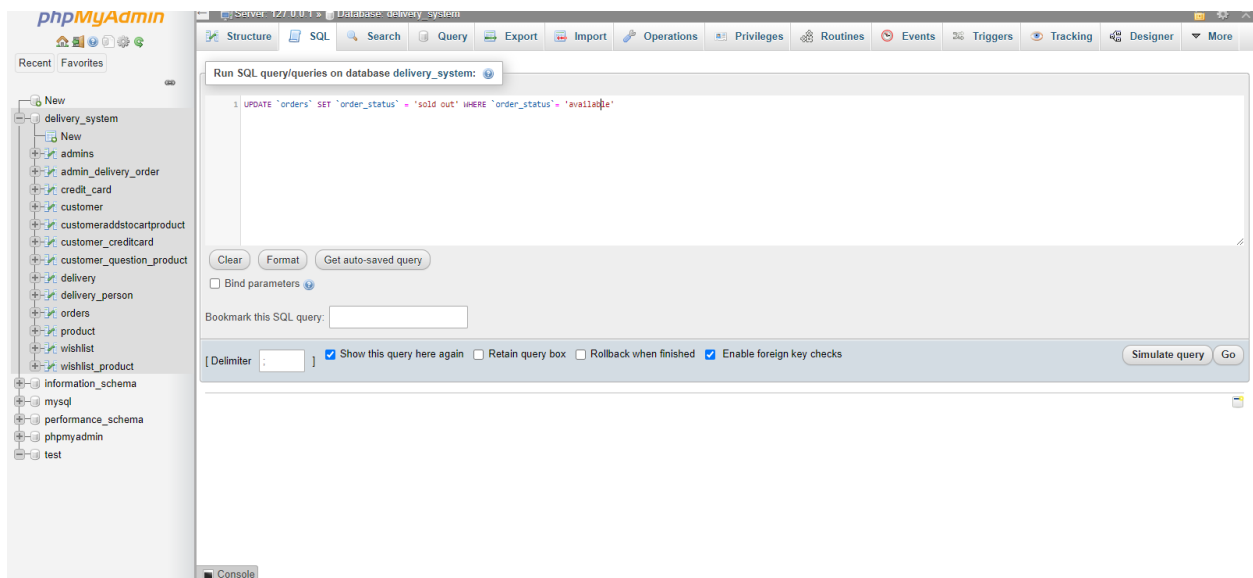
iv.   Update delivery fees to be 160 instead of 115
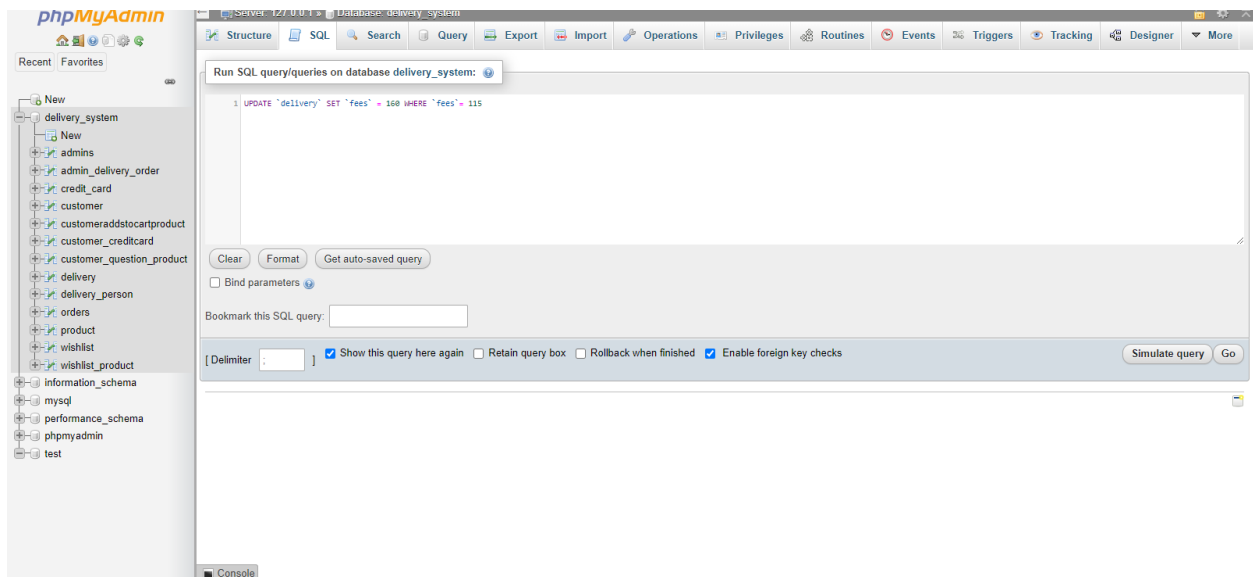
v.   Update orders payment method to be cash instead of credit_card
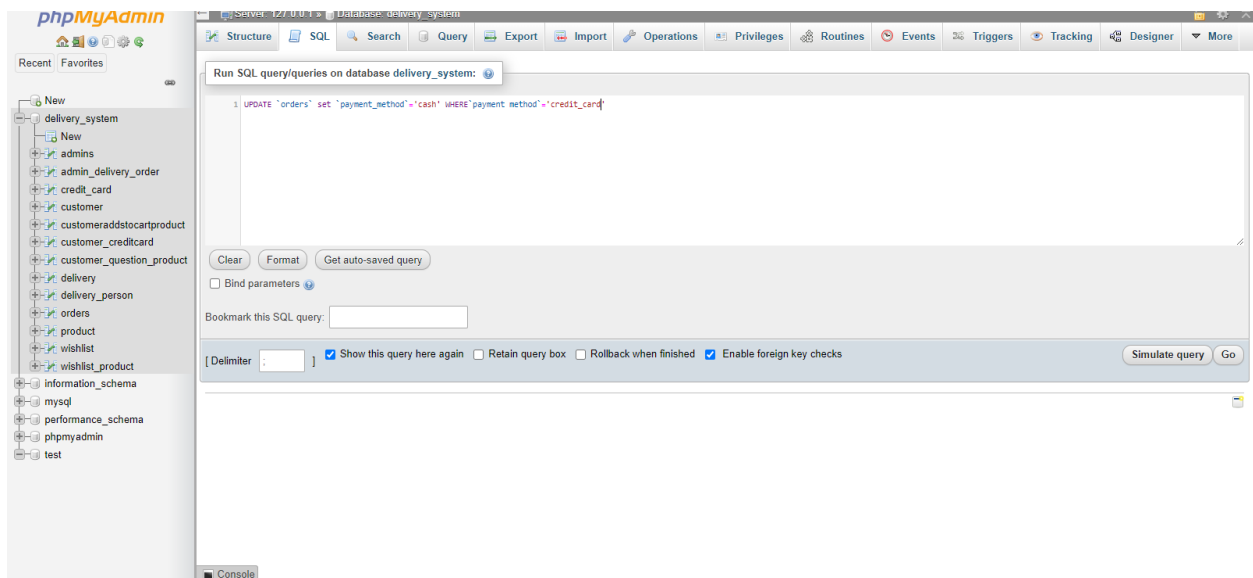
e. Sample of select data from table

i.   Select customers from Cairo city
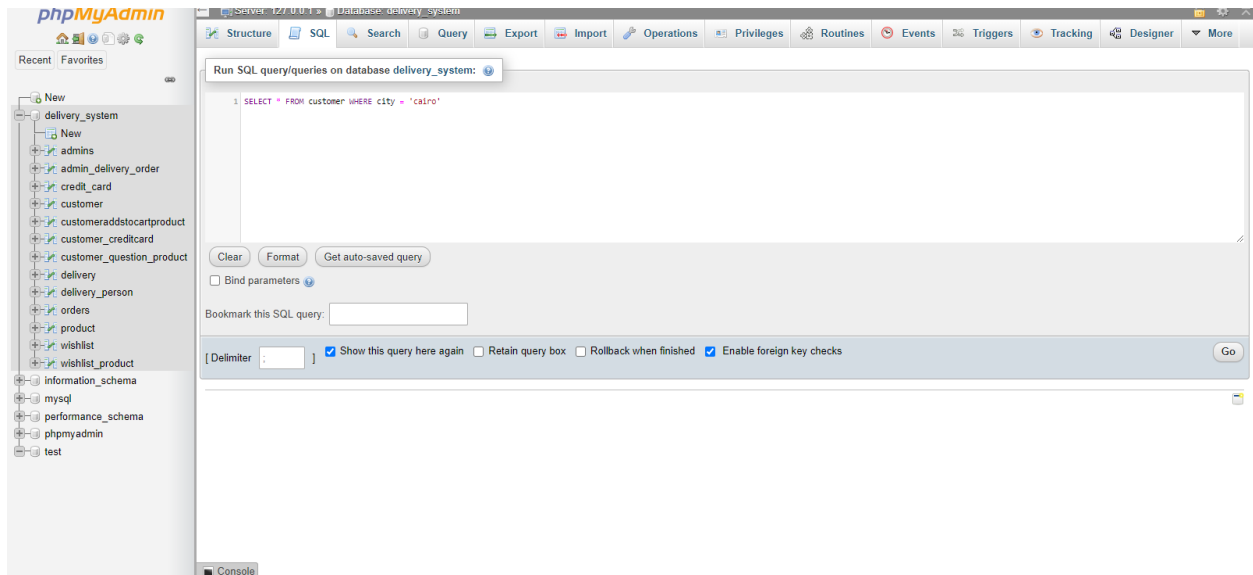
Selection
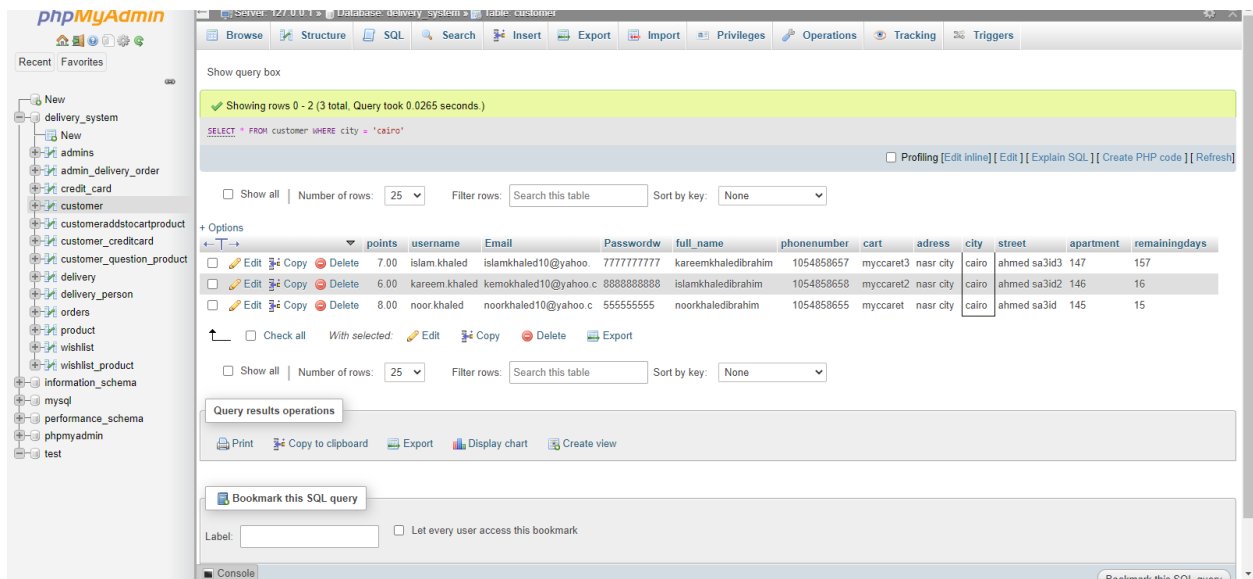
ii. Select blue product color
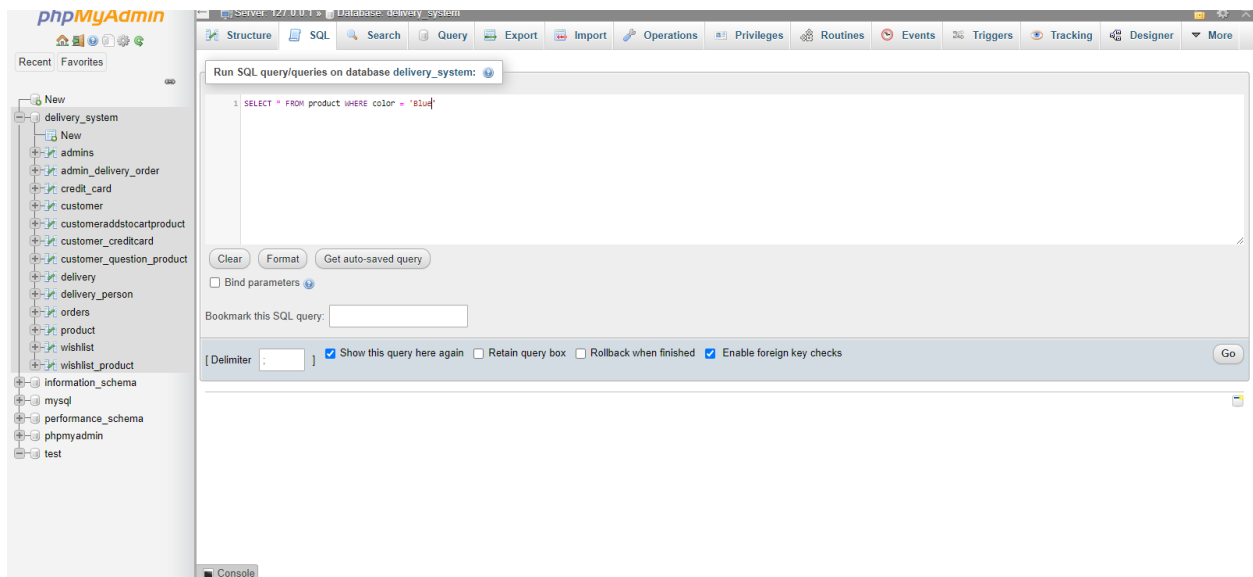
Selection
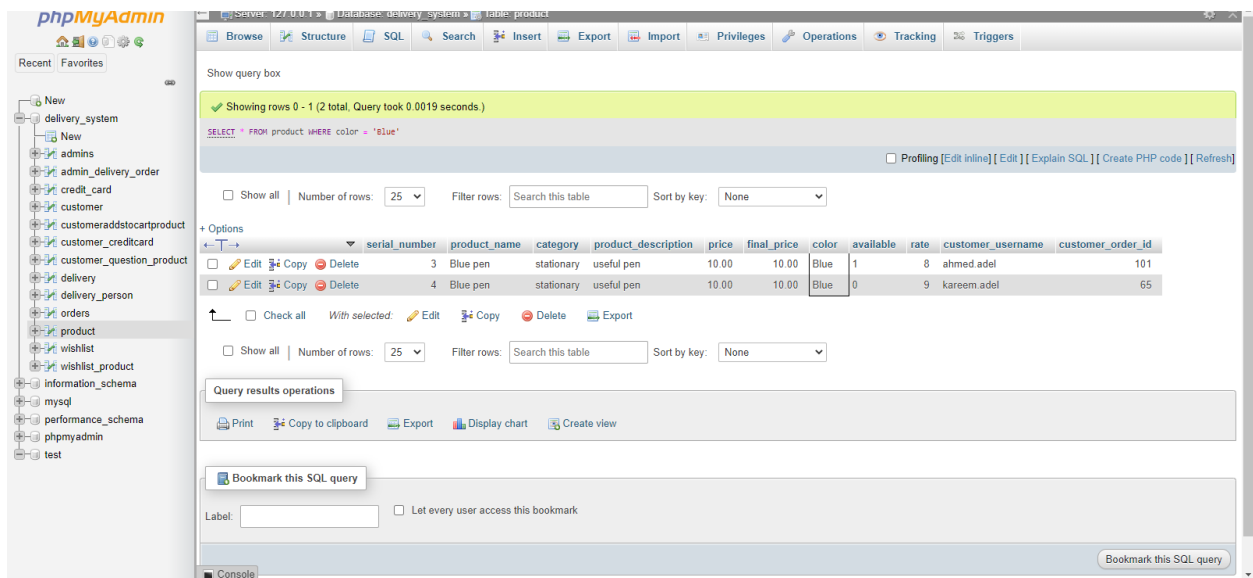
iii.   Select is_activated = 1 delivery_person
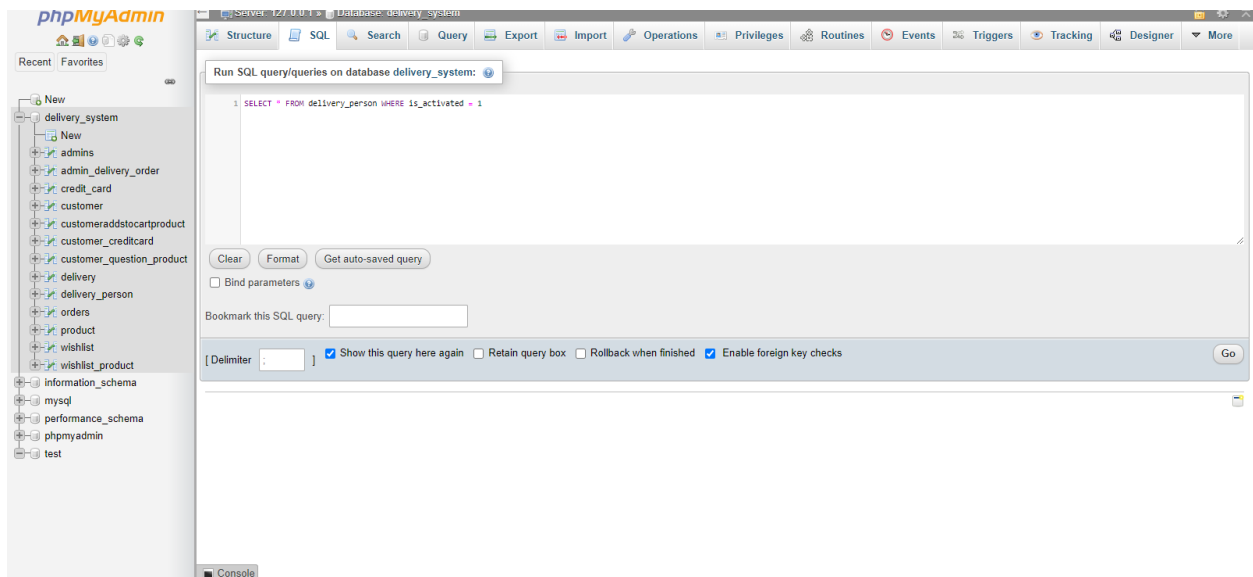
Selection
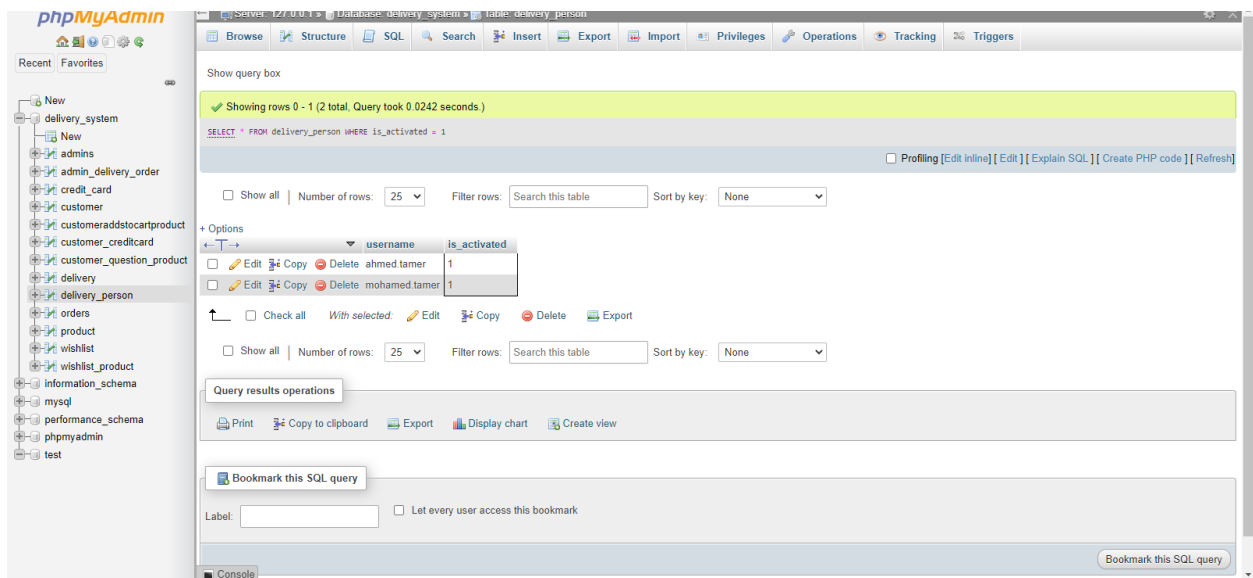
iv.   Select cvv = 232 from credit_card
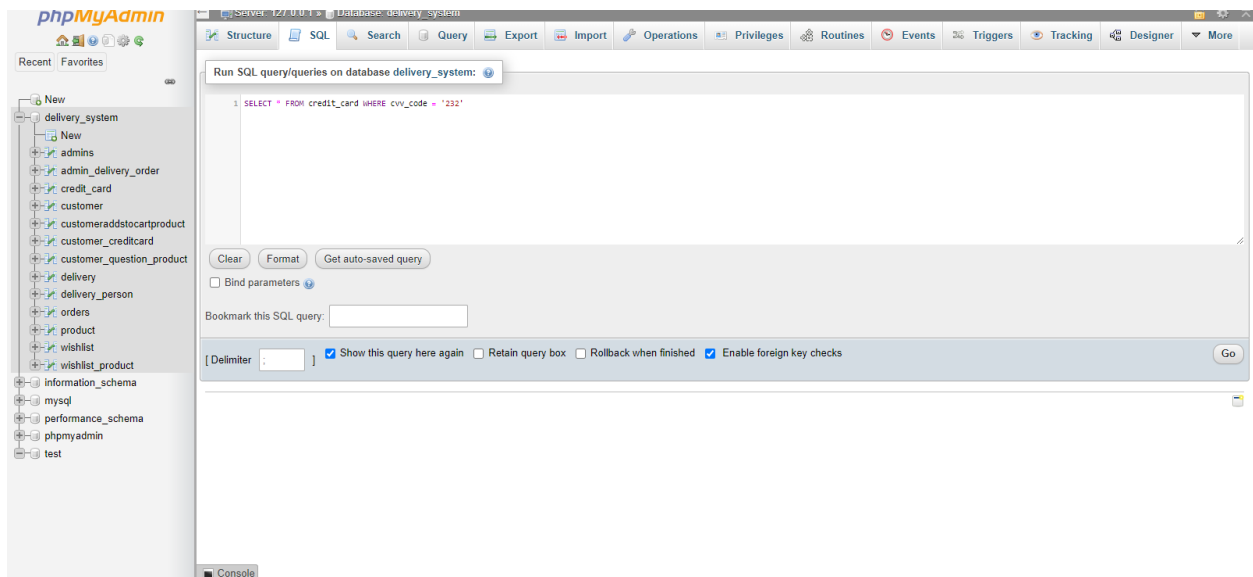
Selection
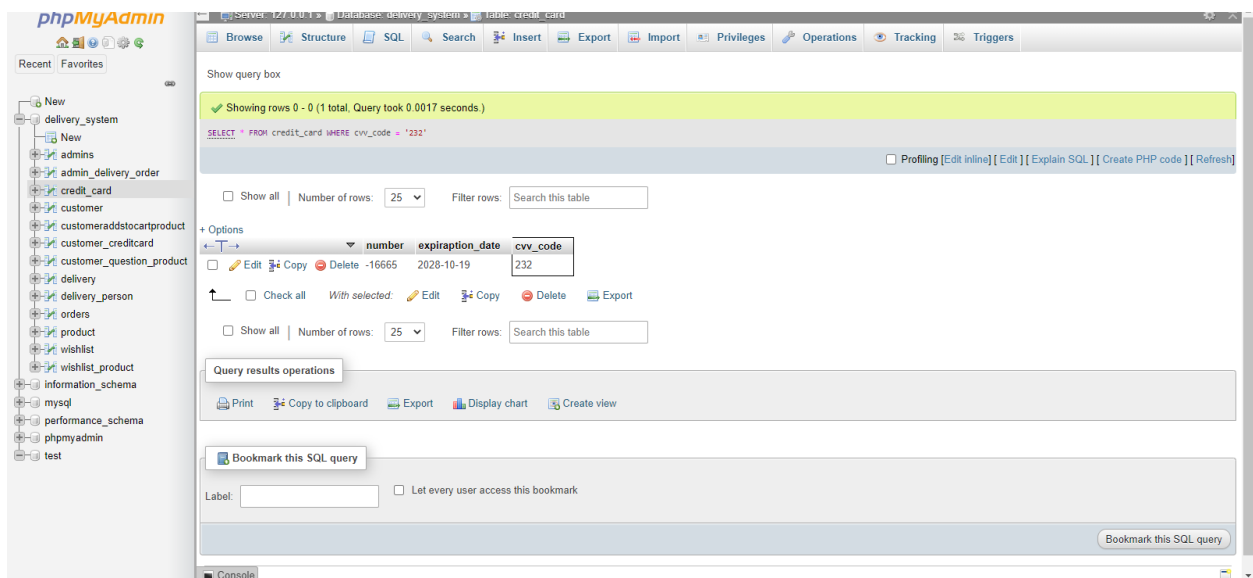
v. Select from delivery 'speedy' delivery_type
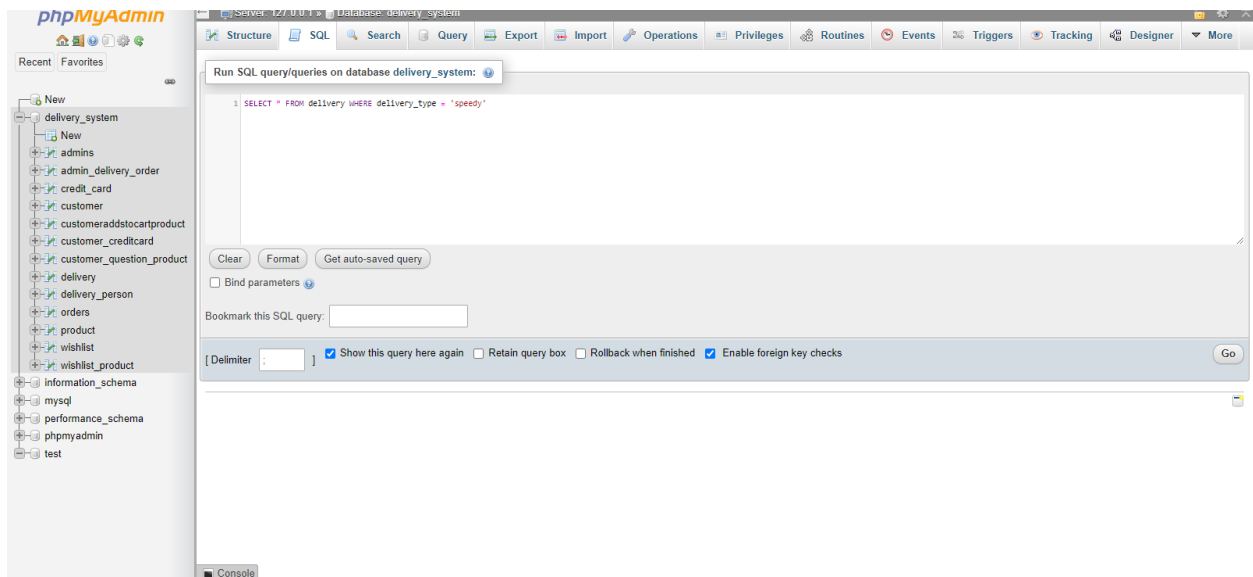
Selection
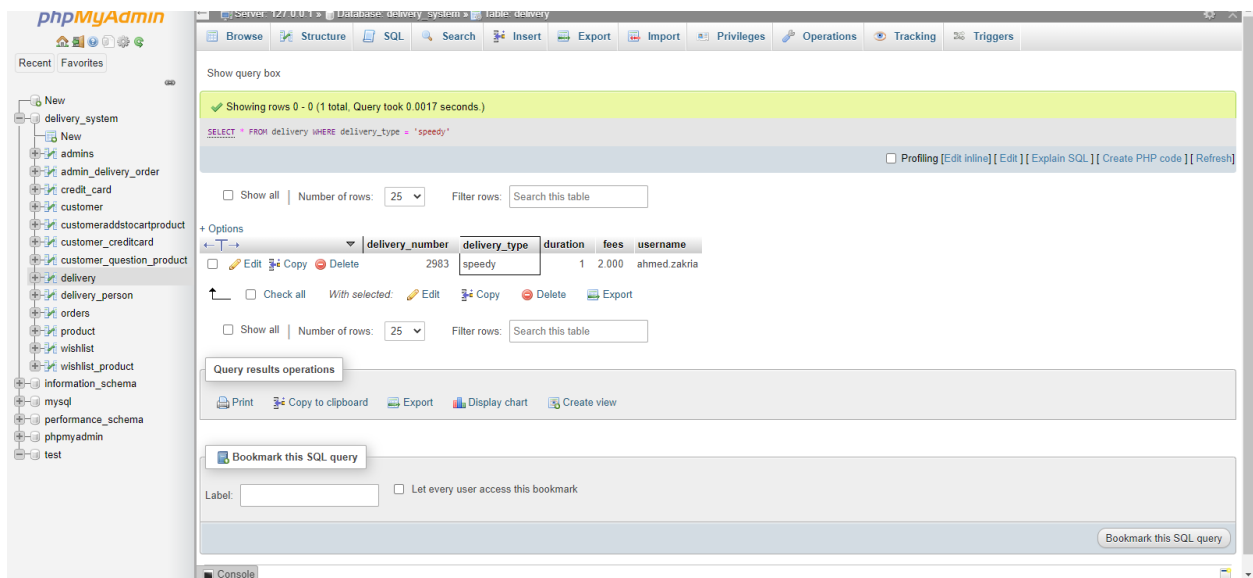
7. Implementation:

1. ERD Plus is a database modeling tool for creating Entity Relationship Diagrams, Relational Schemas, Star Schemas, and SQL DDL statements. ERD Plus is a web-based database modelling tool that lets you quickly and easily create).
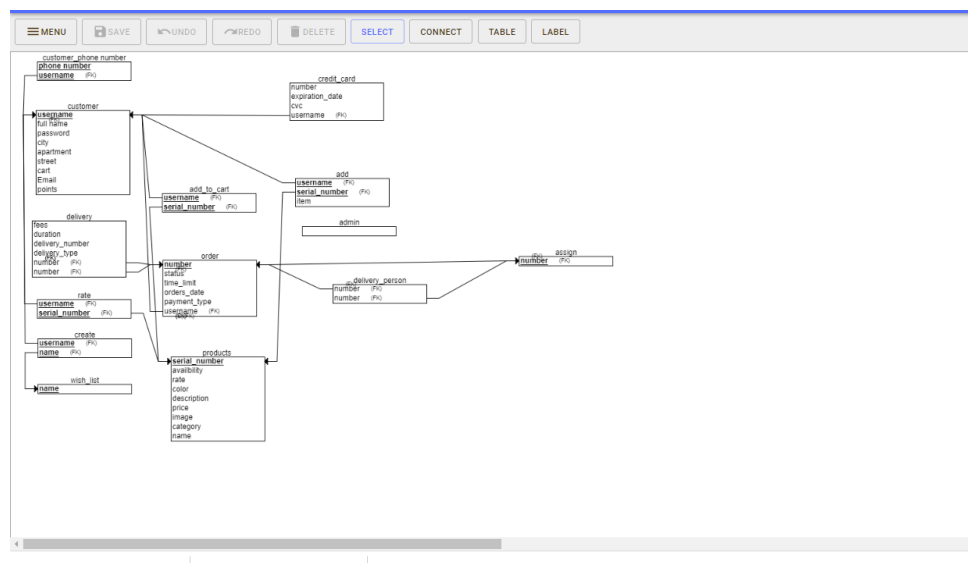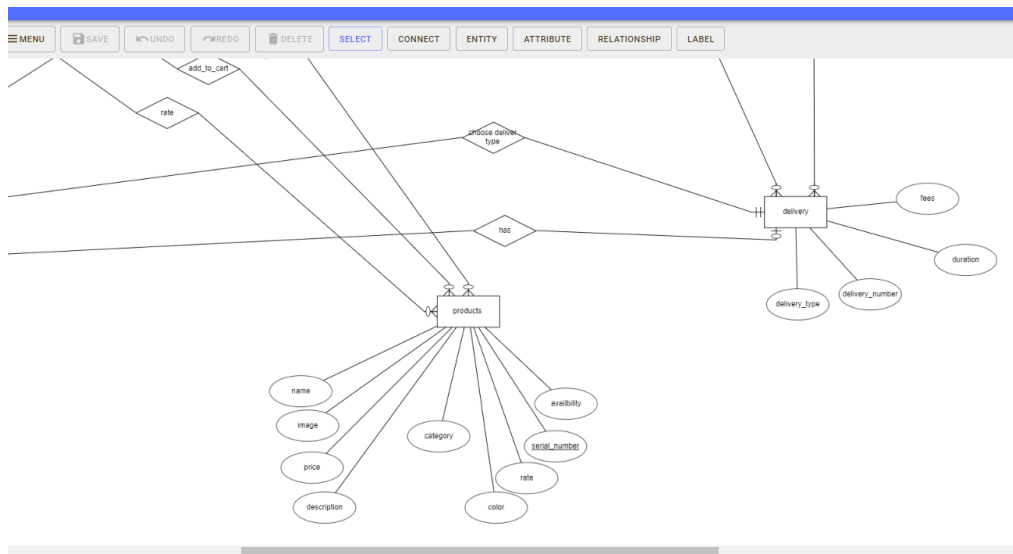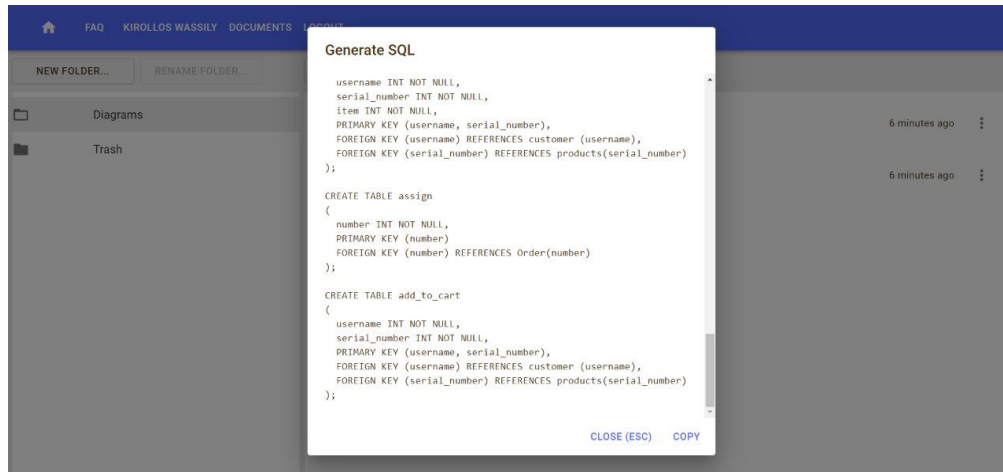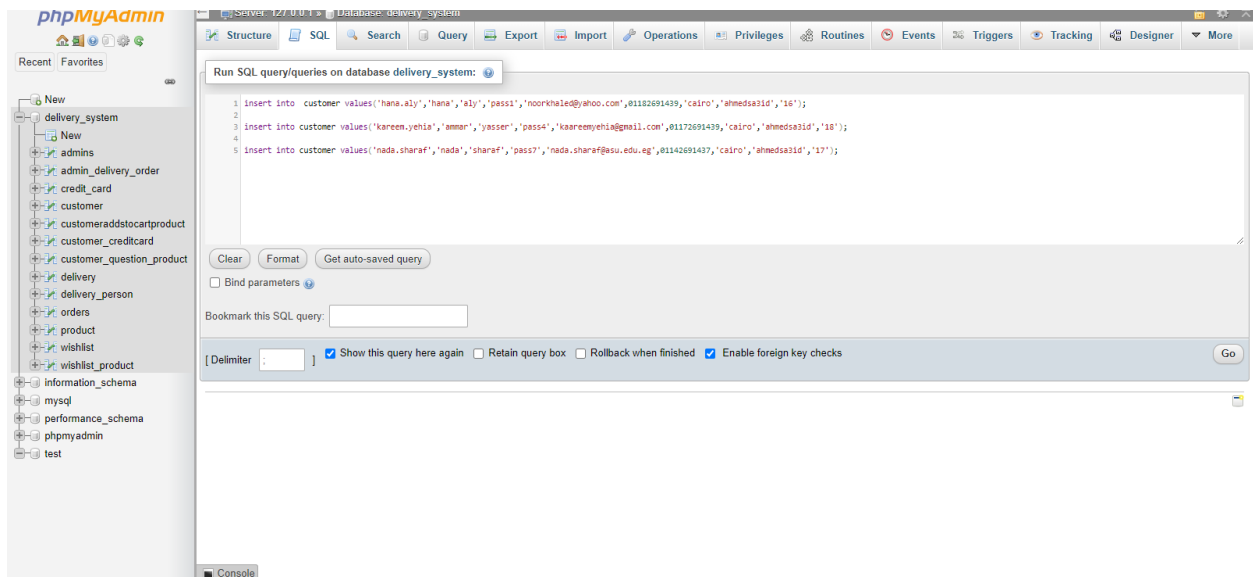
2. phpMyAdmin is a free online software tool written in PHP, supposed to deal with the management of MySQL over the Web.
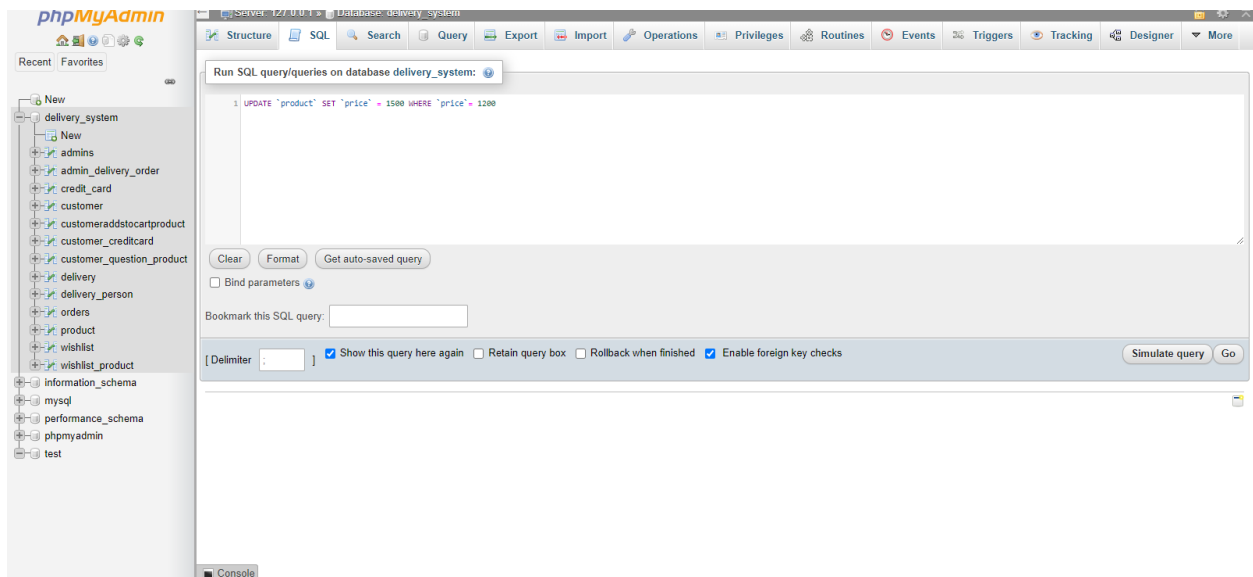
a. The samples
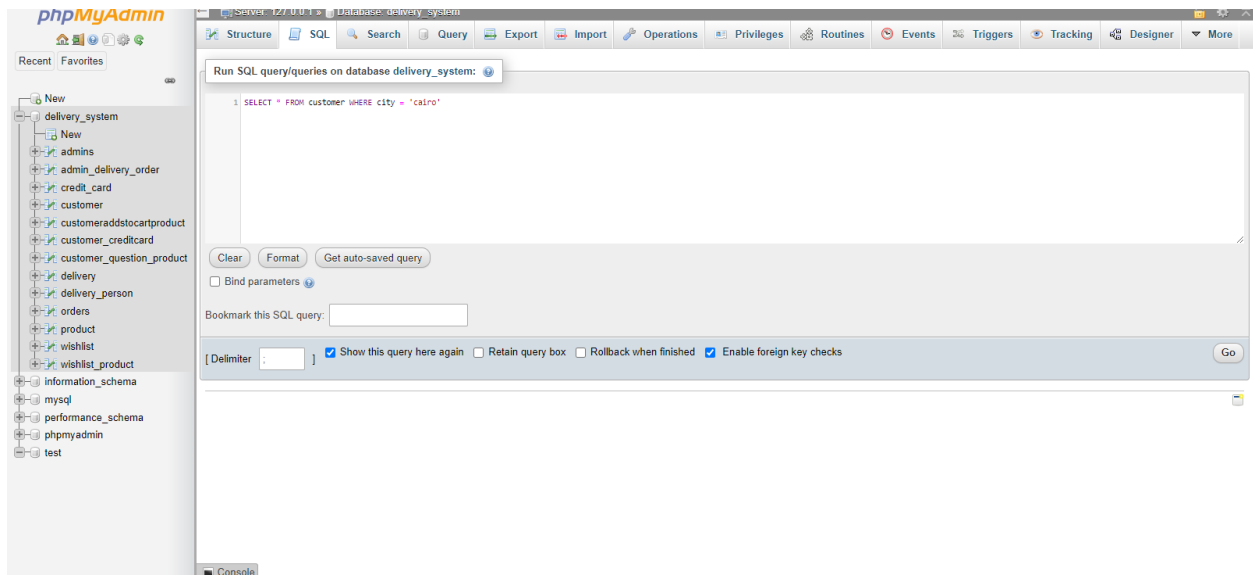
i. Sample of create
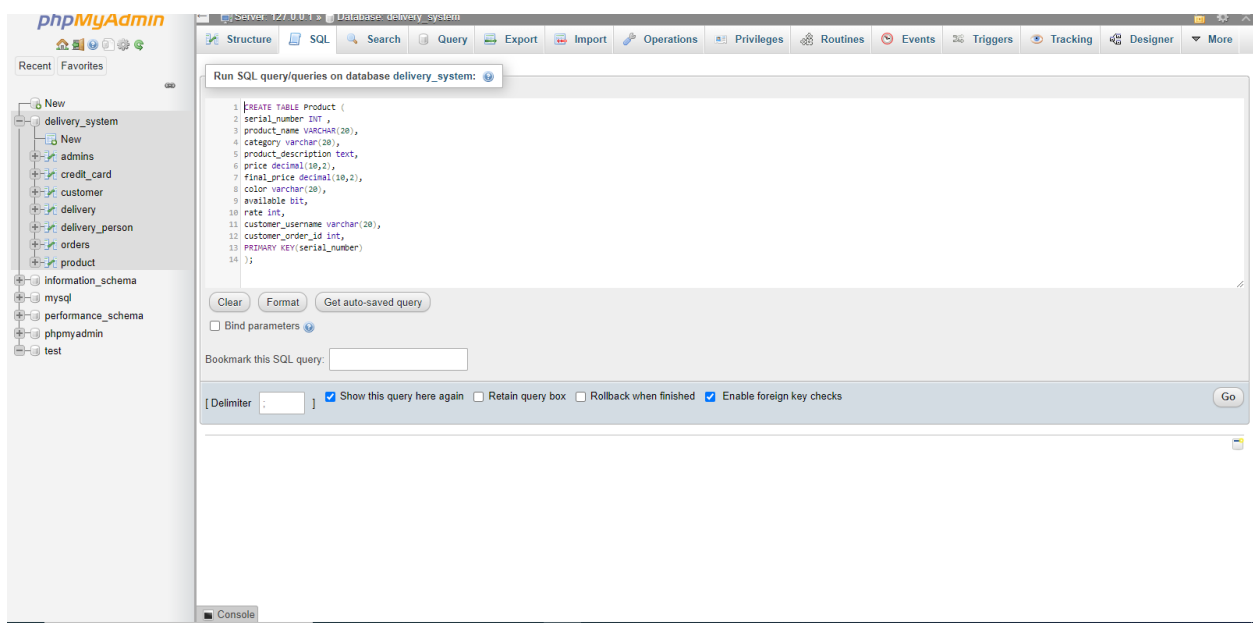
ii.   Sample of insert

iii.   Sample of delete
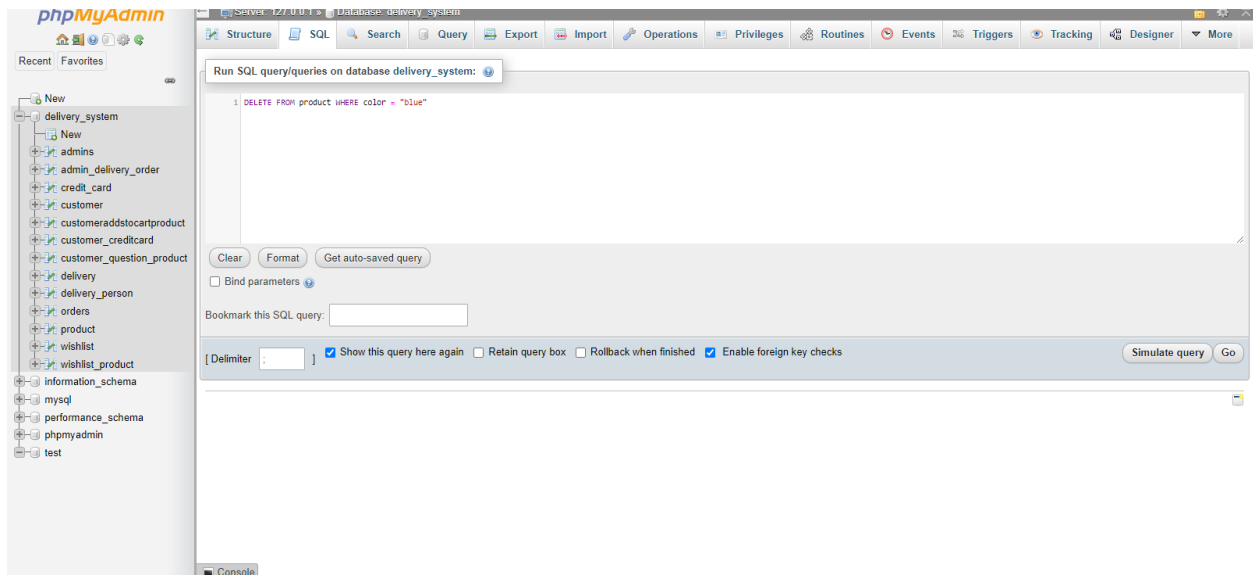
iv.   Sample of update
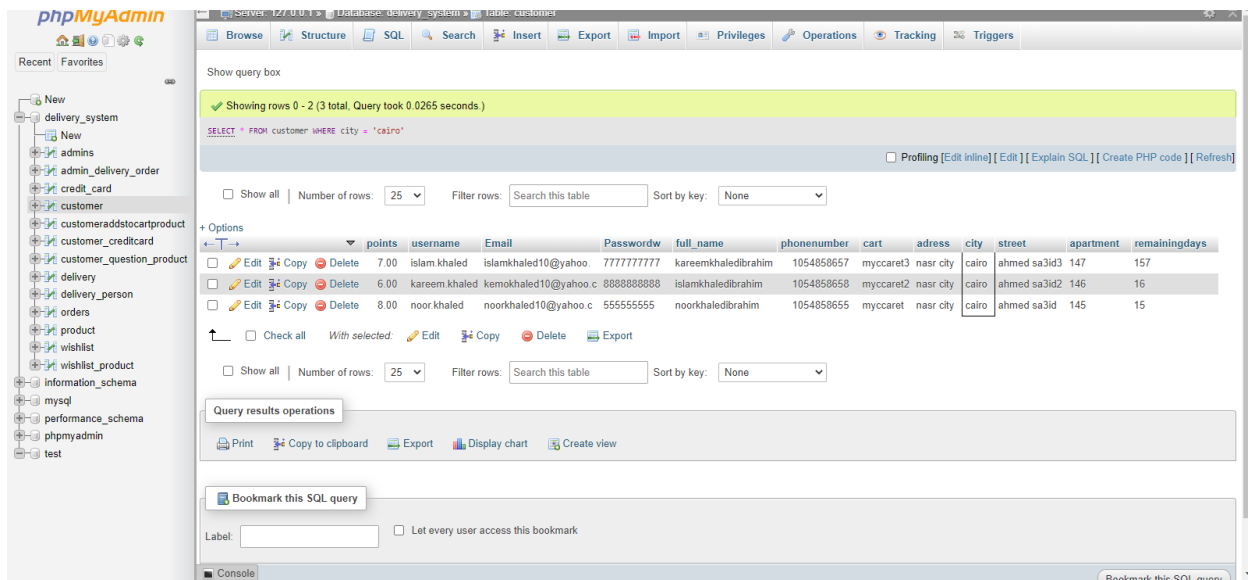
v.   Sample of selection

Selection

8. References:

1. Fundamentals of database systems (7th edition, 2015) By Ramez

2. Elmasri, Shamkant B. Navathe.

3. https://erdplus.com/ A link to ERD+ software.

4. www.phpmyadmin.net phpmyadmin web site.