PES UNIVERSITY

Department of Computer Science & Engineering

DBMS - UE20CS301

Mini Project

Inventory Management System

Submitted to:

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Semester: V

Section: F

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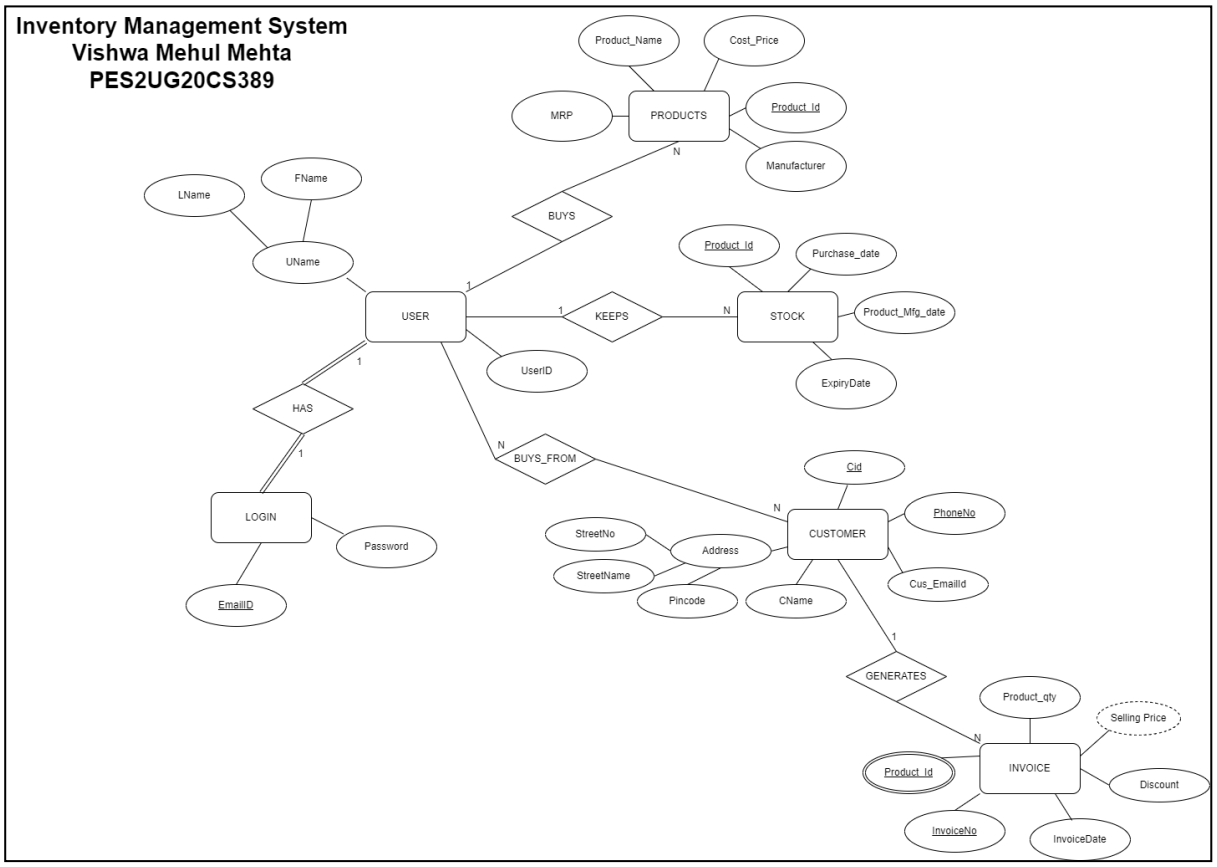
1. Short Description and Scope of the Project

ListAll is a web application that monitors and manages the goods and products in stock. The application uses a database and database operations to store information about the retailers and their respective products that are sold. It displays a list of all products and their quantities, customers who bought the items and their details along with invoice for each product purchased. It allows for performing CRUD operations for all the details. ListAll uses a simple frontend using Python based Streamlit and MySQL for the backend. The application aims to find profit/loss and generate it for a particular month or year as a future application.

2. ER Diagram


Inventory Management System
Vishwa Mehul Mehta
PES2UG20CS389
Product_Name
Cost_Price
MRP
PRODUCTS
Product_Id
Manufacturer
N
BUYS
LName
FName
UName
1
USER
1
KEEPS
N
STOCK
Product_Id
Purchase_date
Product_Mfg_date
ExpiryDate
UserID
1
HAS
1
LOGIN
Password
EmailID
N
BUYS_FROM
N
CUSTOMER
Cid
PhoneNo
StreetNo
Address
StreetName
Pincode
CName
Cus_EmailId
1
GENERATES
N
INVOICE
Product_qty
Selling Price
Product_Id
Discount
InvoiceNo
InvoiceDate

3. Relational Schema

Inventory Management System
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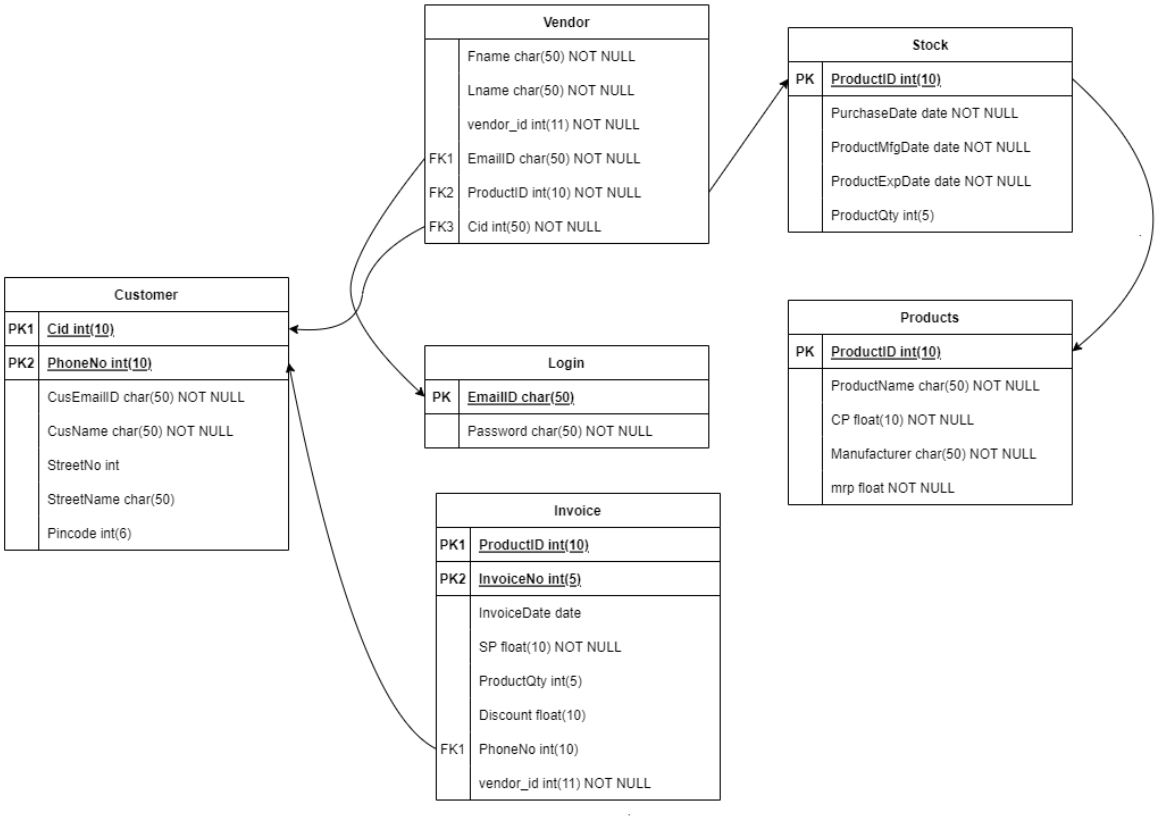


4. DDL statements - Building the database

```
-- Table structure for table `customer`
--
CREATE TABLE IF NOT EXISTS `customer` (
  `cust_id` int(10) NOT NULL,
  `phone_no` bigint(10) NOT NULL,
  `cust_email_id` varchar(50) NOT NULL,
  `cust_name` varchar(50) NOT NULL,
  `str_no` int(11) DEFAULT NULL,
  `str_name` varchar(50) DEFAULT NULL,
  `pincode` int(6) DEFAULT NULL,
  PRIMARY KEY (`cust_id`,`phone_no`)
) ENGINE=MyISAM DEFAULT CHARSET=utf8;

-- Table structure for table `invoice`
--
CREATE TABLE IF NOT EXISTS `invoice` (
  `prod_id` int(10) NOT NULL,
  `invoice_no` int(10) NOT NULL,
  `invoice_date` date NOT NULL,
  `selling_price` float NOT NULL,
  `prod_qty` int(11) DEFAULT '0',
  `discount` float DEFAULT NULL,
  `phone_no` bigint(10) DEFAULT NULL,
  `vendor_id` int(11) NOT NULL,
  PRIMARY KEY (`prod_id`,`invoice_no`),
  KEY `phone_no` (`phone_no`)
) ENGINE=MyISAM DEFAULT CHARSET=utf8;
```

```
-- Table structure for table `login`
--
CREATE TABLE IF NOT EXISTS `login` (
  `email_id` varchar(50) NOT NULL,
  `pass` varchar(50) NOT NULL,
  PRIMARY KEY (`email_id`)
) ENGINE=MyISAM DEFAULT CHARSET=utf8;

-- Table structure for table `product`
--
CREATE TABLE IF NOT EXISTS `product` (
  `product_id` int(10) NOT NULL,
  `product_name` varchar(50) NOT NULL,
  `cost_price` float NOT NULL,
  `manufacturer` varchar(50) NOT NULL,
  `mrp` float NOT NULL,
  PRIMARY KEY (`product_id`)
) ENGINE=MyISAM DEFAULT CHARSET=utf8;

-- Table structure for table `stock`
--
CREATE TABLE IF NOT EXISTS `stock` (
  `pid` int(10) NOT NULL,
  `purchase_date` date NOT NULL,
  `mfg_date` date NOT NULL,
  `pqty` int(11) DEFAULT '0',
  PRIMARY KEY (`pid`)
) ENGINE=MyISAM DEFAULT CHARSET=utf8;

-- Table structure for table `vendor`
--
```

```
CREATE TABLE IF NOT EXISTS `vendor` (
  `fname` varchar(50) NOT NULL,
  `lname` varchar(50) NOT NULL,
  `vendor_id` int(11) NOT NULL,
  `email_id` varchar(50) NOT NULL,
  `product_id` int(10) DEFAULT NULL,
  `cust_id` int(10) DEFAULT NULL,
  KEY `email_id` (`email_id`),
  KEY `cust_id` (`cust_id`),
  KEY `product_id` (`product_id`)
) ENGINE=MyISAM DEFAULT CHARSET=utf8;
```

5. Populating the Database

```
-- Dumping data for table `customer`

--

INSERT INTO `customer` (`cust_id`, `phone_no`, `cust_email_id`,
`cust_name`, `str_no`, `str_name`, `pincode`) VALUES

(57317, 5289998172, 'inderpal@gmail.com', 'Inderpal Ravinder', 12,
'Goel Street', 649721),

(26864, 8043894922, 'ishi@gmail.com', 'Ishita Devraj', 14,
'Ramkissoon Street', 427425),

(58462, 8545588678, 'anikp@gmail.com', 'Anik Prabhakar', 56,
'Sekhon Street', 139845),

(63698, 3816889497, 'ninadram@gmail.com', 'Ninad Ram', 37, 'Kari
Street', 456639),

(33295, 9489333654, 'devis@yahoo.com', 'Devi Sunder', 28,
'Subramaniam Street', 376921),

(22150, 9056364822, 'rama123@yahoo.com', 'Ramadevi Gopala', 57,
'Sen Street', 758086),

(76443, 7294778333, 'pravinajaya@gmail.com', 'Pravina Jaya', 22,
'Raja Street', 591648),

(45406, 4305436406, 'anilabhi@gmail.com', 'Anil Abhishek', 71,
'Shroff Street', 234740),

(26864, 8145956923, 'nilofara@hotmail.com', 'Nilofar Amardeep', 83,
'Vig Street', 158657),

(43143, 5636459498, 'vinayarvind24@hotmail.com', 'Vinay Aravind',
26, 'Chakraborty Street', 525343);


-- Dumping data for table `invoice`

--

INSERT INTO `invoice` (`prod_id`, `invoice_no`, `invoice_date`,
`selling_price`, `prod_qty`, `discount`, `phone_no`, `vendor_id`)
VALUES

(59854, 38980, '2022-10-22', 22.8, 2, 0.2, 5289998172, 75071),

(59854, 85957, '2022-10-23', 22.8, 2, 0.2, 8043894922, 75071),

(59854, 99454, '2022-10-23', 22.8, 2, 0.2, 8545588678, 40101);
```

```
-- Dumping data for table `login`
--
INSERT INTO `login` (`email_id`, `pass`) VALUES
('harry@gmail.com', 'har1234%'),
('ramesh@gmail.com', 'rameshH234'),
('ram@gmail.com', 'ram135&'),
('ranjeeta@gmail.com', 'ran234%'),
('rakesh@gmail.com', 'rakeshm345');

-- Dumping data for table `product`
--
INSERT INTO `product` (`product_id`, `product_name`, `cost_price`,
`manufacturer`, `mrp`) VALUES
(59854, 'milk', 15, 'Amul', 19),
(53028, 'curd', 30, 'Amul', 34),
(56145, 'butter', 25, 'Amul', 28),
(81010, 'cow milk', 15, 'Nandini', 17),
(99016, 'yougurt', 25, 'Nandini', 30),
(15292, 'paneer', 55, 'Milky Mist', 60),
(45124, 'cheese', 85, 'Amul', 90),
(14270, 'ghee', 440, 'Nandini', 450),
(86934, 'ice cream family pack', 180, 'Quality Walls', 200),
(98390, 'ice cream cone', 35, 'Cornetto', 40);

-- Dumping data for table `stock`
--
INSERT INTO `stock` (`pid`, `purchase_date`, `mfg_date`, `pqty`)
VALUES
(59854, '2022-10-21', '2022-10-21', 80),
(53028, '2022-10-18', '2022-10-18', 90),
```

```
(56145, '2022-10-12', '2022-10-10', 60),
(81010, '2022-10-21', '2022-10-21', 60),
(99016, '2022-10-17', '2022-10-16', 50),
(15292, '2022-10-19', '2022-10-19', 30),
(45124, '2022-10-04', '2022-09-29', 35),
(14270, '2022-10-02', '2022-09-20', 40),
(86934, '2022-09-20', '2022-09-10', 50),
(98390, '2022-10-01', '2022-09-30', 35);


-- Dumping data for table `vendor`
--
INSERT INTO `vendor` (`fname`, `lname`, `vendor_id`, `email_id`,
`product_id`, `cust_id`) VALUES
('harry', 'singh', 75071, 'harry@gmail.com', 59854, 57317),
('harry', 'singh', 75071, 'harry@gmail.com', 59854, 26864),
('harry', 'singh', 75071, 'harry@gmail.com', 59854, 58462),
('harry', 'singh', 75071, 'harry@gmail.com', 53028, 57317),
('harry', 'singh', 75071, 'harry@gmail.com', 14270, 58462),
('harry', 'singh', 75071, 'harry@gmail.com', 59854, 63698),
('harry', 'singh', 75071, 'harry@gmail.com', 98390, 63698),
('ramesh', 'sharma', 40101, 'ramesh@gmail.com', 59854, 33295),
('ramesh', 'sharma', 40101, 'ramesh@gmail.com', 15292, 33295),
('ramesh', 'sharma', 40101, 'ramesh@gmail.com', 59854, 33295),
('ramesh', 'sharma', 40101, 'ramesh@gmail.com', 14270, 22150),
('ramesh', 'sharma', 40101, 'ramesh@gmail.com', 59854, 22150),
('ram', 'c', 70978, 'ram@gmail.com', 53028, 76443),
('ram', 'c', 70978, 'ram@gmail.com', 59854, 76443),
('ranjeeta', 's', 94138, 'ranjeeta@gmail.com', 59854, 45406),
('ranjeeta', 's', 94138, 'ranjeeta@gmail.com', 45124, 26864),
('ranjeeta', 's', 94138, 'ranjeeta@gmail.com', 98390, 45406),
('rakesh', 'sharma', 29690, 'rakesh@gmail.com', 81010, 43143),
```

```
('rakesh', 'sharma', 29690, 'rakesh@gmail.com', 15292, 43143);
```

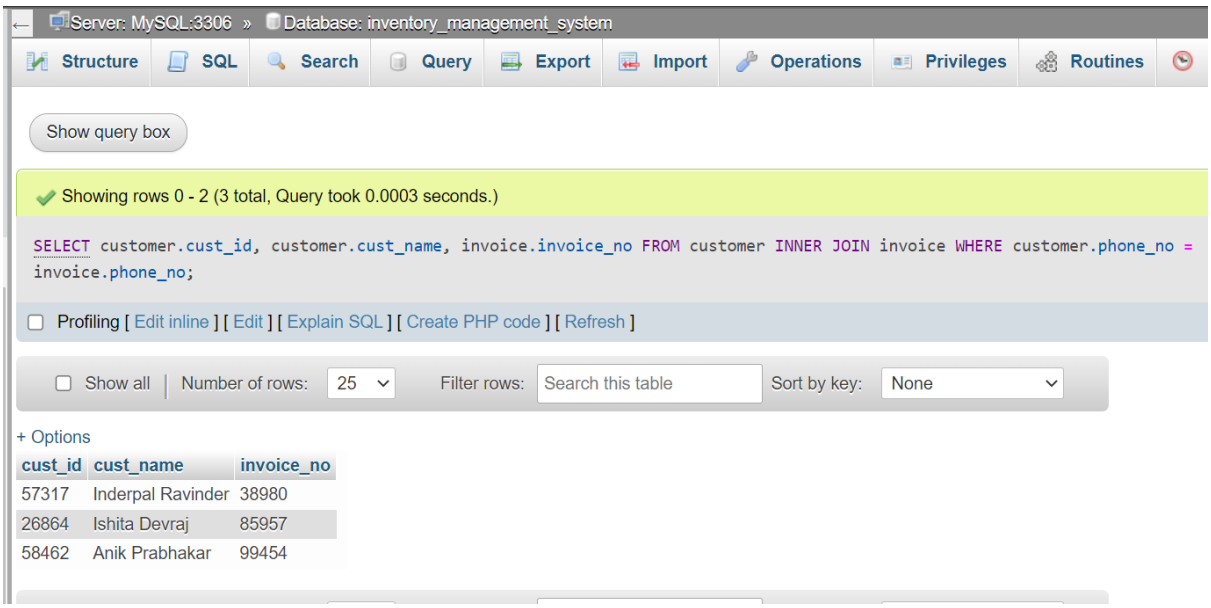
6. Join Queries

a. List of all customers that have an invoice associated with them.

Query:

```
SELECT customer.cust_id, customer.cust_name, invoice.invoice_no FRO
M customer INNER JOIN invoice WHERE customer.phone_no = invoice.pho
ne_no;
```

Screenshot:

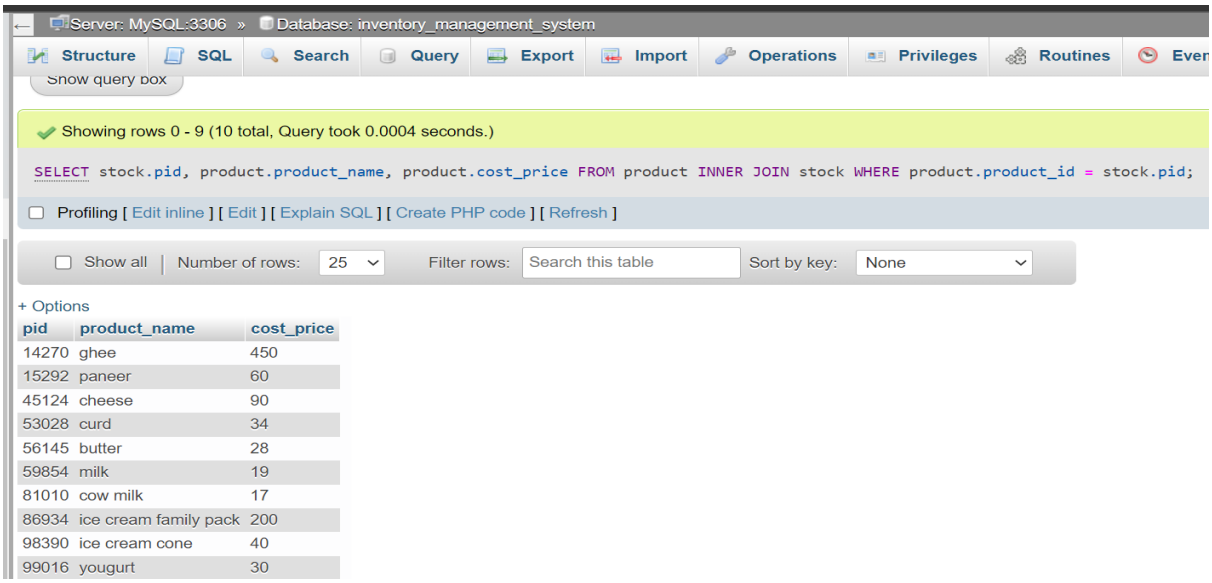


b. List all the cost prices of products in stock.

Query:

```
SELECT stock.pid, product.product_name, product.cost_price FROM
product INNER JOIN stock WHERE product.product_id = stock.pid;
```

Screenshot:

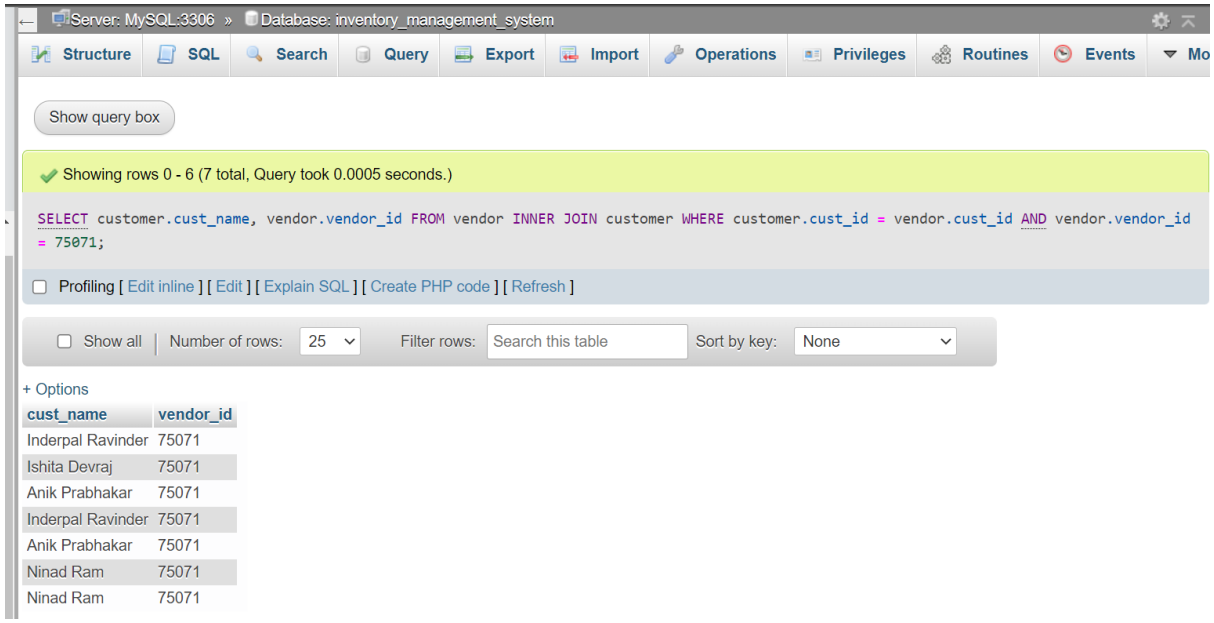


c. List all customer names who visit a certain vendor.

Query:

```
SELECT customer.cust_name, vendor.vendor_id FROM vendor INNER JOIN customer WHERE customer.cust_id = vendor.cust_id AND vendor.vendor_id = 75071;
```

Screenshot:

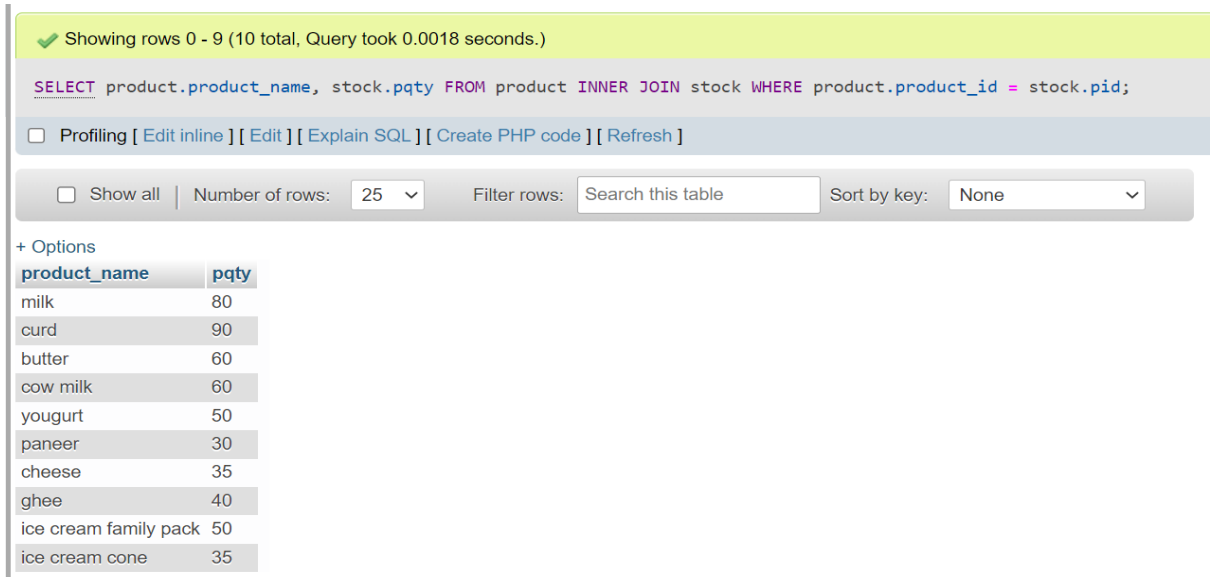


d. List quantity of all products in stock along with product details.

Query:

```
SELECT product.product_name, stock.pqty FROM product INNER JOIN stock WHERE product.product_id = stock.pid;
```

Screenshot:



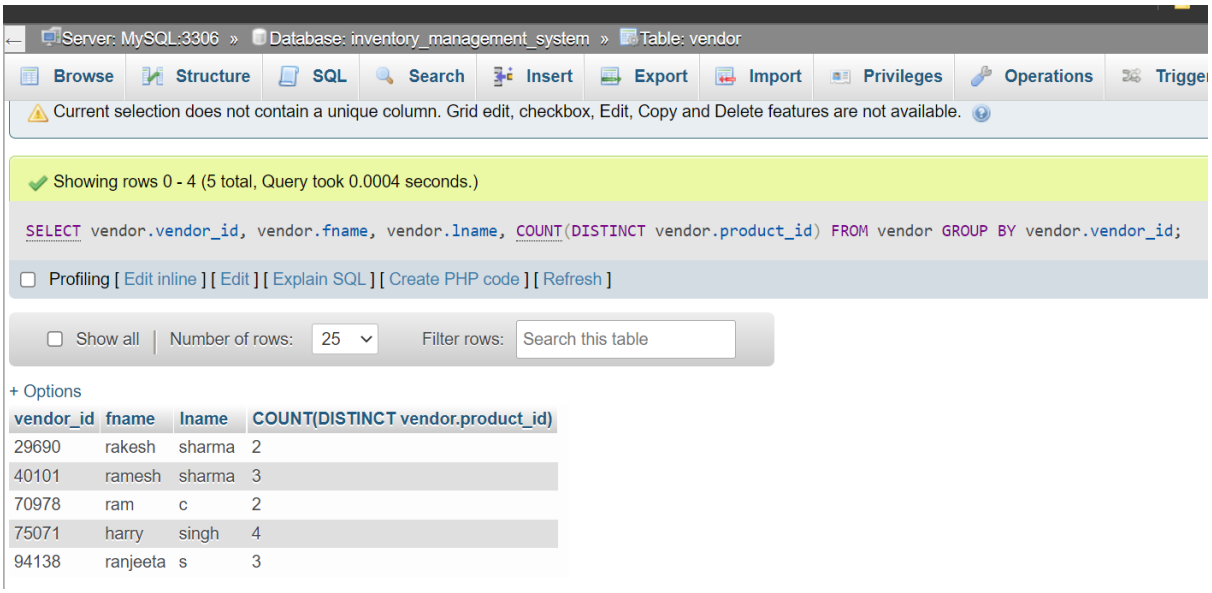
7. Aggregate Functions:

a. The total number of products each vendor sold.

Query:

```
SELECT vendor.vendor_id, vendor.fname, vendor.lname, COUNT(DISTINCT vendor.product_id) FROM vendor GROUP BY vendor.vendor_id;
```

Screenshot:

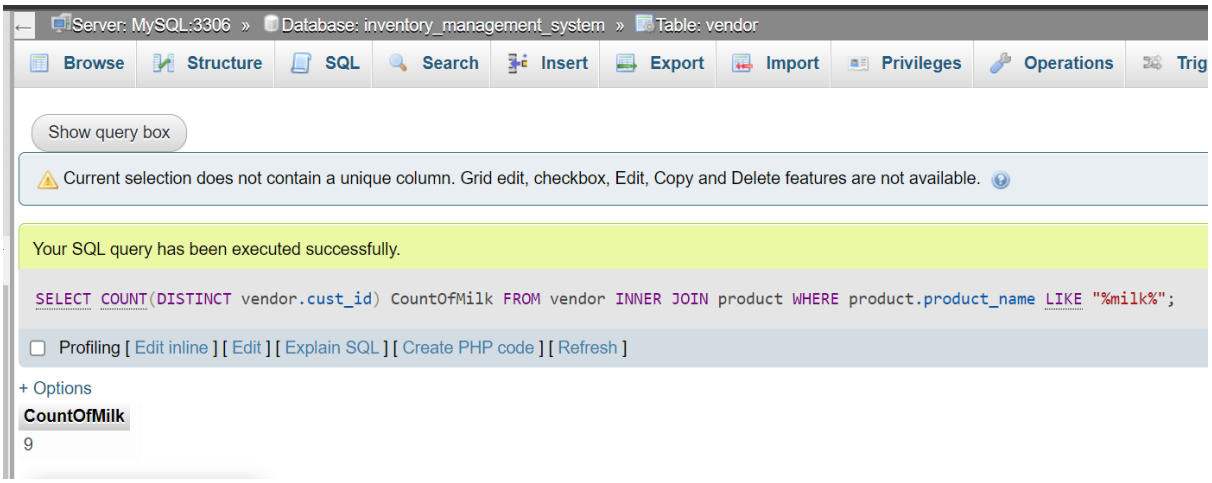


b. The number of customers who bought milk.

Query:

```
SELECT COUNT(DISTINCT vendor.cust_id) CountOfMilk FROM vendor INNER JOIN product WHERE product.product_name LIKE "%milk%";
```

Screenshot:

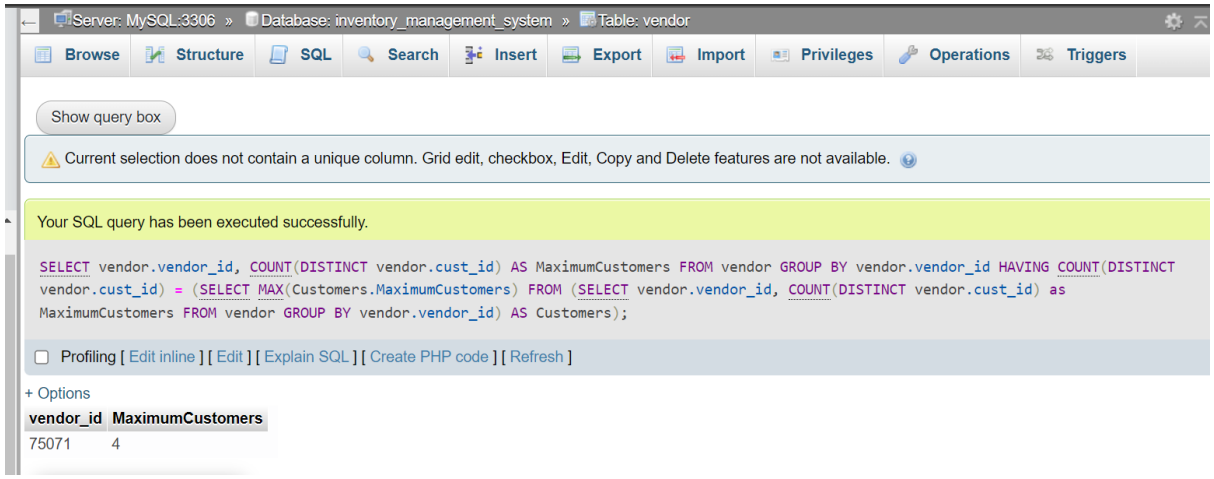


c. The vendor who sells to maximum number of customers.

Query:

```
SELECT vendor.vendor_id, COUNT(DISTINCT vendor.cust_id) AS
MaximumCustomers FROM vendor GROUP BY vendor.vendor_id HAVING
COUNT(DISTINCT vendor.cust_id) = (SELECT
MAX(Customers.MaximumCustomers) FROM (SELECT vendor.vendor_id,
COUNT(DISTINCT vendor.cust_id) as MaximumCustomers FROM vendor
GROUP BY vendor.vendor_id) AS Customers);
```

Screenshot:

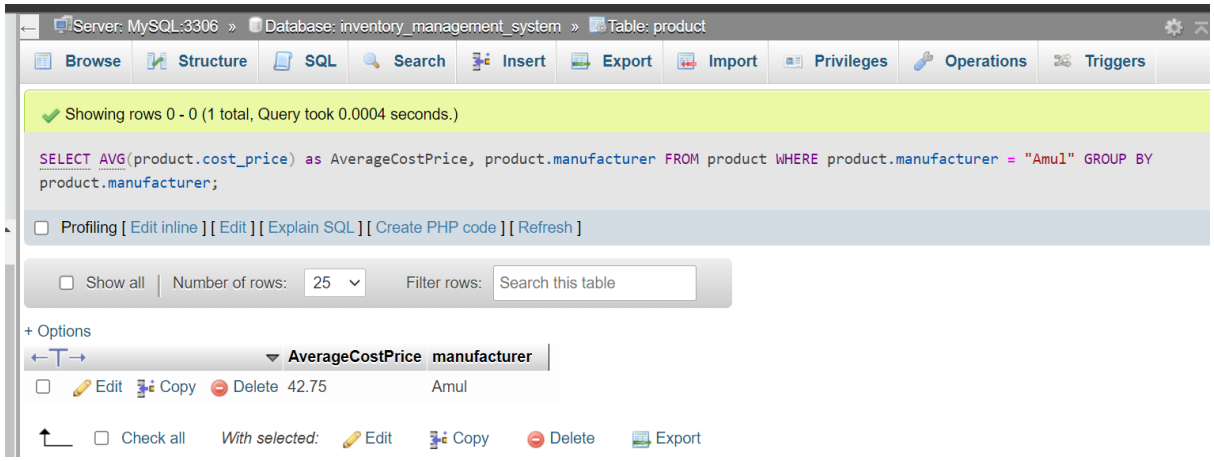


d. Average cost price of all Amul products.

Query:

```
SELECT AVG(product.cost_price) AS AverageCostPrice,
product.manufacturer FROM product WHERE product.manufacturer =
“Amul” GROUP BY product.manufacturer;
```

Screenshot:



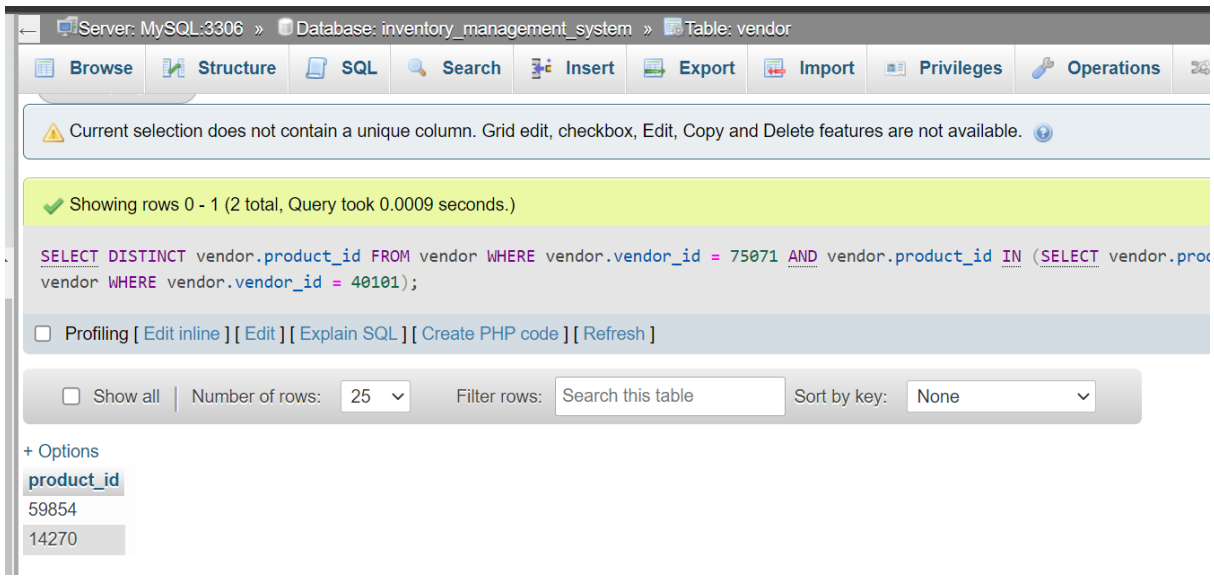
8. Set Operations:

a. Common products sold by vendor 75071 and 40101.

Query:

```
SELECT DISTINCT vendor.product_id FROM vendor WHERE
vendor.vendor_id = 75071 AND vendor.product_id IN (SELECT
vendor.product_id FROM vendor WHERE vendor.vendor_id = 40101);
```

Screenshot:

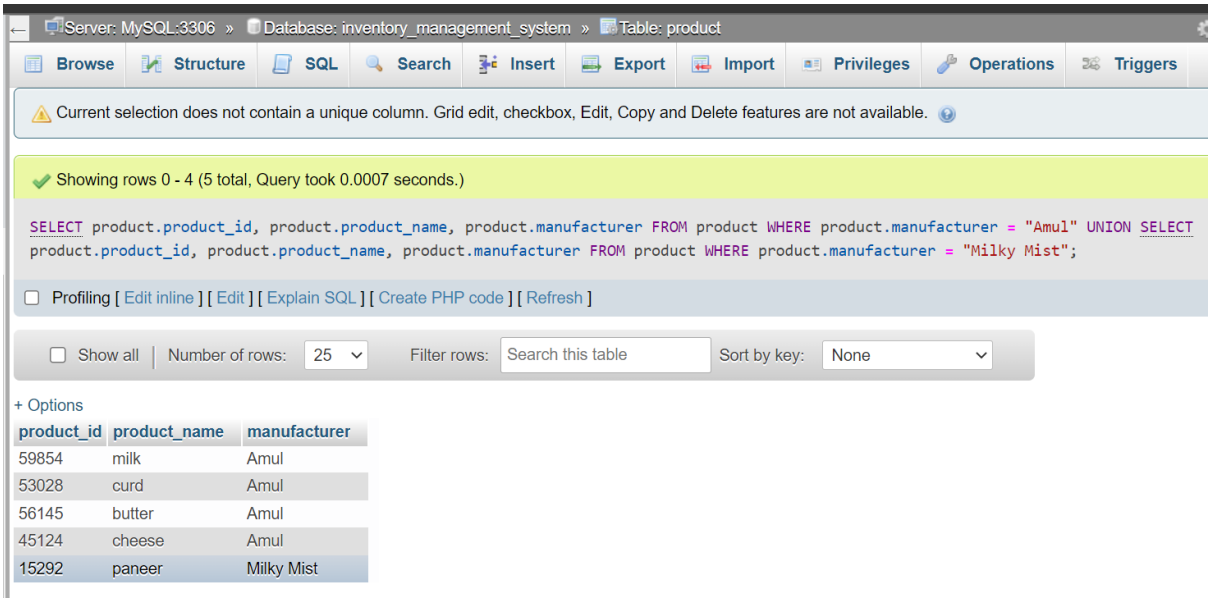


b. Products sold by Amul or Milky Mist.

Query:

```
SELECT product.product_id, product.product_name,
product.manufacturer FROM product WHERE product.manufacturer =
"Amul" UNION SELECT product.product_id, product.product_name,
product.manufacturer FROM product WHERE product.manufacturer =
"Milky Mist";
```

Screenshot:

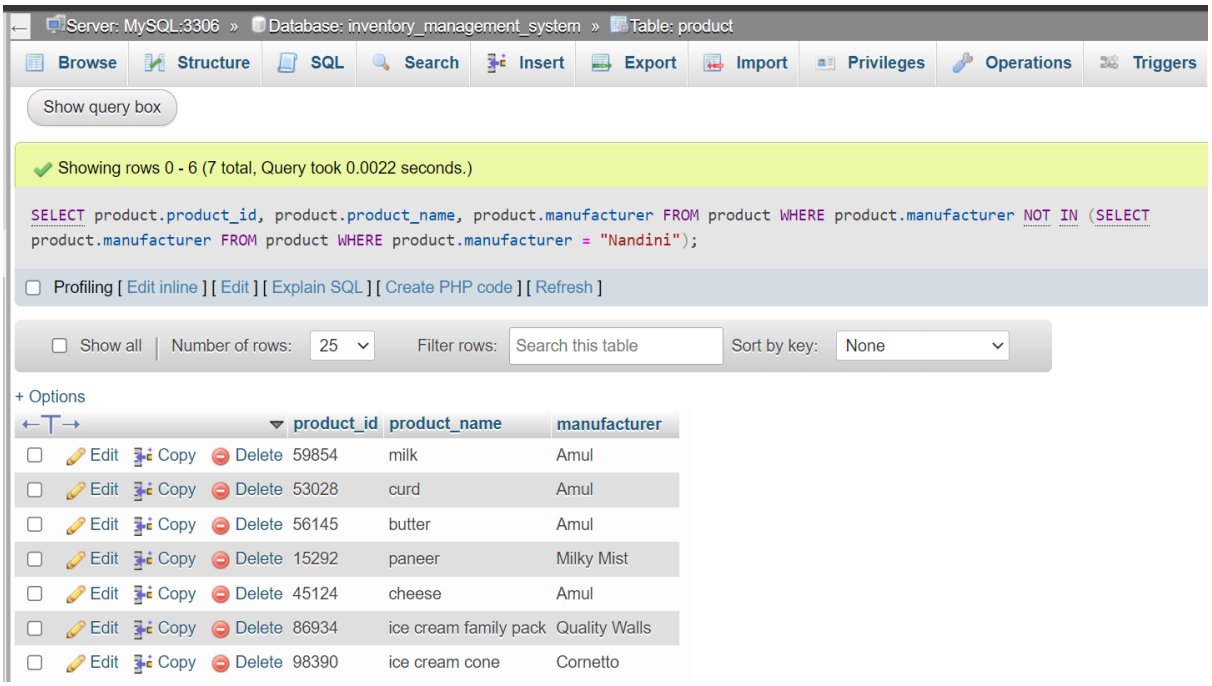


c. Products not sold by Nandini.

Query:

```
SELECT product.product_id, product.product_name,
product.manufacturer FROM product WHERE product.manufacturer NOT IN
(SELECT product.manufacturer FROM product WHERE
product.manufacturer = "Nandini");
```

Screenshot:

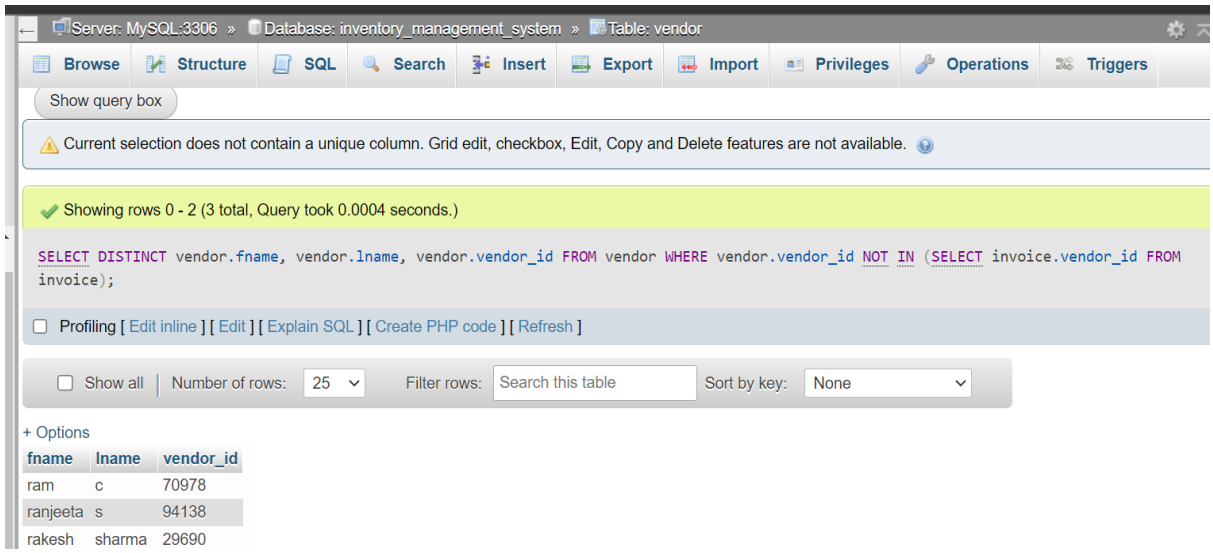


d. Vendors who don't have any sold products in invoice.

Query:

```
SELECT DISTINCT vendor.fname, vendor.lname, vendor.vendor_id FROM
vendor WHERE vendor.vendor_id NOT IN (SELECT invoice.vendor_id FROM
invoice);
```

Screenshot:



9. Functions and Procedures:

a. Function which shows which stocks need to be re-filled ie if the stock quantity is less than 50

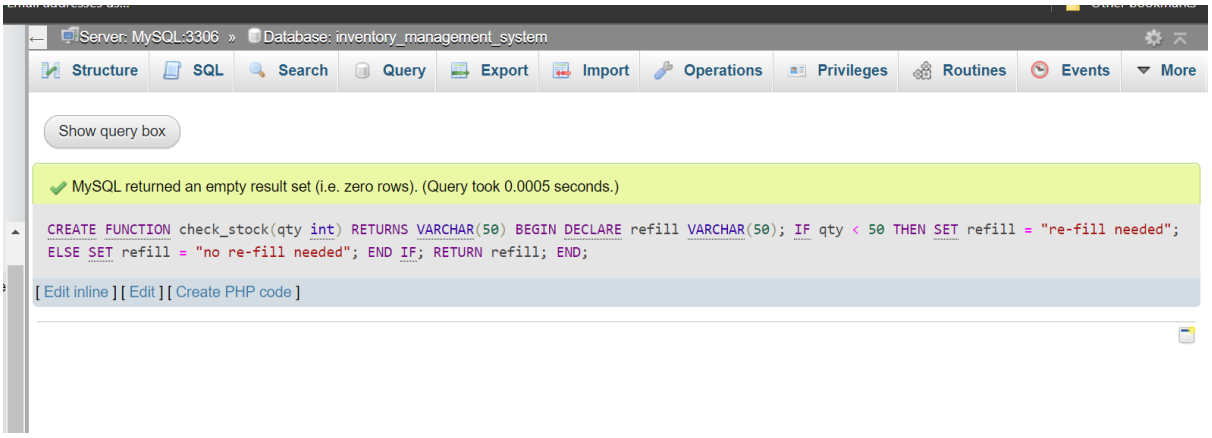
Function creation:

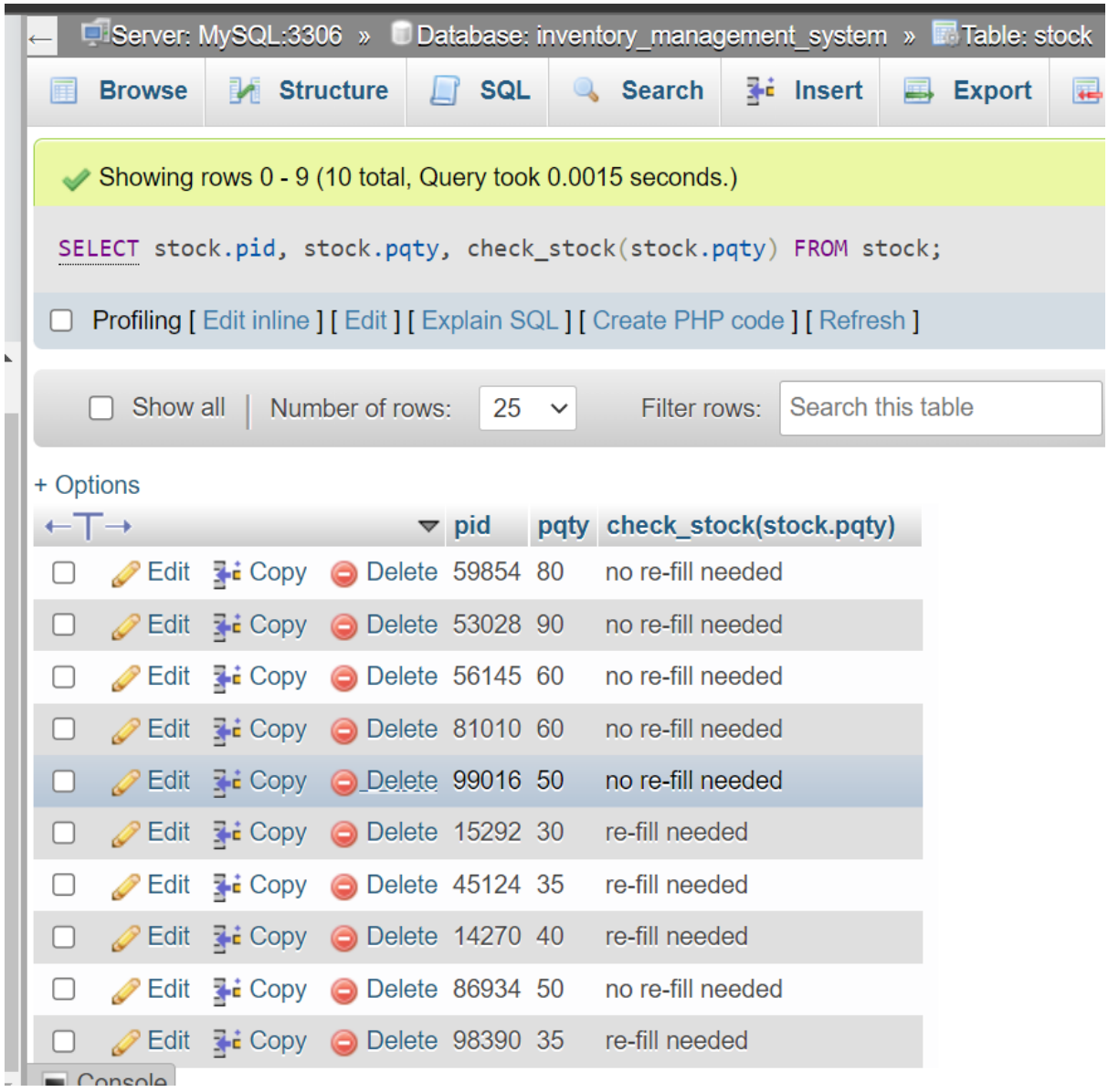
```
DELIMITER $
CREATE FUNCTION check_stock(qty int)
RETURNS VARCHAR(50)
BEGIN
     DECLARE refill VARCHAR(50);
IF qty < 50 THEN
     SET refill = "re-fill needed";
ELSE
     SET refill = "no re-fill needed";
     END IF;
     RETURN refill;
END $
DELIMITER ;
```

Function call:

```
SELECT stock.pid, stock.pqty, check_stock(stock.pqty) FROM stock;
```

Screenshots:





b. Procedure to update the product quantity to given value and purchase date to current date if the quantity is less than 50.

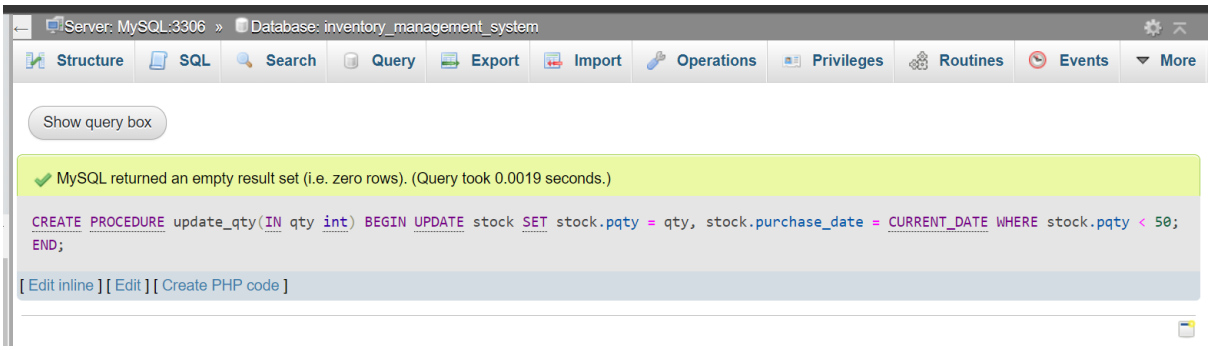
Procedure creation:

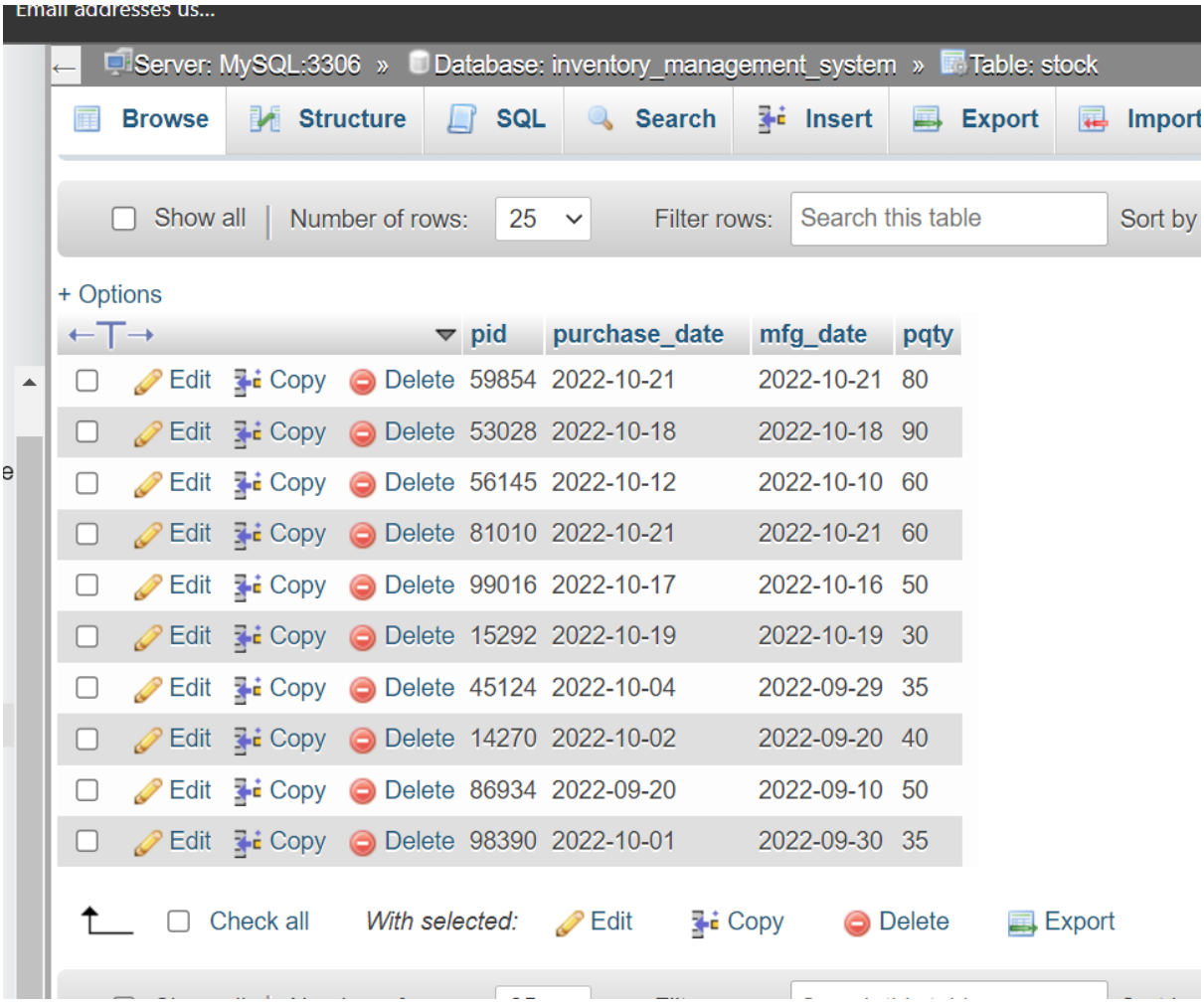
```
DELIMITER $

CREATE PROCEDURE update_qty(IN qty int)

BEGIN

     UPDATE stock SET stock.pqty = qty, stock.purchase_date = CURRENT_DATE WHERE stock.pqty < 50;

END $

DELIMITER ;
```

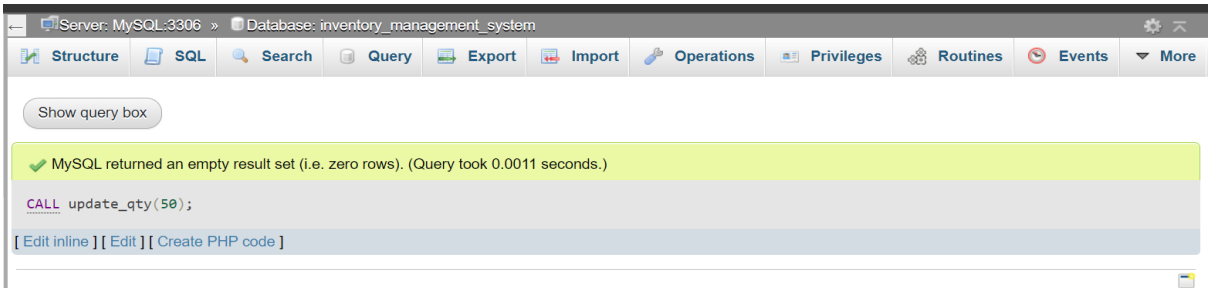
Procedure call:

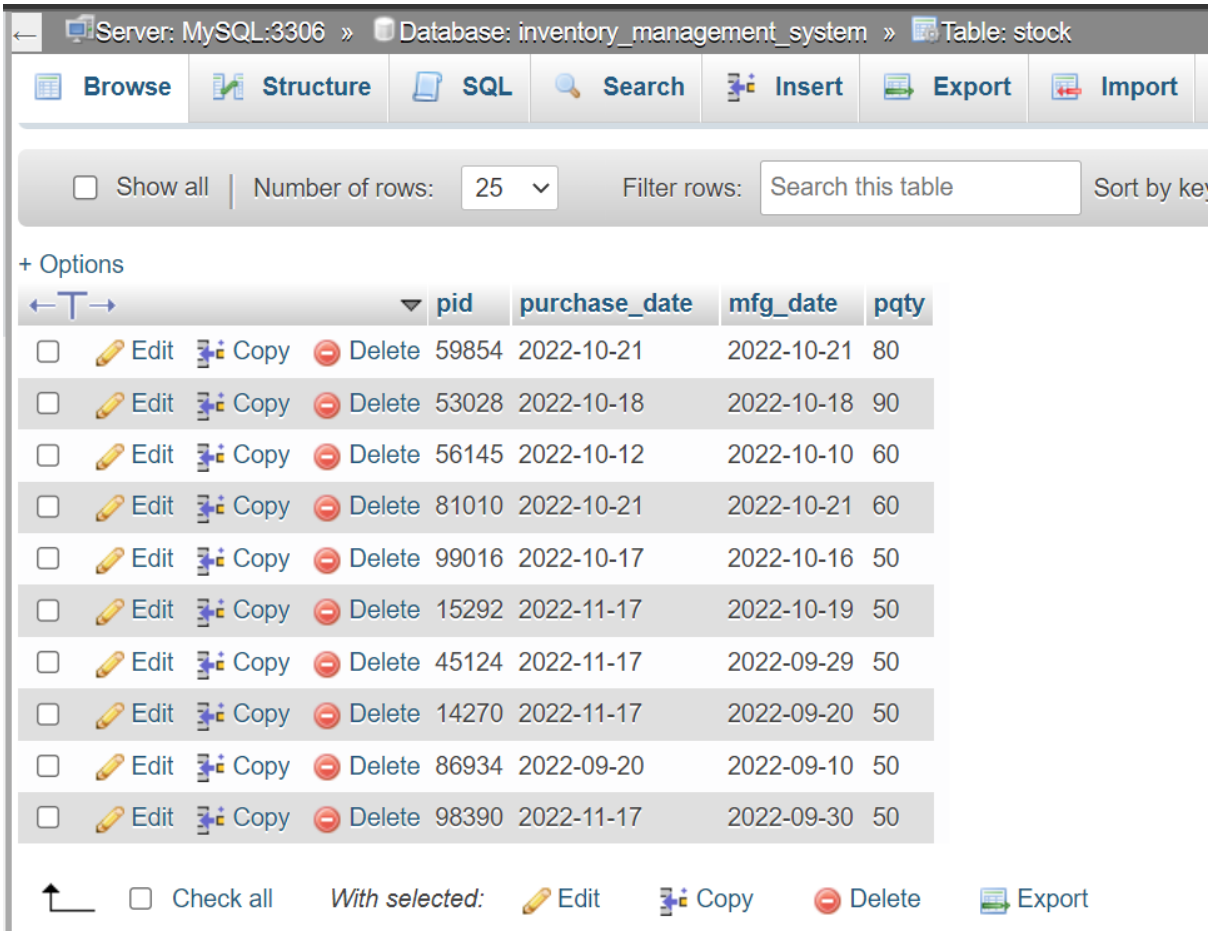
```
CALL update_qty(50);
```

Screenshots:








Server: MySQL:3306 » Database: inventory_management_system » Table: stock
Browse
Structure
SQL
Search
Insert
Export
Import
Show all
Number of rows: 25
Filter rows: Search this table
Sort by key
+ Options
pid purchase_date mfg_date pqty
Edit Copy Delete 59854 2022-10-21 2022-10-21 80
Edit Copy Delete 53028 2022-10-18 2022-10-18 90
Edit Copy Delete 56145 2022-10-12 2022-10-10 60
Edit Copy Delete 81010 2022-10-21 2022-10-21 60
Edit Copy Delete 99016 2022-10-17 2022-10-16 50
Edit Copy Delete 15292 2022-11-17 2022-10-19 50
Edit Copy Delete 45124 2022-11-17 2022-09-29 50
Edit Copy Delete 14270 2022-11-17 2022-09-20 50
Edit Copy Delete 86934 2022-09-20 2022-09-10 50
Edit Copy Delete 98390 2022-11-17 2022-09-30 50
Check all
With selected:
Edit
Copy
Delete
Export

10. Triggers and Cursors:

a. If manufacturing or purchase date is greater than the current date and manufacturing date should be less than purchase date then show an error.

Trigger creation:

```
DELIMITER $

CREATE TRIGGER on_insert_stock

BEFORE INSERT

ON stock FOR EACH ROW

BEGIN

     DECLARE err_msg1 varchar(100);

    DECLARE err_msg2 varchar(100);

    DECLARE err_msg3 varchar(100);

    SET err_msg1 = "Mfg/Purchase Date must be before the current
date";

    SET err_msg2 = "Mfg Date should be before Purchase Date";

    SET err_msg3 = "Product quantity should be minimum 50";

    IF (new.purchase_date > CURRENT_DATE OR new.mfg_date >
CURRENT_DATE) THEN

     SIGNAL SQLSTATE '45000'

          SET MESSAGE_TEXT = err_msg1;

     ELSEIF  new.mfg_date > new.purchase_date THEN

     SIGNAL SQLSTATE '45000'

          SET MESSAGE_TEXT = err_msg2;

     ELSEIF new.pqty < 50 THEN

     SIGNAL SQLSTATE '45000'

          SET MESSAGE_TEXT = err_msg3;

     END IF;

END $

DELIMITER ;
```

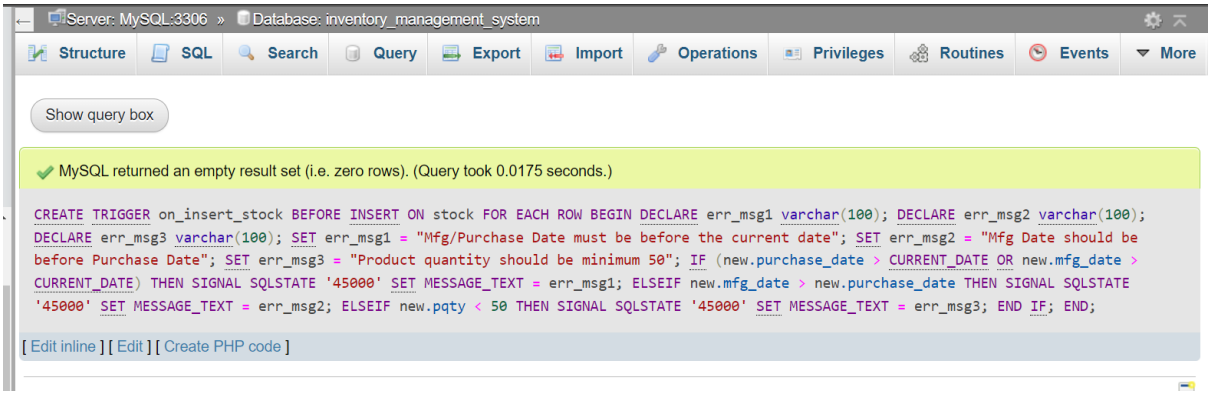
Incorrect insert:

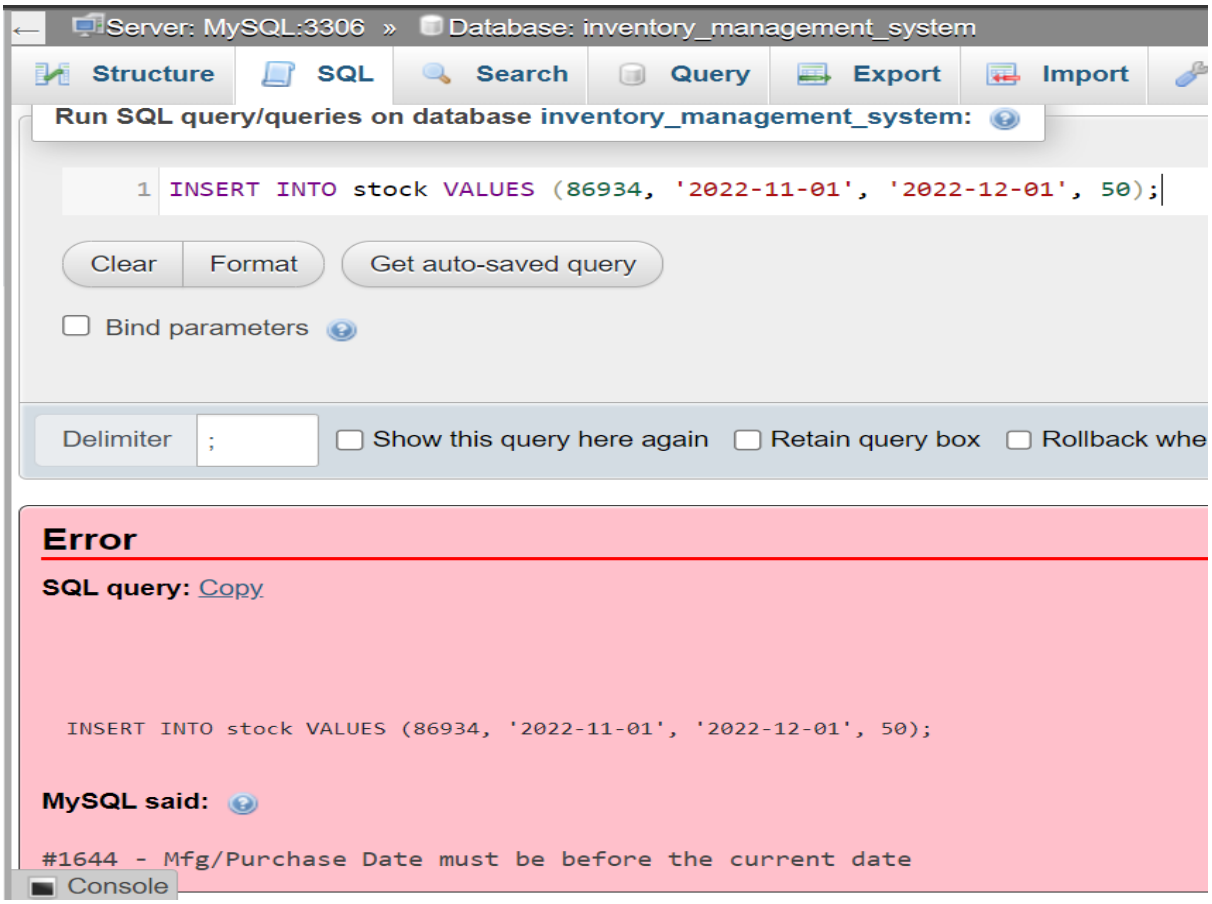
```
INSERT INTO stock VALUES (86934, '2022-11-01', '2022-12-01', 50);
INSERT INTO stock VALUES (86934, '2022-12-11', '2022-12-01', 50);
INSERT INTO stock VALUES (86934, '2022-10-01', '2022-11-01', 50);
INSERT INTO stock VALUES (86934, '2022-11-10', '2022-11-01', 5);
```

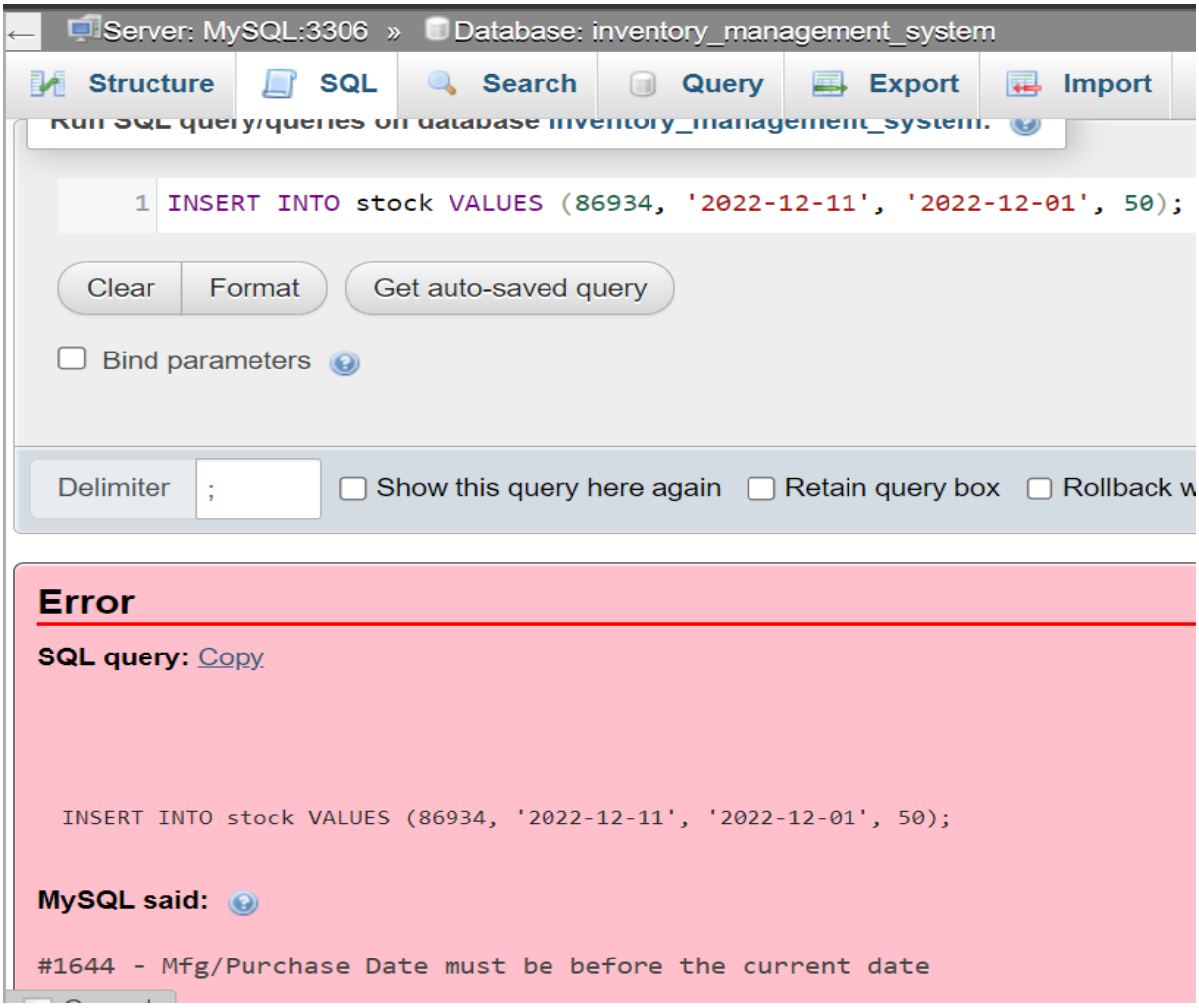
Correct insert:

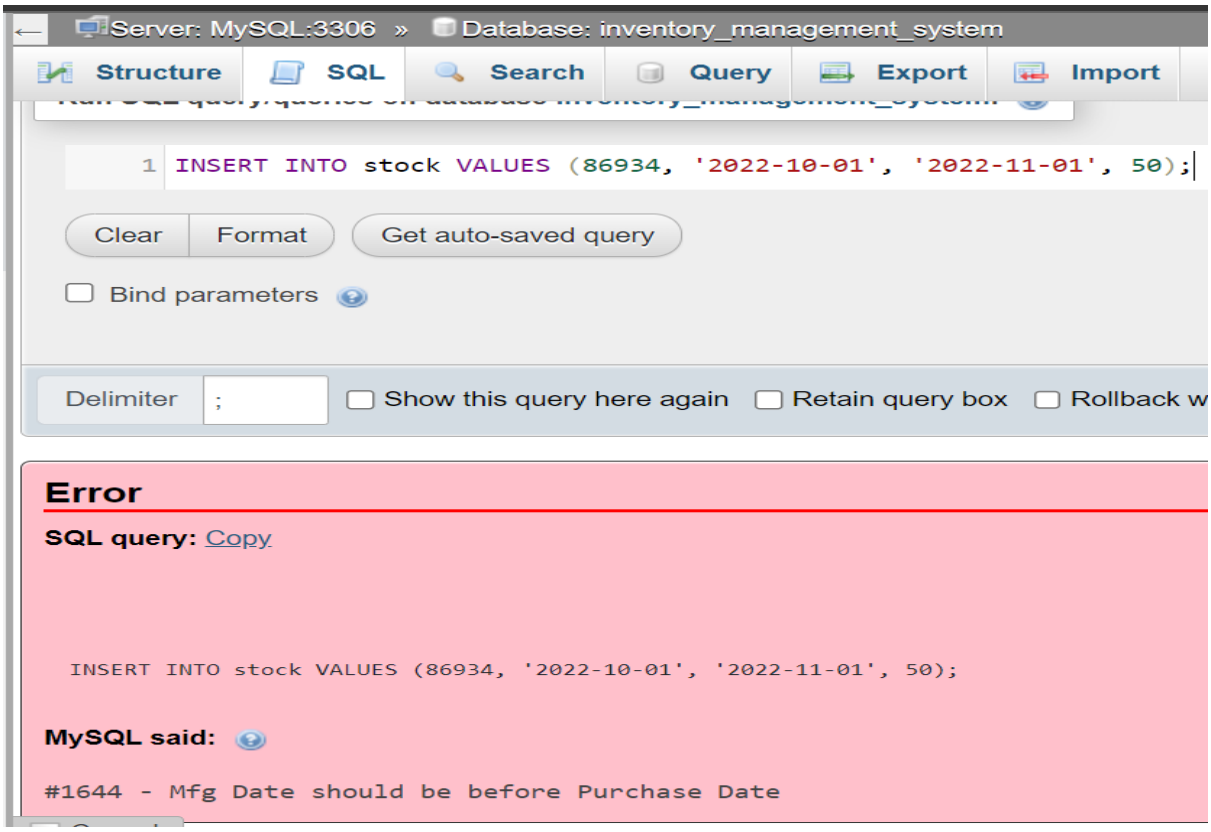
```
INSERT INTO stock VALUES (86934, '2022-11-01', '2022-11-10', 50);
```

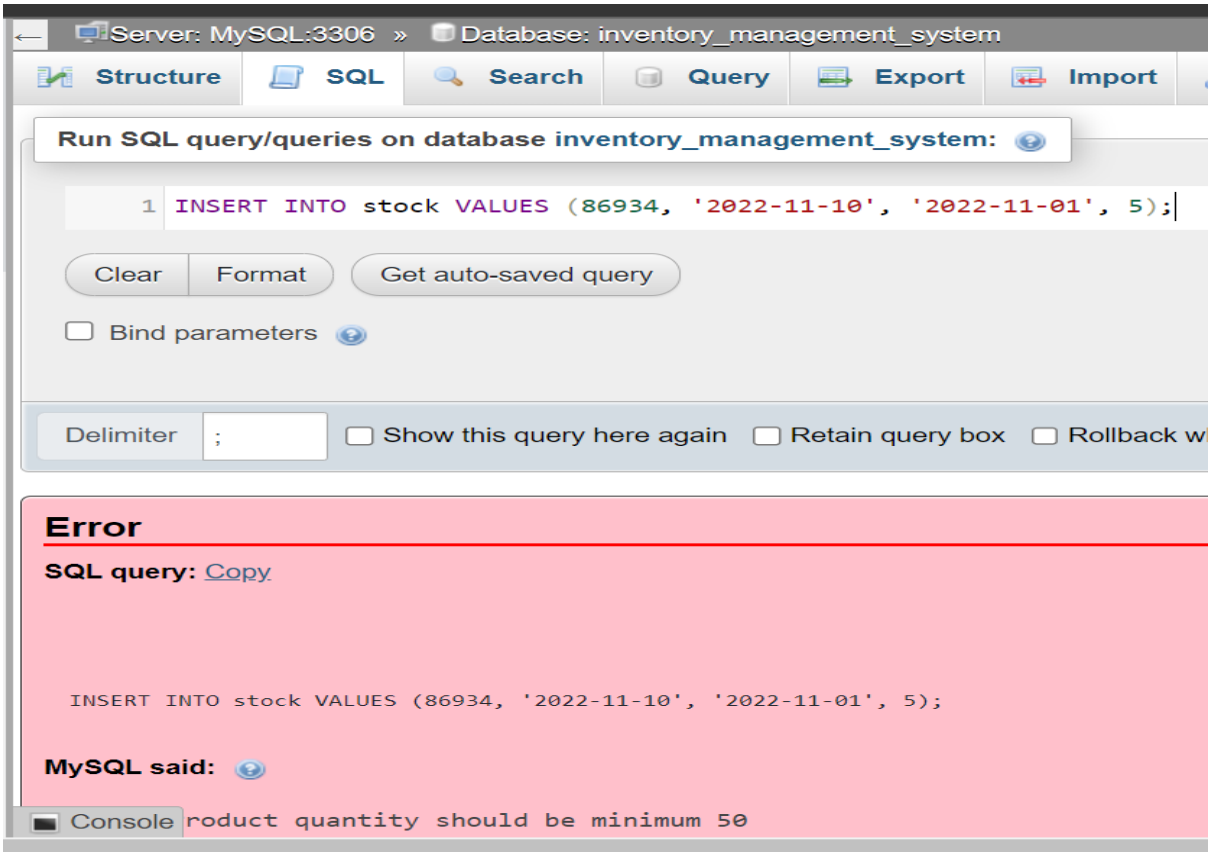
Screenshots:






Server: MySQL:3306 » Database: inventory_management_system
Structure
SQL
Search
Query
Export
Import
1 INSERT INTO stock VALUES (86934, '2022-12-11', '2022-12-01', 50);
Clear
Format
Get auto-saved query
Bind parameters
Delimiter ;
Show this query here again
Retain query box
Rollback w
Error
SQL query: Copy
INSERT INTO stock VALUES (86934, '2022-12-11', '2022-12-01', 50);
MySQL said:
#1644 - Mfg/Purchase Date must be before the current date


Server: MySQL:3306 » Database: inventory_management_system
Structure
SQL
Search
Query
Export
Import
1 INSERT INTO stock VALUES (86934, '2022-10-01', '2022-11-01', 50);
Clear
Format
Get auto-saved query
Bind parameters
Delimiter ;
Show this query here again
Retain query box
Rollback w
Error
SQL query: Copy
INSERT INTO stock VALUES (86934, '2022-10-01', '2022-11-01', 50);
MySQL said:
#1644 - Mfg Date should be before Purchase Date



b. Procedure with a Cursor to delete entries in vendor table with NULL values for product and customer that have at least one entry in the invoice table.

Procedure creation:

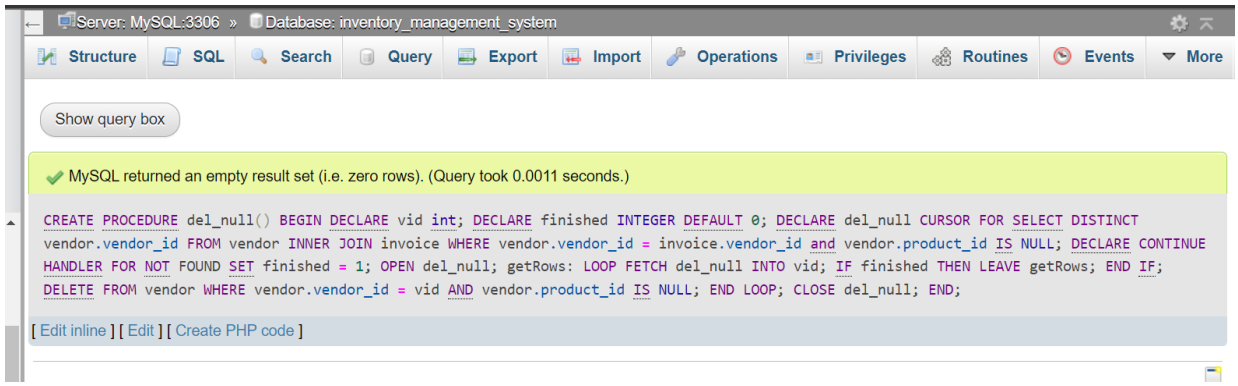
```
DELIMITER $
CREATE PROCEDURE del_null()
BEGIN
     DECLARE vid int;
     DECLARE finished INTEGER DEFAULT 0;
     DECLARE del_null CURSOR FOR
          SELECT DISTINCT vendor.vendor_id FROM vendor INNER JOIN
invoice WHERE vendor.vendor_id = invoice.vendor_id and
vendor.product_id IS NULL;

     DECLARE CONTINUE HANDLER
     FOR NOT FOUND SET finished = 1;
```

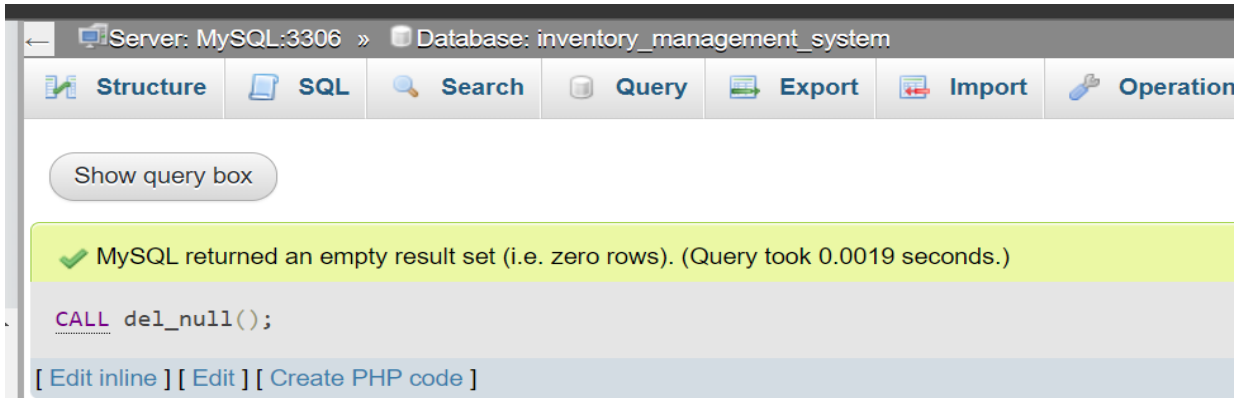
```
      OPEN del_null;
            getRows: LOOP
                  FETCH del_null INTO vid;
                  IF finished THEN
                        LEAVE getRows;
                  END IF;
                  DELETE FROM vendor WHERE vendor.vendor_id = vid AND
vendor.product_id IS NULL;
            END LOOP;
      CLOSE del_null;
END $
DELIMITER ;
```

Procedure Call:

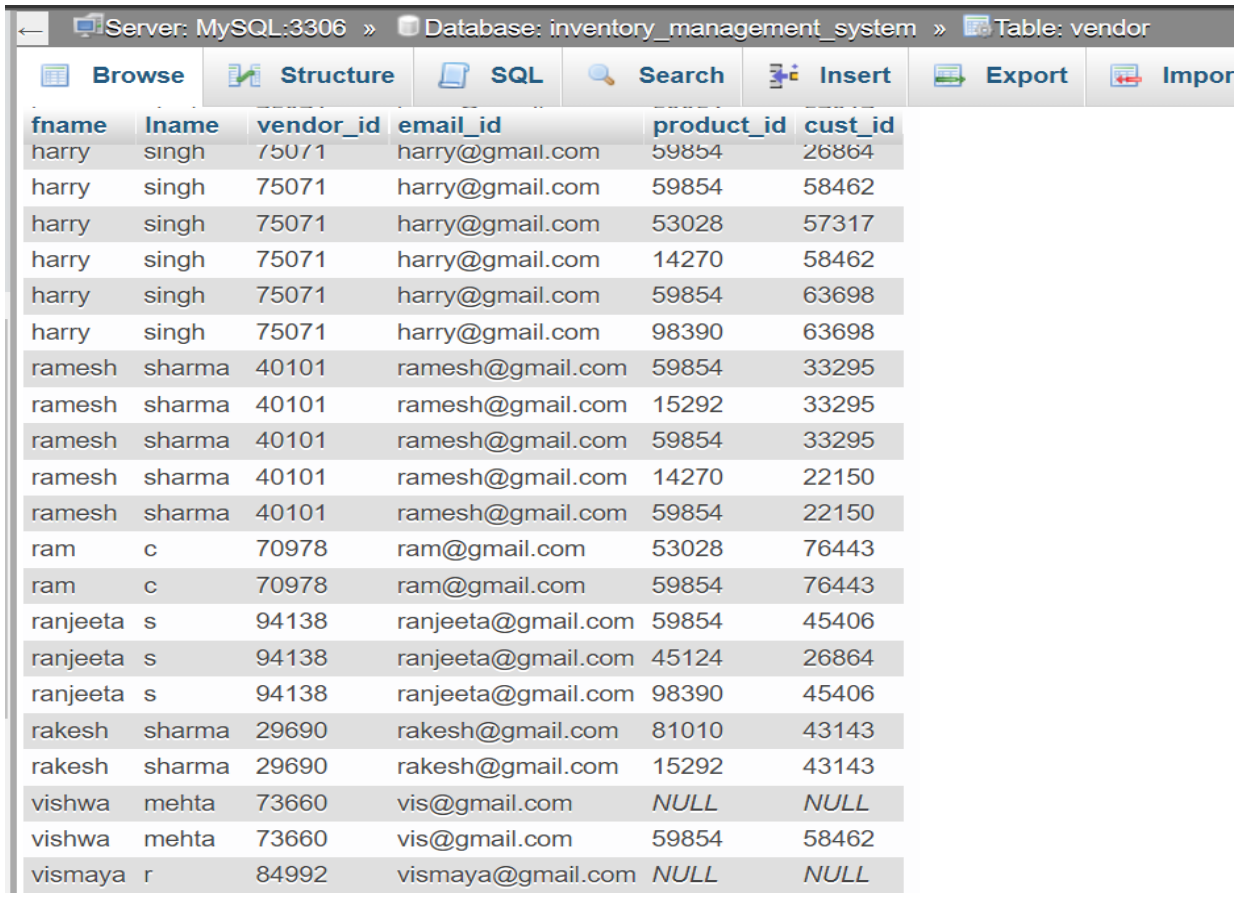
```
CALL del_null();
```

Screenshots:



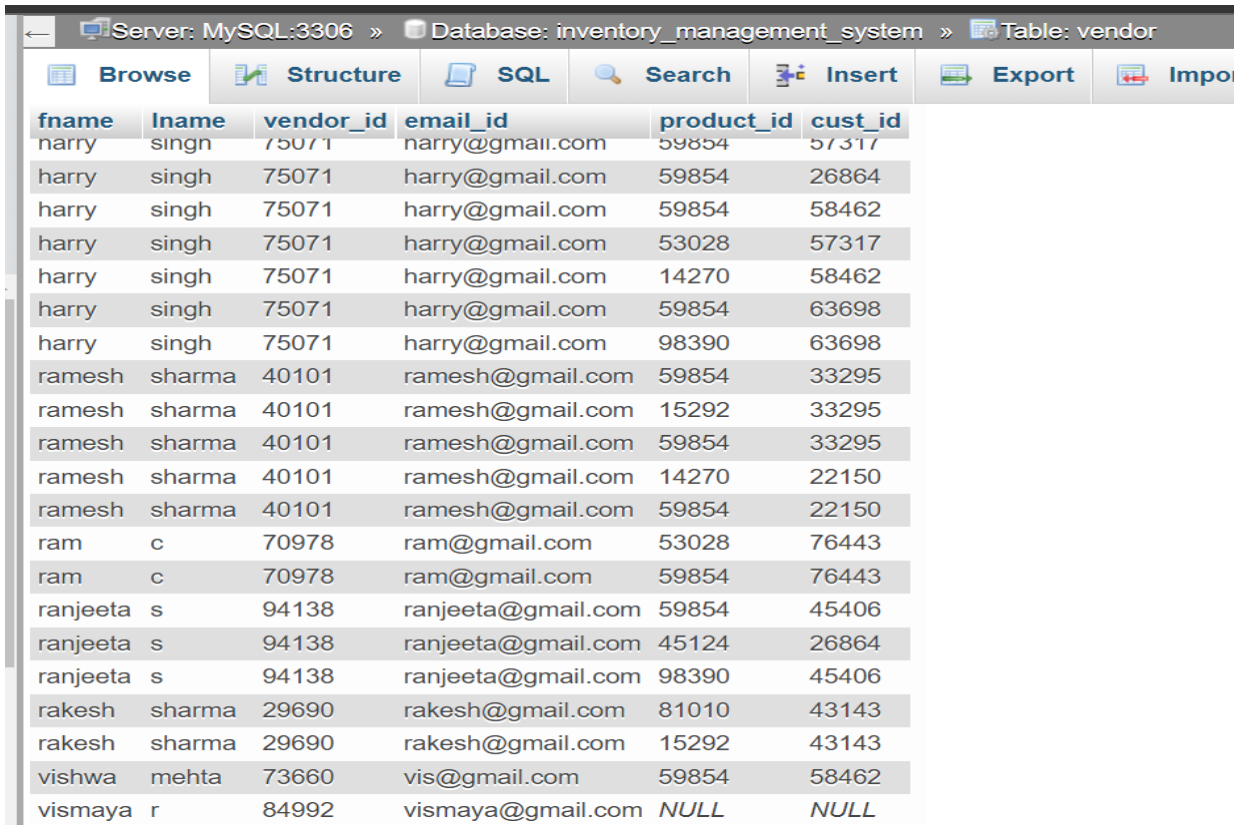


Before procedure call:



fname	lname	vendor_id	email_id	product_id	cust_id
harry	singh	75071	harry@gmail.com	59854	26864
harry	singh	75071	harry@gmail.com	59854	58462
harry	singh	75071	harry@gmail.com	53028	57317
harry	singh	75071	harry@gmail.com	14270	58462
harry	singh	75071	harry@gmail.com	59854	63698
harry	singh	75071	harry@gmail.com	98390	63698
ramesh	sharma	40101	ramesh@gmail.com	59854	33295
ramesh	sharma	40101	ramesh@gmail.com	15292	33295
ramesh	sharma	40101	ramesh@gmail.com	59854	33295
ramesh	sharma	40101	ramesh@gmail.com	14270	22150
ramesh	sharma	40101	ramesh@gmail.com	59854	22150
ram	c	70978	ram@gmail.com	53028	76443
ram	c	70978	ram@gmail.com	59854	76443
ranjeeta	s	94138	ranjeeta@gmail.com	59854	45406
ranjeeta	s	94138	ranjeeta@gmail.com	45124	26864
ranjeeta	s	94138	ranjeeta@gmail.com	98390	45406
rakesh	sharma	29690	rakesh@gmail.com	81010	43143
rakesh	sharma	29690	rakesh@gmail.com	15292	43143
vishwa	mehta	73660	vis@gmail.com	*NULL*	*NULL*
vishwa	mehta	73660	vis@gmail.com	59854	58462
vismaya	r	84992	vismaya@gmail.com	*NULL*	*NULL*

After procedure call:



fname	lname	vendor_id	email_id	product_id	cust_id
harry	singh	75071	harry@gmail.com	59854	26864
harry	singh	75071	harry@gmail.com	59854	58462
harry	singh	75071	harry@gmail.com	53028	57317
harry	singh	75071	harry@gmail.com	14270	58462
harry	singh	75071	harry@gmail.com	59854	63698
harry	singh	75071	harry@gmail.com	98390	63698
ramesh	sharma	40101	ramesh@gmail.com	59854	33295
ramesh	sharma	40101	ramesh@gmail.com	15292	33295
ramesh	sharma	40101	ramesh@gmail.com	59854	33295
ramesh	sharma	40101	ramesh@gmail.com	14270	22150
ramesh	sharma	40101	ramesh@gmail.com	59854	22150
ram	c	70978	ram@gmail.com	53028	76443
ram	c	70978	ram@gmail.com	59854	76443
ranjeeta	s	94138	ranjeeta@gmail.com	59854	45406
ranjeeta	s	94138	ranjeeta@gmail.com	45124	26864
ranjeeta	s	94138	ranjeeta@gmail.com	98390	45406
rakesh	sharma	29690	rakesh@gmail.com	81010	43143
rakesh	sharma	29690	rakesh@gmail.com	15292	43143
vishwa	mehta	73660	vis@gmail.com	59854	58462
vismaya	r	84992	vismaya@gmail.com	*NULL*	*NULL*

11. Developing a Frontend

1. app.py

```
import streamlit as st
from database import check_login, add_login

def main():
    st.title("Inventory Management System")
    col1, col2 = st.columns(2)
    with col1:
        st.subheader("Login")
        email0 = st.text_input("Email: ")
        password0 = st.text_input("Password: ", type = "password")
        if st.button("Login"):
            check_login(email0, password0)
    with col2:
        st.subheader("SignUp:")
        fname = st.text_input("First Name:")
        lname = st.text_input("Last Name")
        email = st.text_input("Email:")
        password = st.text_input("Password:", type = "password")
        if st.button("Signup"):
            add_login(fname, lname, email, password)

if __name__ == '__main__':
    main()
```

2. database.py

```
import streamlit as st
import mysql.connector
import random
```

```
mydb = mysql.connector.connect(
    host = "localhost",
    user = "root",
    password = "",
    database = "inventory_management_system"
)
c = mydb.cursor()

from reload import reload
def check_login(email, password):
    # print(email)
    values = email
    c.execute("SELECT * FROM login WHERE email_id = %s", (values,))
    passws = c.fetchall()
    for passw in passws:
        if passw[1] == password:
            reload("home")
            break
        else:
            st.error("Incorrect credentials, please try again.")

def add_login(fn, ln, email, password):
    values = email
    c.execute("SELECT * FROM login WHERE email_id = %s", (values,))
    x = c.fetchall()
    if x != []:
        print(x)
        st.error("User already exists :/")
    else:
```

```
        c.execute("INSERT INTO login (email_id, pass) VALUES
(%s,%s)", (email, password))

        vid = random.randint(10000, 99999)

        c.execute("INSERT INTO vendor (fname, lname, vendor_id,
email_id) VALUES (%s, %s, %s, %s) ", (fn, ln, vid, email))

        st.success("Successfully Added User")

    # else:

    #     st.error("User already exists :/")



def update_password(mail, old_pass, new_pass):

    c.execute("UPDATE login SET pass = %s WHERE email_id = %s AND
pass = %s", (new_pass, mail, old_pass))

    if c.rowcount is not None:

        st.success("Password updated successfully!")


def view_stock():

    c.execute("SELECT * FROM stock")

    data = c.fetchall()

    return data


def add_stock(pid, pdate, mdate, qty):

    c.execute("INSERT INTO stock VALUES (%s, %s, %s, %s)", (pid,
pdate, mdate, qty))

    st.success("Values inserted")


def prod_not_in_stock():

    c.execute("SELECT product.product_id FROM product WHERE
product.product_id NOT IN (SELECT stock.pid FROM stock)")

    data = c.fetchall()

    return data


def prod_in_stock():
```

```
    c.execute("SELECT product.product_id FROM product WHERE
product.product_id IN (SELECT stock.pid FROM stock)")
    data = c.fetchall()
    return data


def get_product(pid):
    c.execute("SELECT * FROM product WHERE product.product_id =
{}".format(pid))
    data = c.fetchall()
    print(data)
    return data


def get_stock(pid):
    c.execute("SELECT * FROM stock WHERE stock.pid =
{}".format(pid))
    data = c.fetchall()
    print(data)
    return data


def update_stock(pid, pdate, mdate, qty):
    c.execute("UPDATE stock SET purchase_date = %s, mfg_date = %s,
pqty = %s WHERE pid = %s", (pdate, mdate, qty, pid))
    st.success("Stock updated successfully")


def remove_stock(pid):
    c.execute("DELETE FROM stock WHERE stock.pid = {}".format(pid))
    st.success("Product Deleted successfully")


def view_product():
    c.execute("SELECT * FROM product")
    data = c.fetchall()
    return data
```

```
def add_product(pid, pname, cp, mfg, mrp):
    c.execute("INSERT INTO product VALUES (%s, %s, %s, %s, %s)",
(pid, pname, cp, mfg, mrp))
    st.success("Inserted Product")


def get_product_names():
    c.execute("SELECT product.product_name FROM product")
    data = c.fetchall()
    return data


def get_product_id(pname):
    value = pname
    c.execute("SELECT product.product_id FROM product WHERE
product_name = %s", (value,))
    data = c.fetchall()
    return data[0][0]


def get_prod_mrp(pid):
    value = pid
    c.execute("SELECT product.mrp FROM product WHERE
product.product_id = %s", (value,))
    data = c.fetchall()
    return data[0][0]


def update_prod_price(pid, cp):
    c.execute("UPDATE product SET product.cost_price = %s WHERE
product.product_id = %s", (cp, pid))
    st.success("Cost price updated")


def view_customer():
    c.execute("SELECT * FROM customer")
```

```
    data = c.fetchall()
    return data


def add_customer(cid, pn, mail, cname, sno, sname, pin):
    c.execute("INSERT INTO customer VALUES (%s, %s, %s, %s, %s, %s,
%s)", (cid, pn, mail, cname, sno, sname, pin))
    st.success("Inserted Customer")


def get_customer(cid):
    c.execute("SELECT * FROM customer WHERE customer.cust_id =
{}".format(cid))
    data = c.fetchall()
    print(data)
    return data


def get_cust_names():
    c.execute("SELECT customer.cust_name FROM customer")
    data = c.fetchall()
    return data


def get_cust_ids(cname):
    value = cname
    c.execute("SELECT customer.cust_id FROM customer WHERE
customer.cust_name = %s", (value,))
    data = c.fetchall()
    return data


def update_customer(cid, phno, email, cname, stno, stname, pin):
    c.execute("UPDATE customer SET phone_no = %s, cust_email_id =
%s, cust_name = %s, str_no = %s, str_name = %s, pincode = %s WHERE
cust_id = %s", (phno, email, cname, stno, stname, pin, cid))
    st.success("Successfully Updated Customer")
```

```
def view_invoice():
    c.execute("SELECT * FROM invoice")
    data = c.fetchall()
    return data


def get_vendor_id(mail):
    print(mail)
    c.execute("SELECT DISTINCT vendor.vendor_id FROM vendor WHERE
vendor.email_id = %s", (mail, ))
    data = c.fetchall()
    print("data", data[0][0])
    return data[0][0]


def add_invoice(pid, ino, idate, sp, pqty, dis, phno, vid):
    c.execute("INSERT INTO invoice VALUES (%s, %s, %s, %s, %s, %s,
%s, %s)", (pid, ino, idate, sp, pqty, dis, phno, vid))
    c.execute("SELECT customer.cust_id FROM customer WHERE
customer.phone_no = %s", (phno,))
    cid = c.fetchall()[0][0]
    c.execute("SELECT DISTINCT vendor.fname, vendor.lname,
vendor.vendor_id, vendor.email_id FROM vendor WHERE
vendor.vendor_id = %s", (vid,))
    d = c.fetchall()
    fn, ln, vid0, mail = d[0][0], d[0][1], d[0][2], d[0][3]
    c.execute("INSERT INTO vendor VALUES (%s, %s, %s, %s, %s, %s)",
(fn, ln, vid0, mail, pid, cid))
    st.success("Invoice inserted successfully")


def get_invoice(iid):
    c.execute("SELECT * FROM invoice WHERE invoice.invoice_no =
{}".format(iid))
    data = c.fetchall()
    return data
```

```
def get_phnos():
    c.execute("SELECT customer.phone_no FROM customer")
    data = c.fetchall()
    return data
```

3. home.py

```
import streamlit as st
from database import *
import pandas as pd
import random

st.title("Welcome to ListAll")
def main():
    menu = ["View Stock", "Add item to stock", "Update Stock",
"Remove Stock", "View Products", "Add Product", "Update Product
Price", "View Customers", "Add Customer", "Update Customer", "View
Invoice", "Add Invoice", "Change Password"]
    choice = st.sidebar.selectbox("Menu", menu)

    if choice == "View Stock":
        st.subheader("Current Stock:")
        data = view_stock()
        df = pd.DataFrame(data, columns = ['pid', 'purchase_date',
'mfg_date', 'pqty'])
        st.dataframe(df)

    elif choice == "Add item to stock":
        st.subheader("Add New Product to Current Stock:")
        list_of_products = [i[0] for i in prod_not_in_stock()]
        prod = st.selectbox("Products that can be added to stock",
list_of_products)
        result = get_product(prod)
```

```
        if result:
            pid = st.text_input("Product ID:", result[0][0])
            pname = st.text_input("Product Name:", result[0][1])
            pur_date = st.text_input("Purchase Date(YYYY-MM-DD):")
            mfg_date = st.text_input("Manufacturing Date(YYYY-MM-
DD):")
            qty = st.text_input("Product Quantity:")
            if st.button("Add"):
                add_stock(pid, pur_date, mfg_date, qty)
        with st.expander("View Updated table"):
            data = view_stock()
            df = pd.DataFrame(data, columns = ['pid',
'purchase_date', 'mfg_date', 'pqty'])
            st.dataframe(df)


    elif choice == "Update Stock":
        st.subheader("Update Stock:")
        list_of_products = [i[0] for i in prod_in_stock()]
        prod = st.selectbox("Products that can be updated in
stock", list_of_products)
        result = get_stock(prod)
        res = get_product(prod)
        # print(result[0])
        if result:
            # print(type(result[0][1]), type(result[0][2]))
            pid = result[0][0]
            pdate = result[0][1]
            mdate = result[0][2]
            pqty = result[0][3]
            col1, col2= st.columns(2)
            with col1:
```

```
                pid0 = st.text_input("Product ID:", pid, disabled =
True)
                new_pdate = st.text_input("Purchase Date(YYYY-MM-
DD):", pdate)
            with col2:
                pname = st.text_input("Product Name:", res[0][1],
disabled = True)
                new_mdate = st.text_input("Manufacturing Date(YYYY-
MM-DD):", mdate)
            new_pqty = st.text_input("Product Quantity:", pqty)
            if st.button("Update"):
                update_stock(pid0, new_pdate, new_mdate, new_pqty)
        with st.expander("View Updated table"):
            data = view_stock()
            df = pd.DataFrame(data, columns = ['pid',
'purchase_date', 'mfg_date', 'pqty'])
            st.dataframe(df)


    elif choice == "Remove Stock":
        st.subheader("Remove Stock:")
        list_of_products = [i[0] for i in prod_in_stock()]
        prod = st.selectbox("Products that can be added to stock",
list_of_products)
        result = get_product(prod)
        if result:
            pid = result[0][0]
            if st.button("Remove "+str(result[0][1])):
                remove_stock(pid)
        with st.expander("View Updated table"):
            data = view_stock()
            df = pd.DataFrame(data, columns = ['pid',
'purchase_date', 'mfg_date', 'pqty'])
            st.dataframe(df)
```

```
    elif choice == "View Products":
        st.subheader("Products:")
        data = view_product()
        df = pd.DataFrame(data, columns = ['product_id',
'product_name', 'cost_price', 'manufacturer', 'mrp'])
        st.dataframe(df)

    elif choice == "Add Product":
        st.subheader("Enter product details:")
        gen_pid = random.randint(10000, 99999)
        d = get_product(gen_pid)
        if not d:
            print(gen_pid)
            pid = st.text_input("Product ID:", gen_pid, disabled =
True)
        else:
            st.error("Please reload the page.")
        pname = st.text_input("Product Name:")
        cp = st.text_input("Cost Price:")
        mfg = st.text_input("Manufacturer Name:")
        mrp = st.text_input("MRP:")
        if st.button("Add"):
            add_product(pid, pname, cp, mfg, mrp)
        with st.expander("View Updated table"):
            data = view_product()
            df = pd.DataFrame(data, columns = ['product_id',
'product_name', 'cost_price', 'manufacturer', 'mrp'])
            st.dataframe(df)

    elif choice == "Update Product Price":
        st.subheader("Update Product:")
```

```
        list_of_products = [i[0] for i in get_product_names()]
        pname = st.selectbox("Product Name:", list_of_products)
        prod = get_product_id(pname)
        result = get_product(prod)
        # print(result[0])
        if result:
            # print(type(result[0][1]), type(result[0][2]))
            pid = result[0][0]
            pname = result[0][1]
            cp = result[0][2]
            mfg = result[0][3]
            mrp = result[0][4]
            col1, col2= st.columns(2)
            with col1:
                pid0 = st.text_input("Product ID:", pid, disabled =
True)
                pname0 = st.text_input("Name:", pname, disabled =
True)
                mrp0 = st.text_input("MRP:", mrp, disabled = True)
            with col2:
                new_cp = st.text_input("Cost Price:", cp)
                mfg0 = st.text_input("Manufacturer Name:", mfg,
disabled = True)
            if st.button("Update"):
                update_prod_price(pid0, new_cp)
            with st.expander("View Updated table"):
                data = view_product()
                df = pd.DataFrame(data, columns = ['product_id',
'product_name', 'cost_price', 'manufacturer', 'mrp'])
                st.dataframe(df)


    elif choice == "View Customers":
```

```
        st.subheader("Customers:")
        data = view_customer()
        df = pd.DataFrame(data, columns = ['cust_id', 'phone_no',
'cust_email_id', 'cust_name', 'str_no', 'str_name', 'pincode'])
        st.dataframe(df)

    elif choice == "Add Customer":
        st.subheader("Enter customer details:")
        gen_cid = random.randint(10000, 99999)
        d = get_customer(gen_cid)
        if not d:
            print(gen_cid)
            cid = st.text_input("Customer ID:", gen_cid, disabled =
True)
        else:
            st.error("Please reload the page.")
        cname = st.text_input("Customer Name:")
        pn = st.text_input("Phone Number:")
        mail = st.text_input("Email ID:")
        col1, col2, col3 = st.columns(3)
        with col1:
            sno = st.text_input("Street Number:")
        with col2:
            sname = st.text_input("Street Name:")
        with col3:
            pin = st.text_input("Pincode:")

        if st.button("Add"):
            add_customer(cid, pn, mail, cname, sno, sname, pin)

        with st.expander("View Updated table"):
```

```
            data = view_customer()
            df = pd.DataFrame(data, columns = ['cust_id',
'phone_no', 'cust_email_id', 'cust_name', 'str_no', 'str_name',
'pincode'])
            st.dataframe(df)


    elif choice == "Update Customer":
        st.subheader("Update Customer:")
        list_of_cnames = [i[0] for i in get_cust_names()]
        # print(list_of_cnames)
        cname = st.selectbox("Select customer to be updated",
list_of_cnames)
        # print(cname)
        cid = get_cust_ids(cname)
        # print(cid[0][0])
        result = get_customer(cid[0][0])
        # print(result[0])
        if result:
            cid = result[0][0]
            phno = result[0][1]
            email = result[0][2]
            cname = result[0][3]
            stno = result[0][4]
            stname = result[0][5]
            pin = result[0][6]
            cid0 = st.text_input("Customer ID:", cid, disabled =
True)
            new_phno = st.text_input("Phone Number", phno)
            new_email = st.text_input("Email ID:", email)
            new_cname = st.text_input("Name:", cname)
            new_stno = st.text_input("Street Number:", stno)
            new_stname = st.text_input("Street Name:", stname)
```

```
            new_pin = st.text_input("Pincode:", pin)
            if st.button("Update"):
                update_customer(cid0, new_phno, new_email,
new_cname, new_stno, new_stname, new_pin)
        with st.expander("View Updated table"):
            data = view_customer()
            df = pd.DataFrame(data, columns = ['cust_id',
'phone_no', 'cust_email_id', 'cust_name', 'str_no', 'str_name',
'pincode'])
            st.dataframe(df)


    elif choice == "View Invoice":
        st.subheader("Invoice:")
        data = view_invoice()
        df = pd.DataFrame(data, columns = ['prod_id', 'invoice_no',
'invoice_date', 'selling_price', 'prod_qty', 'discount',
'phone_no', 'vendor_id'])
        st.dataframe(df)


    elif choice == "Add Invoice":
        st.subheader("Add Invoice:")
        list_of_products = [i[1] for i in view_product()]
        prod = st.selectbox("Product Name:", list_of_products)
        pid = get_product_id(prod)
        gen_iid = random.randint(10000, 99999)
        d = get_invoice(gen_iid)
        if not d:
            print(gen_iid)
            iid = st.text_input("Invoice ID:", gen_iid, disabled =
True)
        else:
            st.error("Please reload the page.")
        idate = st.text_input("Invoice Date (YYYY-MM-DD):")
```

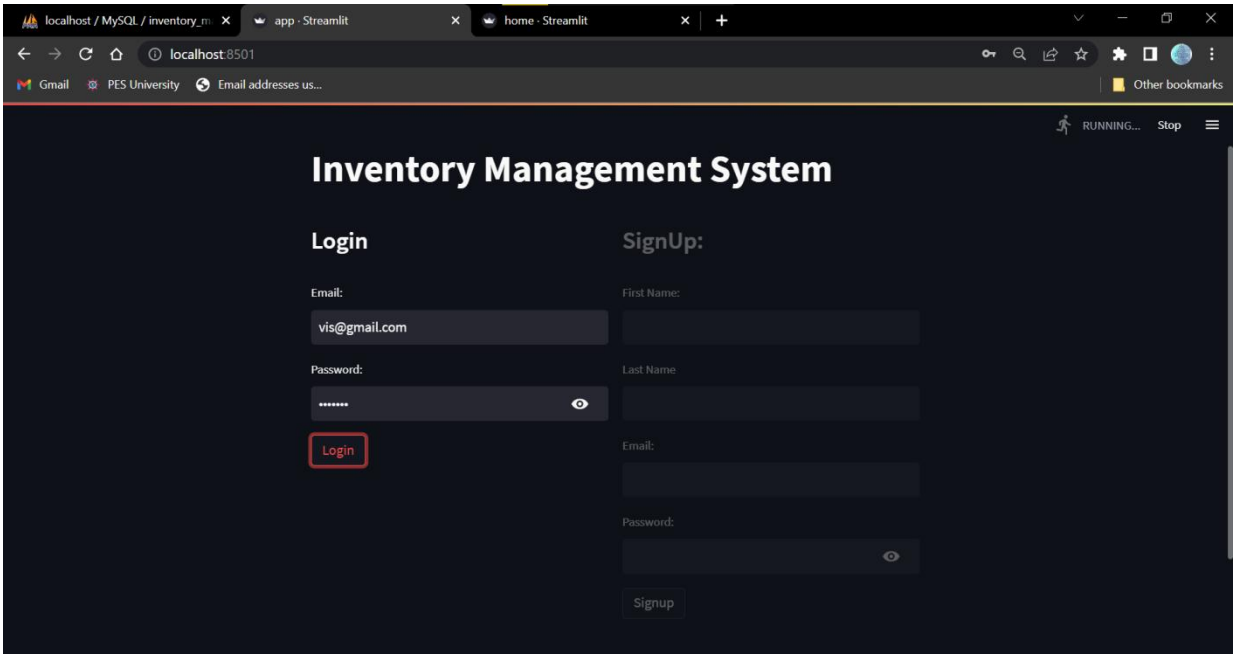
```
        dis = st.text_input("Discount Given(%):")
        mrp = get_prod_mrp(pid)
        if dis:
            dis = float(dis) * 0.01
            sp = mrp - (mrp * dis)
            sp0 = st.text_input("Selling Price:", sp, disabled =
True)
        pqty = st.text_input("Product Quantity:")
        list_of_phnos = [i[0] for i in get_phnos()]
        pno = st.selectbox("Customer Phone Number:", list_of_phnos)
        mail = st.text_input("Vendor Email ID:")
        # vid = 0
        if mail:
            vid = get_vendor_id(mail)
            # pass
        # phno = get_cus_phone(pno)
        if st.button("Add Invoice"):
            add_invoice(pid, iid, idate, sp0, pqty, dis, pno, vid)
        with st.expander("View Updated Invoice"):
            data = view_invoice()
            df = pd.DataFrame(data, columns = ['prod_id',
'invoice_no', 'invoice_date', 'selling_price', 'prod_qty',
'discount', 'phone_no', 'vendor_id'])
            st.dataframe(df)


    elif choice == "Change Password":
        st.subheader("Enter New Credentials Below:")
        email = st.text_input("Email:")
        old_pass = st.text_input("Old Password:", type =
"password")
        new_pass = st.text_input("New Password:", type =
"password")
        if st.button("Change Password"):
```

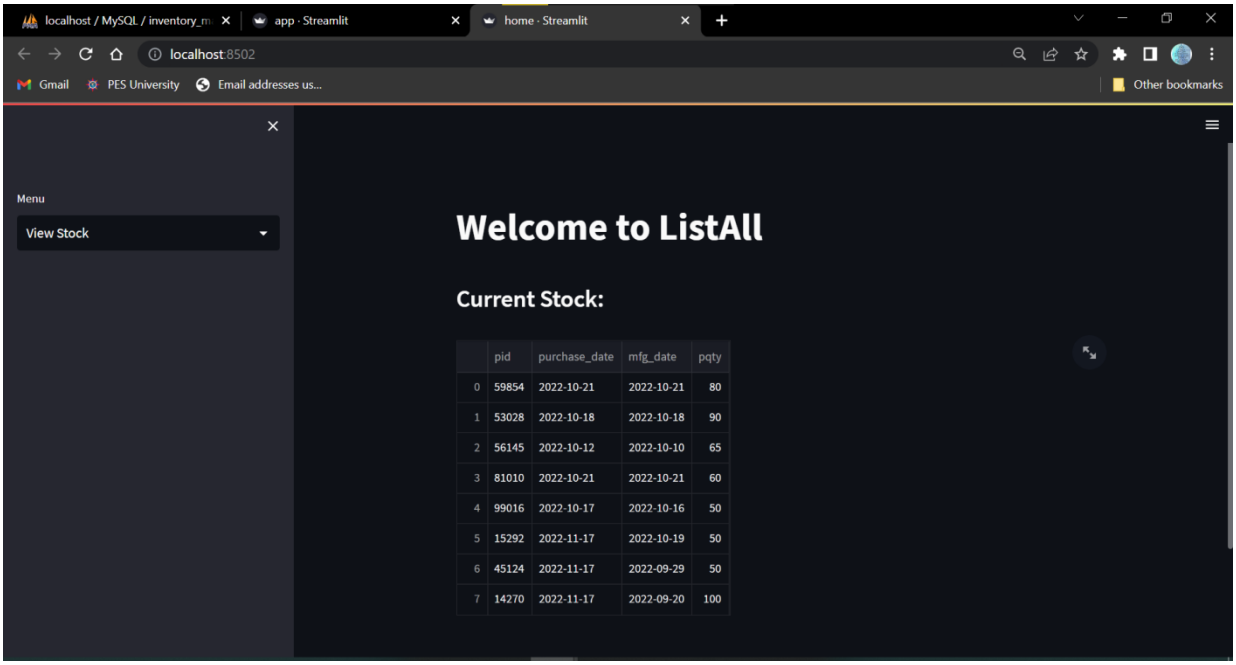
```
            update_password(email, old_pass, new_pass)

    else:
        st.subheader("Home Page")
if __name__ == '__main__':
    main()
```

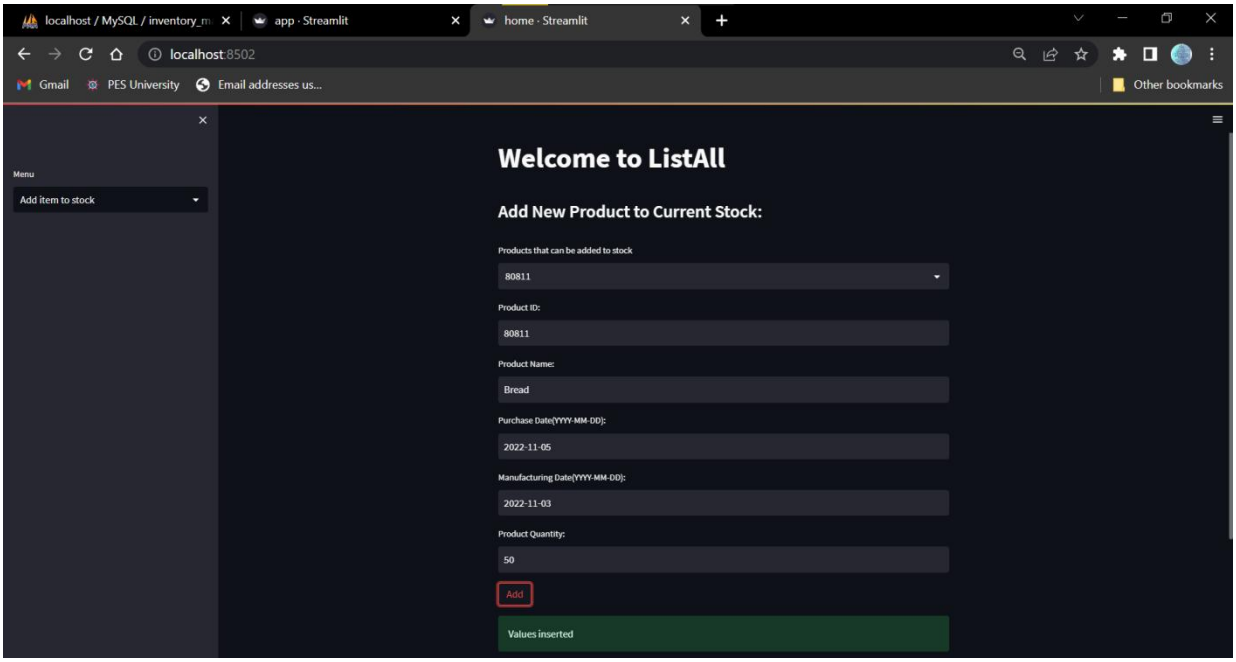
4. reload.py

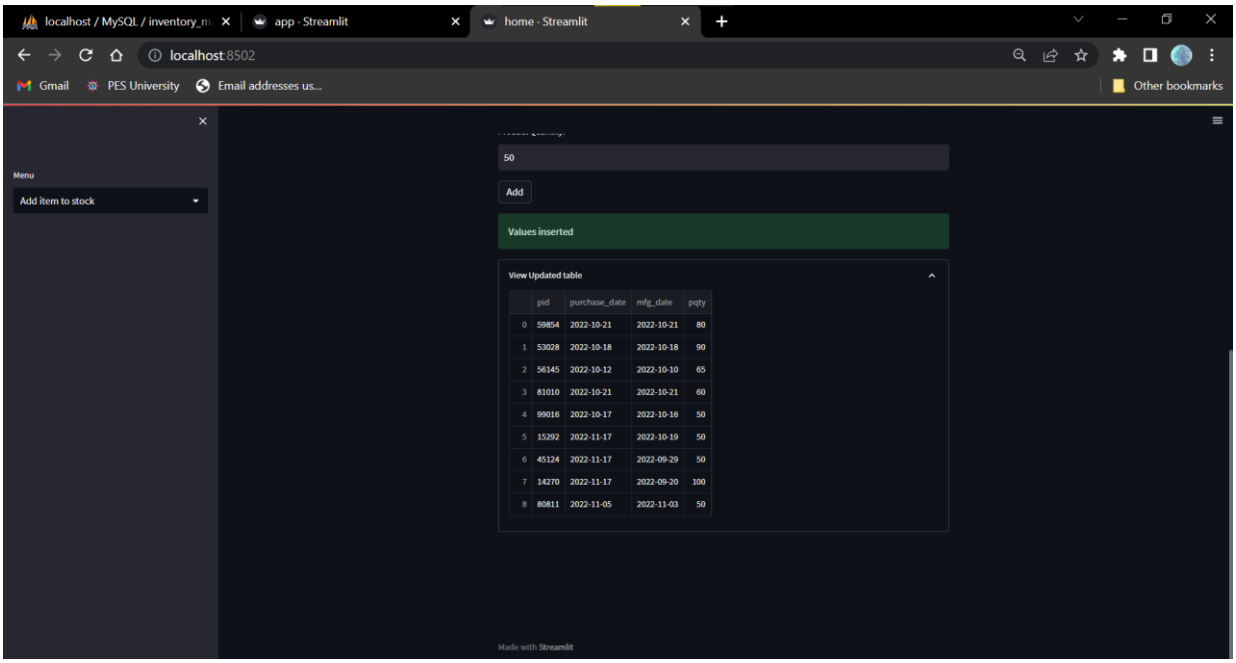
```
import streamlit as st
import os
import keyboard
import threading
import time
wait_second = 10
def threadFunc():
   time.sleep(wait_second)

def reload(page):
    th = threading.Thread(target=threadFunc)
    th.start()
    os.system(r"streamlit run " + page + ".py")
    th.join()
```

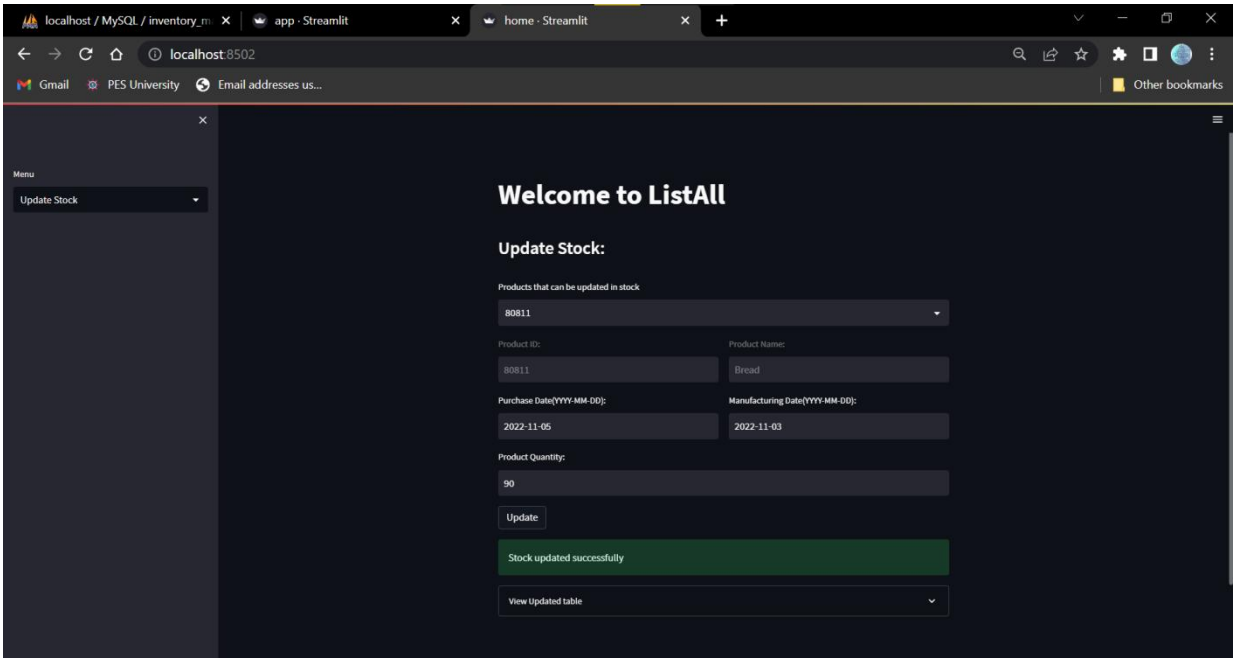
Screenshots:

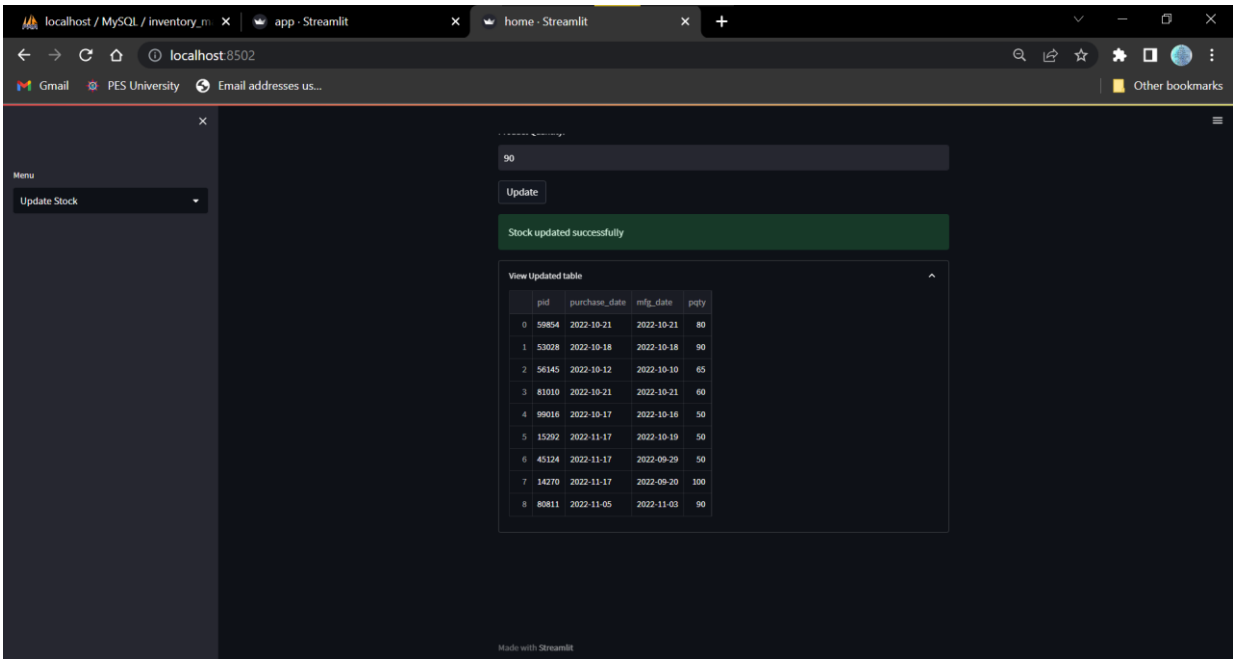

localhost / MySQL / inventory_m
app · Streamlit
home · Streamlit
localhost:8501
Gmail
PES University
Email addresses us...
Other bookmarks
RUNNING...
Stop
Inventory Management System
Login
Email:
vis@gmail.com
Password:
Login
SignUp:
First Name:
Last Name
Email:
Password:
Signup

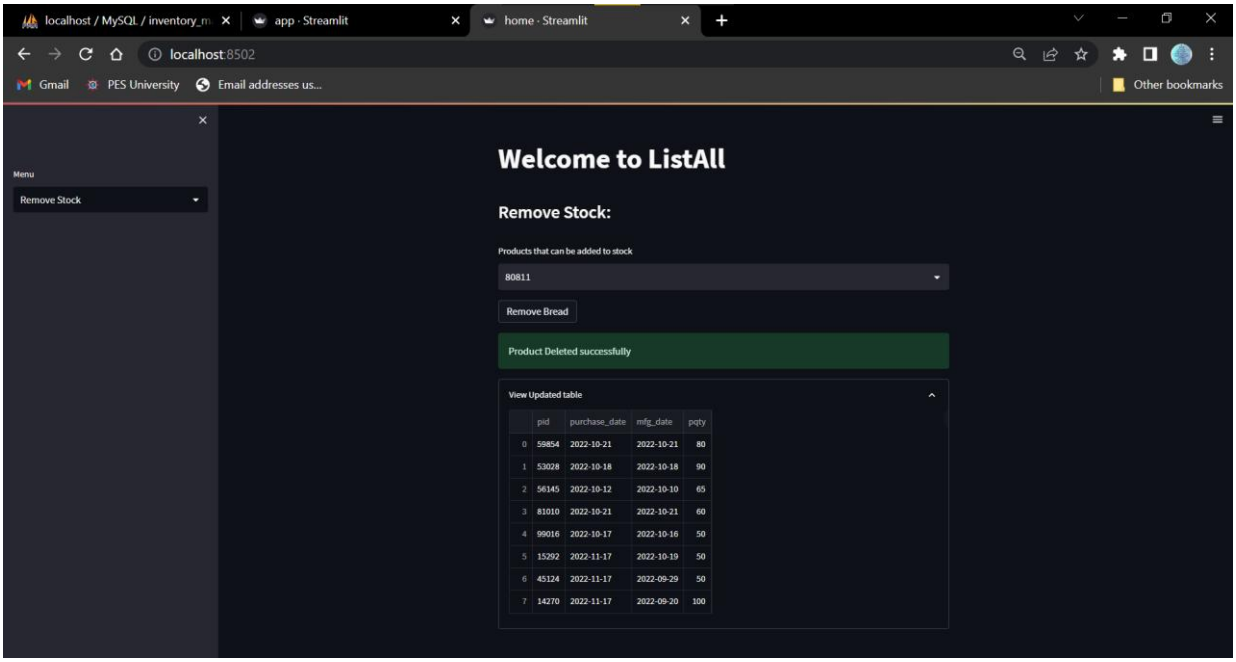

localhost / MySQL / inventory_m
app · Streamlit
home · Streamlit
localhost:8502
Gmail
PES University
Email addresses us...
Other bookmarks
Menu
View Stock
Welcome to ListAll
Current Stock:
pid purchase_date mfg_date pqty
0 59854 2022-10-21 2022-10-21 80
1 53028 2022-10-18 2022-10-18 90
2 56145 2022-10-12 2022-10-10 65
3 81010 2022-10-21 2022-10-21 60
4 99016 2022-10-17 2022-10-16 50
5 15292 2022-11-17 2022-10-19 50
6 45124 2022-11-17 2022-09-29 50
7 14270 2022-11-17 2022-09-20 100

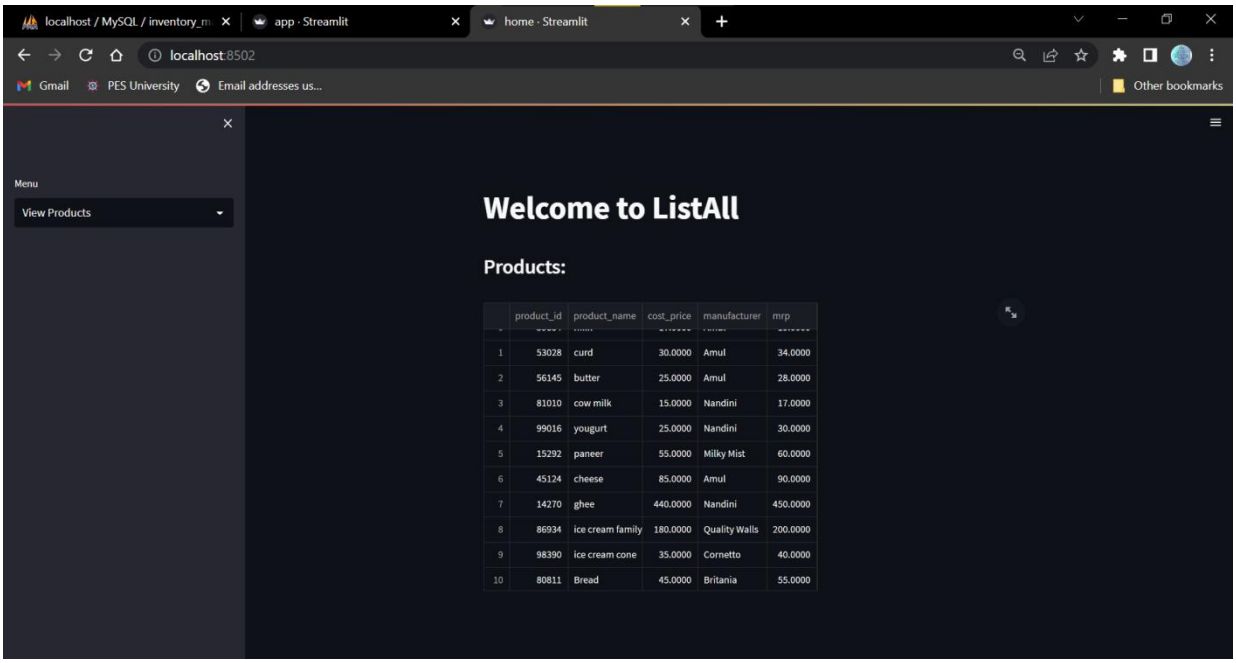

localhost / MySQL / inventory_m
app · Streamlit
home · Streamlit
localhost:8502
Gmail
PES University
Email addresses us...
Other bookmarks
Menu
Add item to stock
Welcome to ListAll
Add New Product to Current Stock:
Products that can be added to stock
80811
Product ID:
80811
Product Name:
Bread
Purchase Date(YYYY-MM-DD):
2022-11-05
Manufacturing Date(YYYY-MM-DD):
2022-11-03
Product Quantity:
50
Add
Values inserted

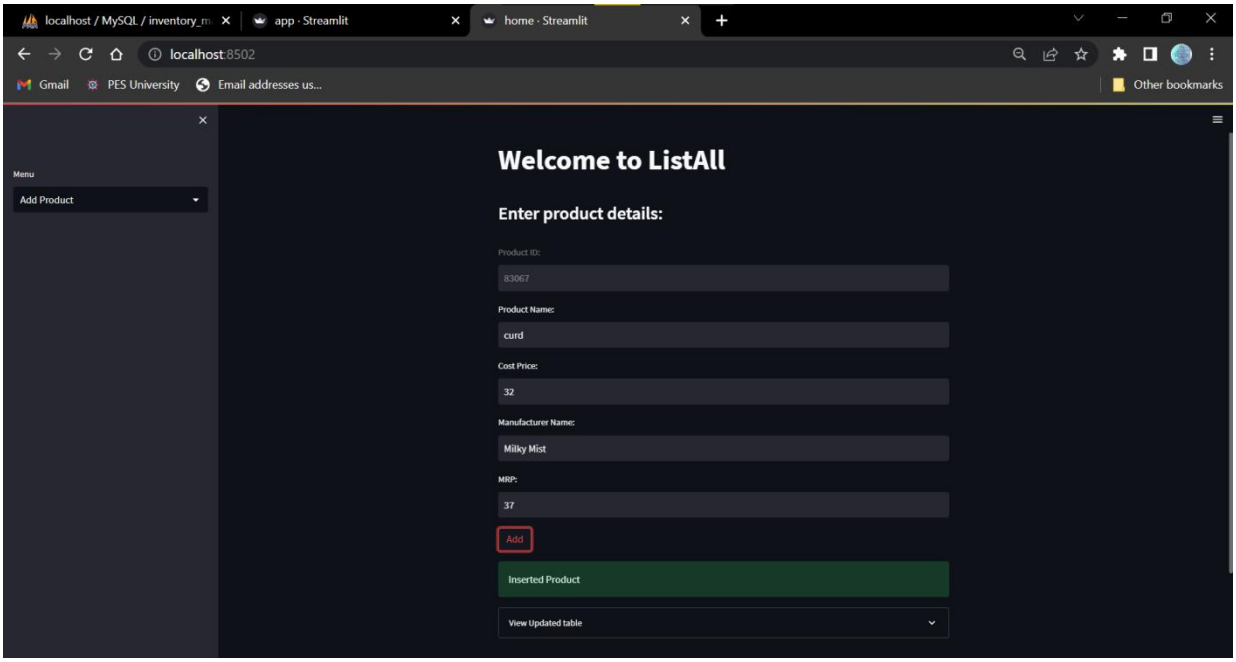

localhost / MySQL / inventory_m
app · Streamlit
home · Streamlit
localhost:8502
Gmail
PES University
Email addresses us...
Other bookmarks
Menu
Add item to stock
50
Add
Values inserted
View Updated table
pid purchase_date mfg_date pqty
0 59854 2022-10-21 2022-10-21 80
1 53028 2022-10-18 2022-10-18 90
2 56145 2022-10-12 2022-10-10 65
3 81010 2022-10-21 2022-10-21 60
4 99016 2022-10-17 2022-10-16 50
5 15292 2022-11-17 2022-10-19 50
6 45124 2022-11-17 2022-09-29 50
7 14270 2022-11-17 2022-09-20 100
8 80811 2022-11-05 2022-11-03 50
Made with Streamlit

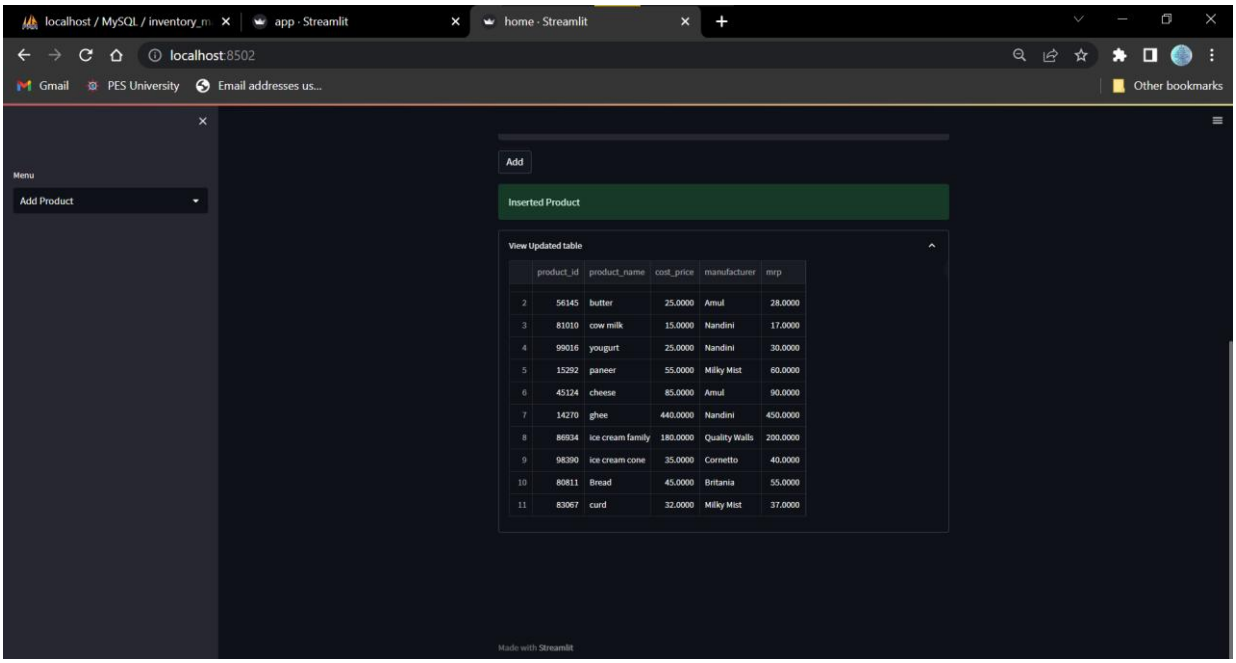

localhost / MySQL / inventory_m
app · Streamlit
home · Streamlit
localhost:8502
Gmail
PES University
Email addresses us...
Other bookmarks
Menu
Update Stock
Welcome to ListAll
Update Stock:
Products that can be updated in stock
80811
Product ID:
80811
Product Name:
Bread
Purchase Date(YYYY-MM-DD):
2022-11-05
Manufacturing Date(YYYY-MM-DD):
2022-11-03
Product Quantity:
90
Update
Stock updated successfully
View Updated table

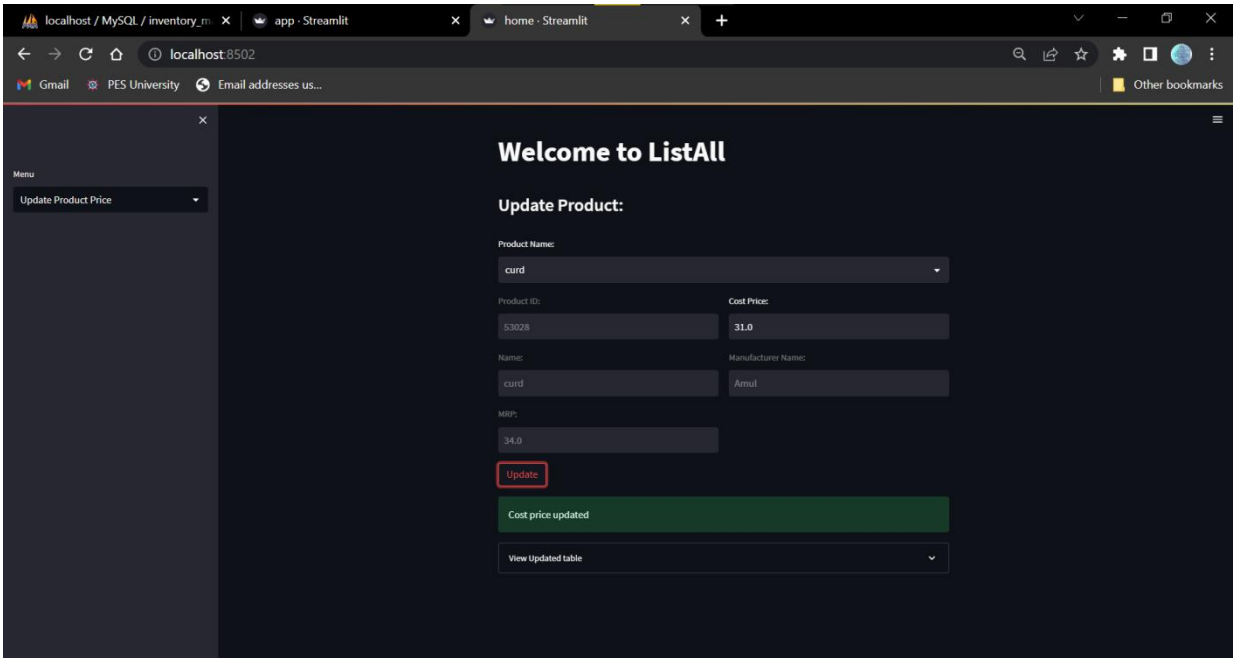

localhost / MySQL / inventory_m
app · Streamlit
home · Streamlit
localhost:8502
Gmail
PES University
Email addresses us...
Other bookmarks
Menu
Update Stock
90
Update
Stock updated successfully
View Updated table
pid purchase_date mfg_date pqty
0 59854 2022-10-21 2022-10-21 80
1 53028 2022-10-18 2022-10-18 90
2 56145 2022-10-12 2022-10-10 65
3 81010 2022-10-21 2022-10-21 60
4 99016 2022-10-17 2022-10-16 50
5 15292 2022-11-17 2022-10-19 50
6 45124 2022-11-17 2022-09-29 50
7 14270 2022-11-17 2022-09-20 100
8 80811 2022-11-05 2022-11-03 90
Made with Streamlit

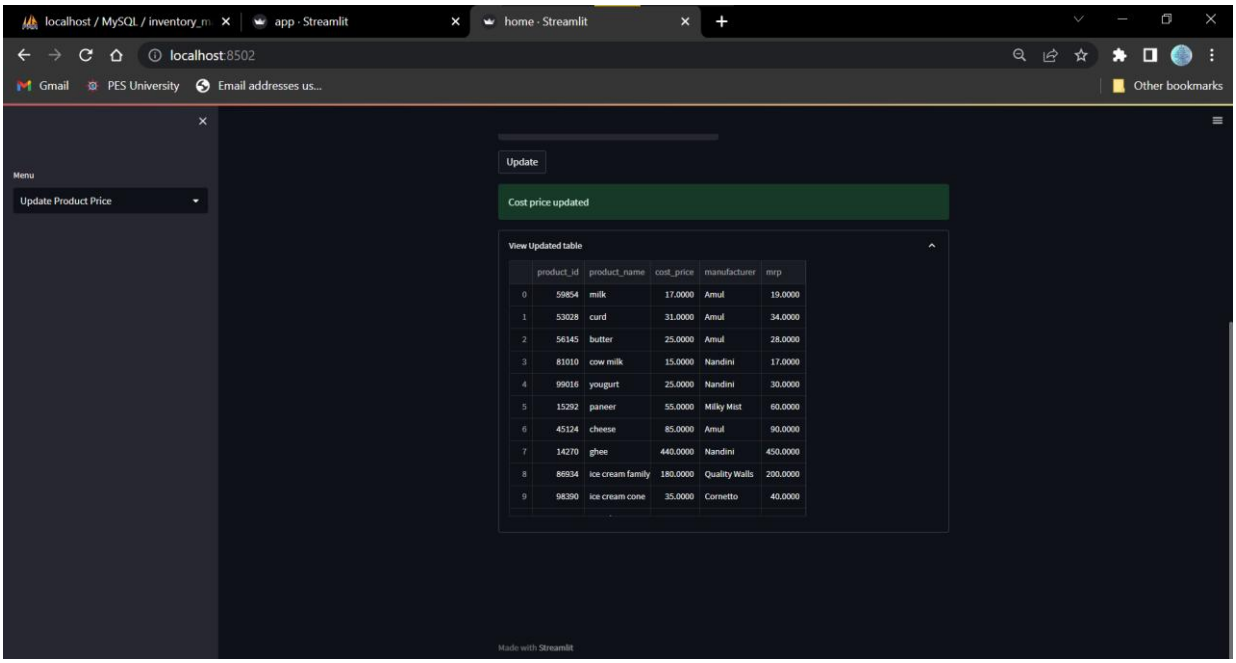

localhost / MySQL / inventory_m
app · Streamlit
home · Streamlit
localhost:8502
Gmail
PES University
Email addresses us...
Other bookmarks
Menu
Remove Stock
Welcome to ListAll
Remove Stock:
Products that can be added to stock
80811
Remove Bread
Product Deleted successfully
View Updated table
pid purchase_date mfg_date pqty
0 59854 2022-10-21 2022-10-21 80
1 53028 2022-10-18 2022-10-18 90
2 56145 2022-10-12 2022-10-10 65
3 81010 2022-10-21 2022-10-21 60
4 99016 2022-10-17 2022-10-16 50
5 15292 2022-11-17 2022-10-19 50
6 45124 2022-11-17 2022-09-29 50
7 14270 2022-11-17 2022-09-20 100

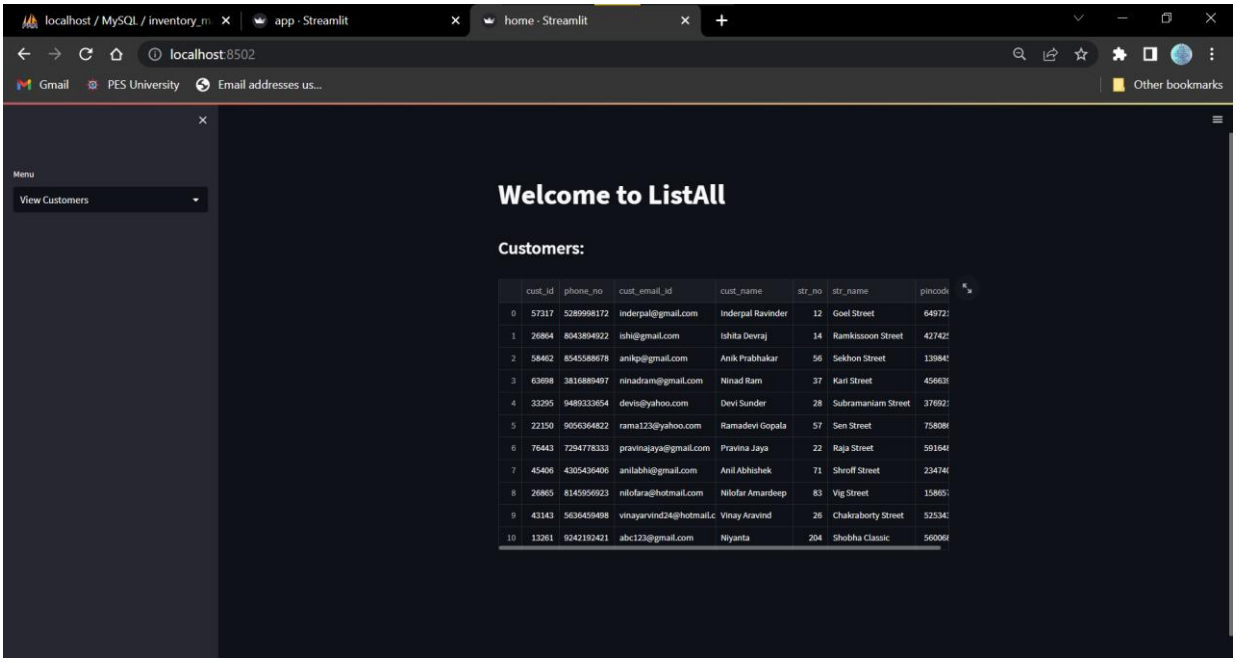

localhost / MySQL / inventory_m
app · Streamlit
home · Streamlit
localhost:8502
Gmail
PES University
Email addresses us...
Other bookmarks
Menu
View Products
Welcome to ListAll
Products:
product_id product_name cost_price manufacturer mrp
1 53028 curd 30.0000 Amul 34.0000
2 56145 butter 25.0000 Amul 28.0000
3 81010 cow milk 15.0000 Nandini 17.0000
4 99016 yougurt 25.0000 Nandini 30.0000
5 15292 paneer 55.0000 Milky Mist 60.0000
6 45124 cheese 85.0000 Amul 90.0000
7 14270 ghee 440.0000 Nandini 450.0000
8 86934 ice cream family 180.0000 Quality Walls 200.0000
9 98390 ice cream cone 35.0000 Cornetto 40.0000
10 80811 Bread 45.0000 Britania 55.0000

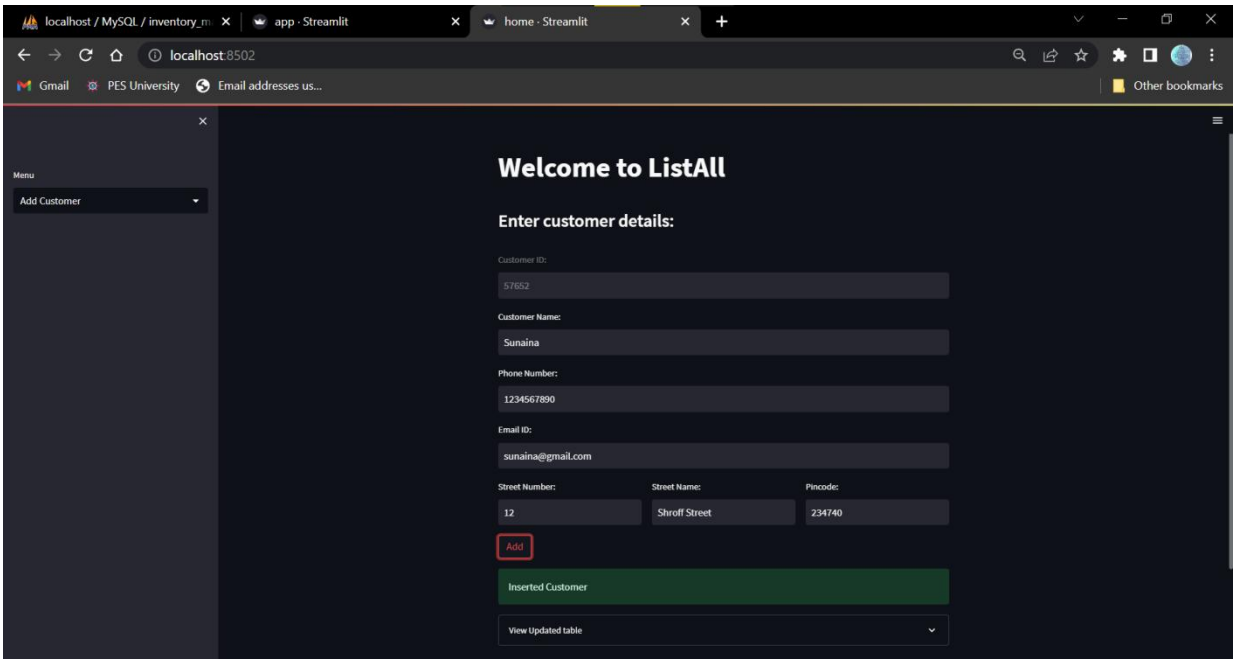

localhost / MySQL / inventory_m
app · Streamlit
home · Streamlit
localhost:8502
Gmail
PES University
Email addresses us...
Other bookmarks
Menu
Add Product
Welcome to ListAll
Enter product details:
Product ID:
83067
Product Name:
curd
Cost Price:
32
Manufacturer Name:
Milky Mist
MRP:
37
Add
Inserted Product
View Updated table

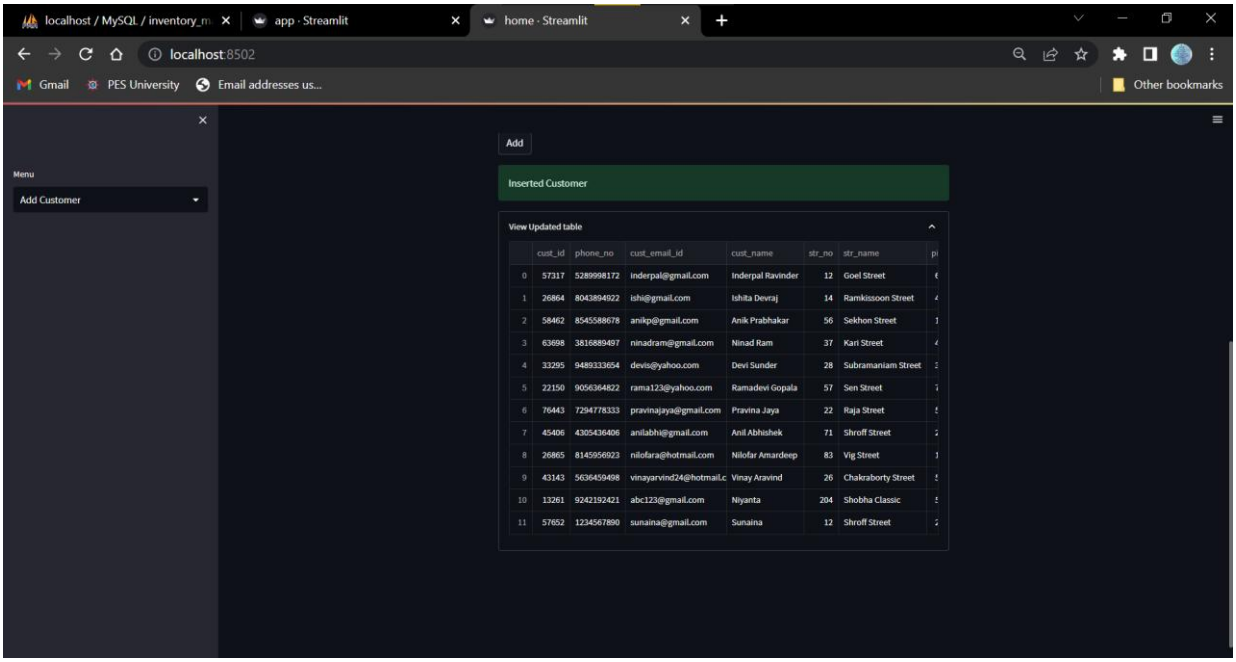

localhost / MySQL / inventory_m
app · Streamlit
home · Streamlit
localhost:8502
Gmail
PES University
Email addresses us...
Other bookmarks
Menu
Add Product
Add
Inserted Product
View Updated table
product_id product_name cost_price manufacturer mrp
2 56145 butter 25.0000 Amul 28.0000
3 81010 cow milk 15.0000 Nandini 17.0000
4 99016 yougurt 25.0000 Nandini 30.0000
5 15292 paneer 55.0000 Milky Mist 60.0000
6 45124 cheese 85.0000 Amul 90.0000
7 14270 ghee 440.0000 Nandini 450.0000
8 86934 ice cream family 180.0000 Quality Walls 200.0000
9 98390 ice cream cone 35.0000 Cornetto 40.0000
10 80811 Bread 45.0000 Britania 55.0000
11 83067 curd 32.0000 Milky Mist 37.0000
Made with Streamlit

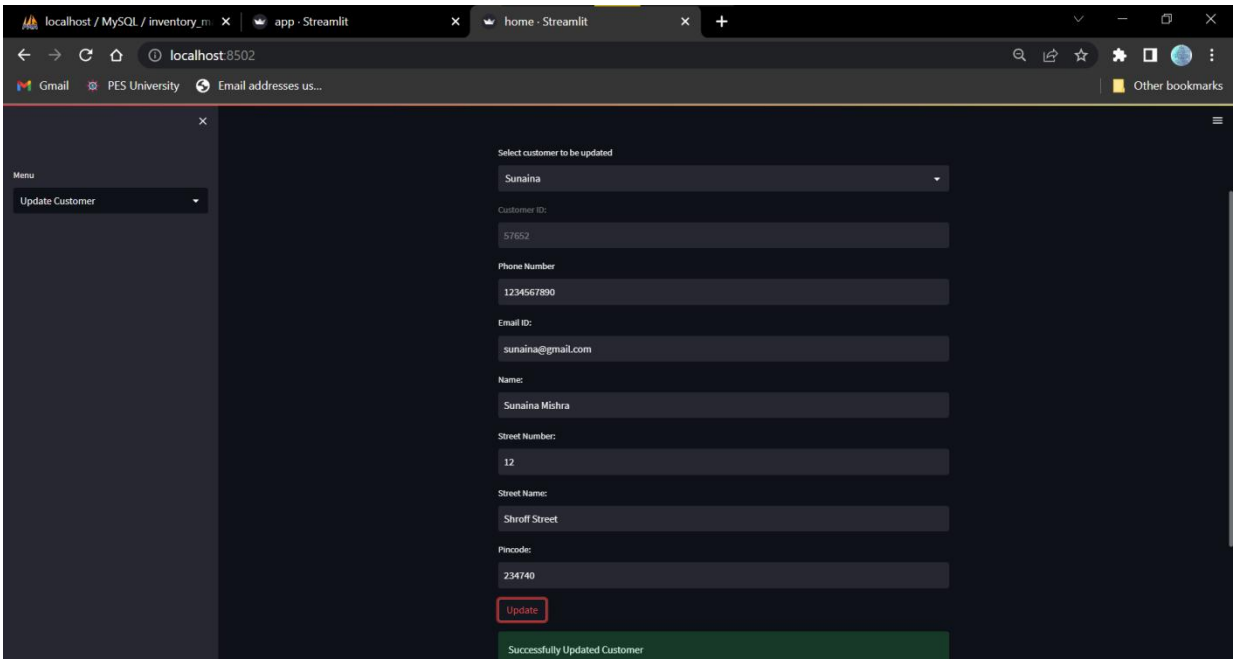

localhost / MySQL / inventory_m
app · Streamlit
home · Streamlit
localhost:8502
Gmail
PES University
Email addresses us...
Other bookmarks
Menu
Update Product Price
Welcome to ListAll
Update Product:
Product Name:
curd
Product ID:
53028
Cost Price:
31.0
Name:
curd
Manufacturer Name:
Amul
MRP:
34.0
Update
Cost price updated
View Updated table

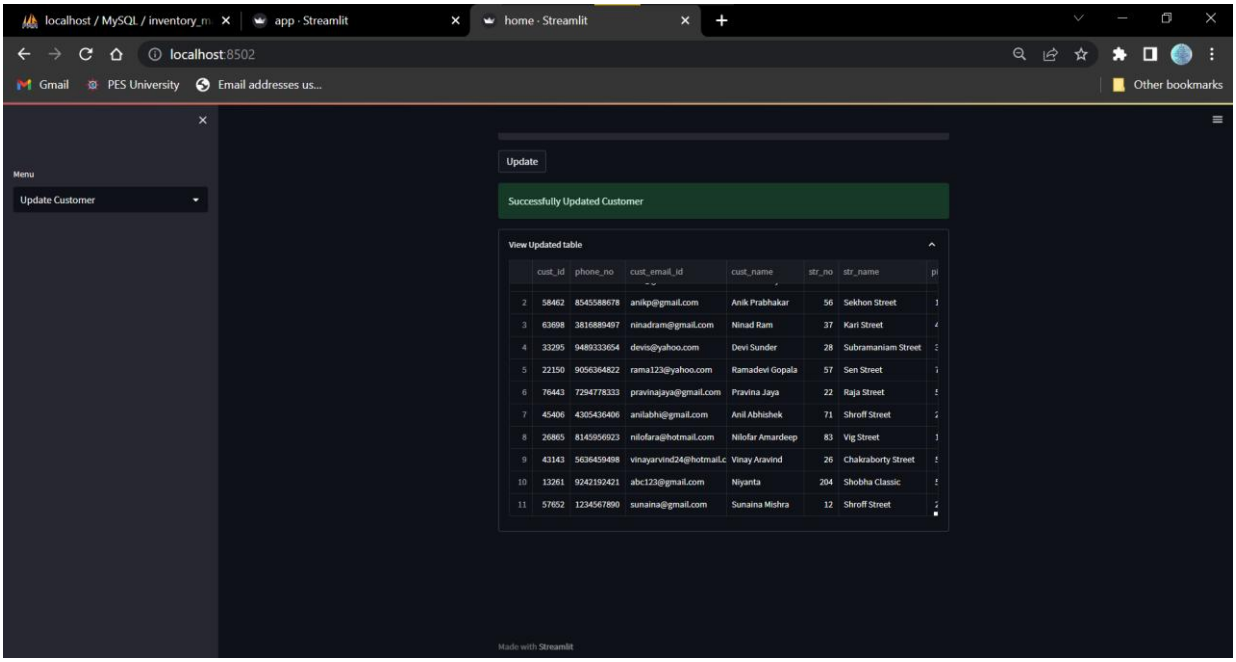

localhost / MySQL / inventory_m
app · Streamlit
home · Streamlit
localhost:8502
Gmail
PES University
Email addresses us...
Other bookmarks
Menu
Update Product Price
Update
Cost price updated
View Updated table
product_id product_name cost_price manufacturer mrp
0 59854 milk 17.0000 Amul 19.0000
1 53028 curd 31.0000 Amul 34.0000
2 56145 butter 25.0000 Amul 28.0000
3 81010 cow milk 15.0000 Nandini 17.0000
4 99016 yougurt 25.0000 Nandini 30.0000
5 15292 paneer 55.0000 Milky Mist 60.0000
6 45124 cheese 85.0000 Amul 90.0000
7 14270 ghee 440.0000 Nandini 450.0000
8 86934 ice cream family 180.0000 Quality Walls 200.0000
9 98390 ice cream cone 35.0000 Cornetto 40.0000
Made with Streamlit

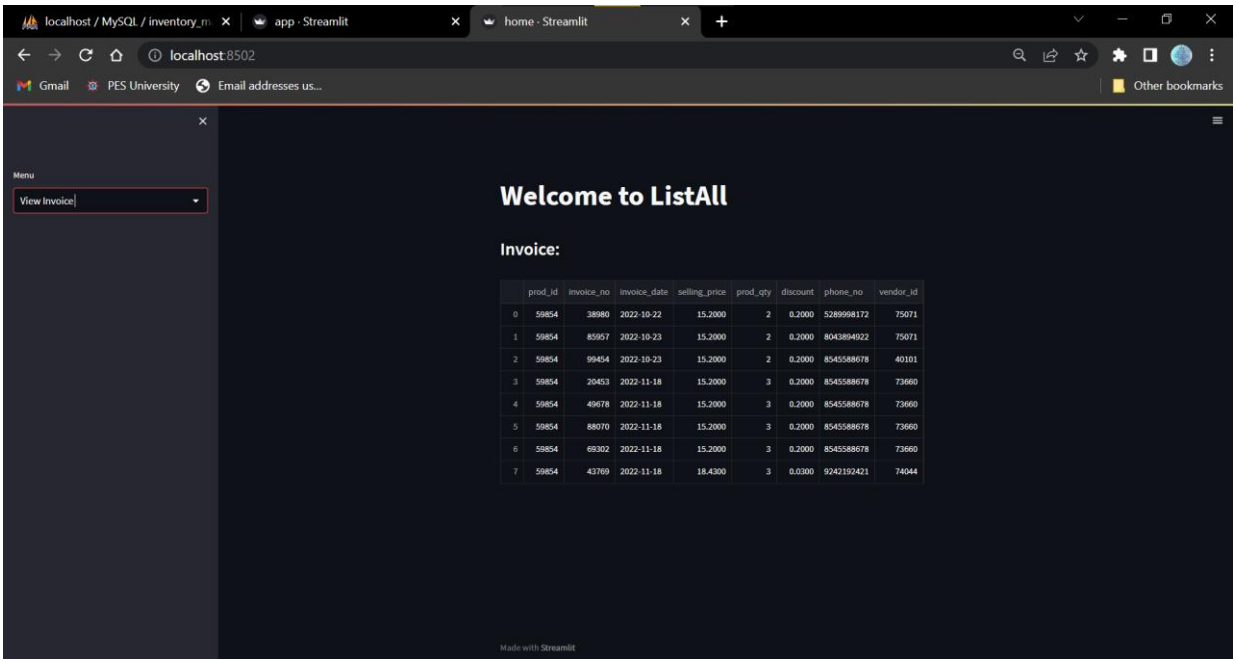

localhost / MySQL / inventory_m
app · Streamlit
home · Streamlit
localhost:8502
Gmail
PES University
Email addresses us...
Other bookmarks
Menu
View Customers
Welcome to ListAll
Customers:
cust_id phone_no cust_email_id cust_name str_no str_name pincod
0 57317 5289998172 inderpal@gmail.com Inderpal Ravinder 12 Goel Street 64972
1 26864 8043894922 ishi@gmail.com Ishita Devraj 14 Ramkissoon Street 42742
2 58462 8545588678 anikp@gmail.com Anik Prabhakar 56 Sekhon Street 13984
3 63698 3816889497 ninadram@gmail.com Ninad Ram 37 Kari Street 45663
4 33295 9489333654 devis@yahoo.com Devi Sunder 28 Subramaniam Street 37692
5 22150 9056364822 rama123@yahoo.com Ramadevi Gopala 57 Sen Street 75808
6 76443 7294778333 pravinajaya@gmail.com Pravina Jaya 22 Raja Street 59164
7 45406 4305436406 anilabhi@gmail.com Anil Abhishek 71 Shroff Street 23474
8 26865 8145956923 nilofara@hotmail.com Nilofar Amardeep 83 Vig Street 15865
9 43143 5636459498 vinayarvind24@hotmail.c Vinay Aravind 26 Chakraborty Street 52534
10 13261 9242192421 abc123@gmail.com Niyanta 204 Shobha Classic 56006


localhost / MySQL / inventory_m
app · Streamlit
home · Streamlit
localhost:8502
Gmail
PES University
Email addresses us...
Other bookmarks
Menu
Add Customer
Welcome to ListAll
Enter customer details:
Customer ID:
57652
Customer Name:
Sunaina
Phone Number:
1234567890
Email ID:
sunaina@gmail.com
Street Number:
12
Street Name:
Shroff Street
Pincode:
234740
Add
Inserted Customer
View Updated table


localhost / MySQL / inventory_m
app · Streamlit
home · Streamlit
localhost:8502
Gmail
PES University
Email addresses us...
Other bookmarks
Menu
Add Customer
Add
Inserted Customer
View Updated table
cust_id phone_no cust_email_id cust_name str_no str_name
0 57317 5289998172 inderpal@gmail.com Inderpal Ravinder 12 Goel Street
1 26864 8043894922 ishi@gmail.com Ishita Devraj 14 Ramkissoon Street
2 58462 8545588678 anikp@gmail.com Anik Prabhakar 56 Sekhon Street
3 63698 3816889497 ninadram@gmail.com Ninad Ram 37 Kari Street
4 33295 9489333654 devis@yahoo.com Devi Sunder 28 Subramaniam Street
5 22150 9056364822 rama123@yahoo.com Ramadevi Gopala 57 Sen Street
6 76443 7294778333 pravinajaya@gmail.com Pravina Jaya 22 Raja Street
7 45406 4305436406 anilabhi@gmail.com Anil Abhishek 71 Shroff Street
8 26865 8145956923 nilofara@hotmail.com Nilofar Amardeep 83 Vig Street
9 43143 5636459498 vinayarvind24@hotmail.c Vinay Aravind 26 Chakraborty Street
10 13261 9242192421 abc123@gmail.com Niyanta 204 Shobha Classic
11 57652 1234567890 sunaina@gmail.com Sunaina 12 Shroff Street


localhost / MySQL / inventory_m
app · Streamlit
home · Streamlit
localhost:8502
Gmail
PES University
Email addresses us...
Other bookmarks
Menu
Update Customer
Select customer to be updated
Sunaina
Customer ID:
57652
Phone Number
1234567890
Email ID:
sunaina@gmail.com
Name:
Sunaina Mishra
Street Number:
12
Street Name:
Shroff Street
Pincode:
234740
Update
Successfully Updated Customer


localhost / MySQL / inventory_m
app · Streamlit
home · Streamlit
localhost:8502
Gmail
PES University
Email addresses us...
Other bookmarks
Menu
Update Customer
Update
Successfully Updated Customer
View Updated table
cust_id phone_no cust_email_id cust_name str_no str_name
2 58462 8545588678 anikp@gmail.com Anik Prabhakar 56 Sekhon Street
3 63698 3816889497 ninadram@gmail.com Ninad Ram 37 Kari Street
4 33295 9489333654 devis@yahoo.com Devi Sunder 28 Subramaniam Street
5 22150 9056364822 rama123@yahoo.com Ramadevi Gopala 57 Sen Street
6 76443 7294778333 pravinajaya@gmail.com Pravina Jaya 22 Raja Street
7 45406 4305436406 anilabhi@gmail.com Anil Abhishek 71 Shroff Street
8 26865 8145956923 nilofara@hotmail.com Nilofar Amardeep 83 Vig Street
9 43143 5636459498 vinayarvind24@hotmail.c Vinay Aravind 26 Chakraborty Street
10 13261 9242192421 abc123@gmail.com Niyanta 204 Shobha Classic
11 57652 1234567890 sunaina@gmail.com Sunaina Mishra 12 Shroff Street
Made with Streamlit


localhost / MySQL / inventory_m
app · Streamlit
home · Streamlit
localhost:8502
Gmail
PES University
Email addresses us...
Other bookmarks
Menu
View Invoice
Welcome to ListAll
Invoice:
prod_id invoice_no invoice_date selling_price prod_qty discount phone_no vendor_id
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1 59854 85957 2022-10-23 15.2000 2 0.2000 8043894922 75071
2 59854 99454 2022-10-23 15.2000 2 0.2000 8545588678 40101
3 59854 20453 2022-11-18 15.2000 3 0.2000 8545588678 73660
4 59854 49678 2022-11-18 15.2000 3 0.2000 8545588678 73660
5 59854 88070 2022-11-18 15.2000 3 0.2000 8545588678 73660
6 59854 69302 2022-11-18 15.2000 3 0.2000 8545588678 73660
7 59854 43769 2022-11-18 18.4300 3 0.0300 9242192421 74044
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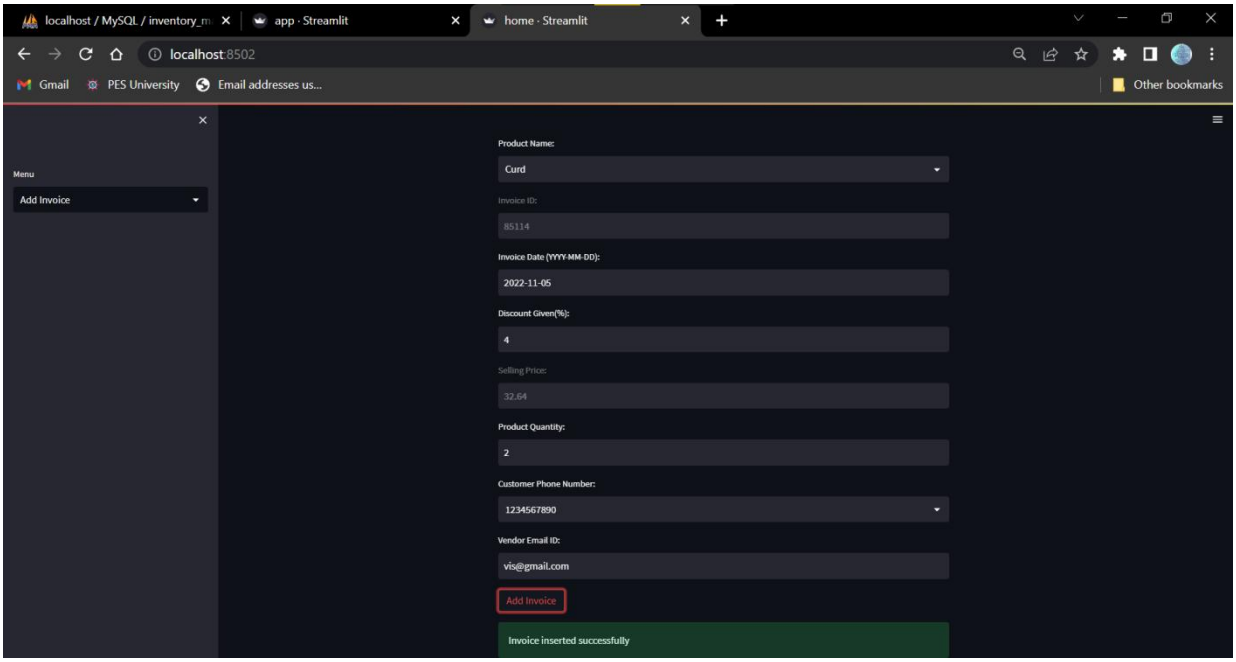
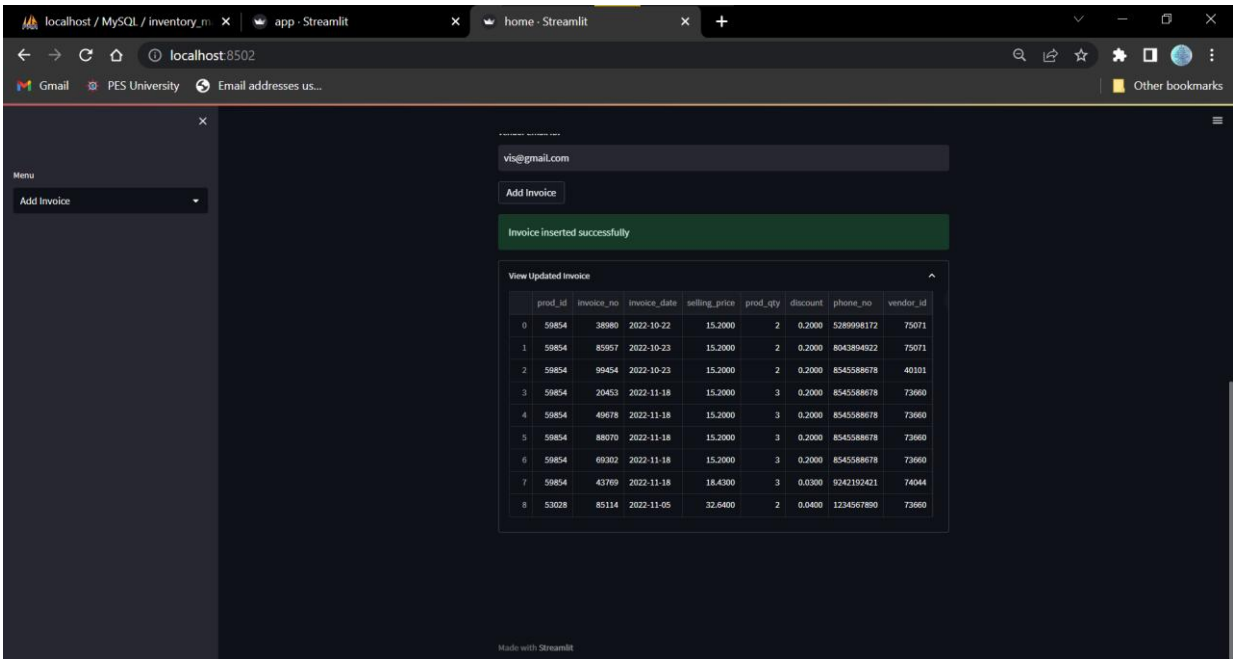

localhost / MySQL / inventory_m
app · Streamlit
home · Streamlit
localhost:8502
Gmail
PES University
Email addresses us...
Other bookmarks
Menu
Add Invoice
Product Name:
Curd
Invoice ID:
85114
Invoice Date (YYYY-MM-DD):
2022-11-05
Discount Given(%):
4
Selling Price:
32.64
Product Quantity:
2
Customer Phone Number:
1234567890
Vendor Email ID:
vis@gmail.com
Add Invoice
Invoice inserted successfully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app · Streamlit
home · Streamlit
localhost:8502
Gmail
PES University
Email addresses us...
Other bookmarks
Menu
Add Invoice
vis@gmail.com
Add Invoice
Invoice inserted successfully
View Updated Invoice
prod_id invoice_no invoice_date selling_price prod_qty discount phone_no vendor_id
0 59854 38980 2022-10-22 15.2000 2 0.2000 5289998172 75071
1 59854 85957 2022-10-23 15.2000 2 0.2000 8043894922 75071
2 59854 99454 2022-10-23 15.2000 2 0.2000 8545588678 40101
3 59854 20453 2022-11-18 15.2000 3 0.2000 8545588678 73660
4 59854 49678 2022-11-18 15.2000 3 0.2000 8545588678 73660
5 59854 88070 2022-11-18 15.2000 3 0.2000 8545588678 73660
6 59854 69302 2022-11-18 15.2000 3 0.2000 8545588678 73660
7 59854 43769 2022-11-18 18.4300 3 0.0300 9242192421 74044
8 53028 85114 2022-11-05 32.6400 2 0.0400 1234567890 73660
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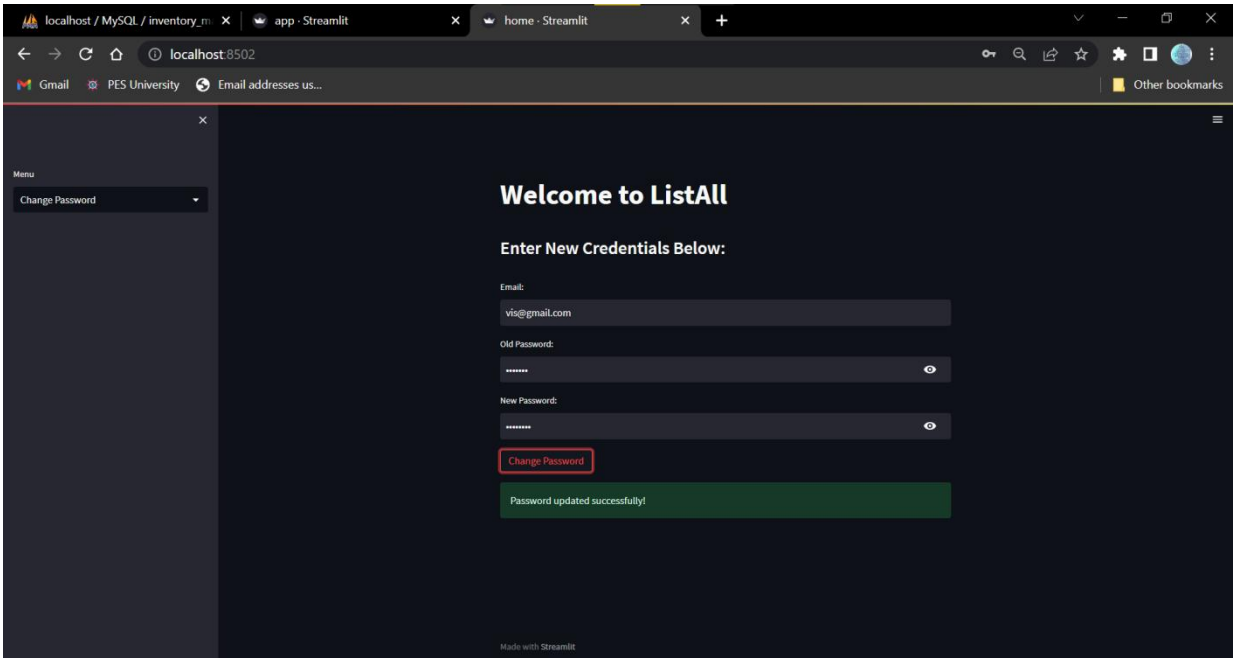
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localhost:8502
Gmail
PES University
Email addresses us...
Other bookmarks
Menu
Change Password
Welcome to ListAll
Enter New Credentials Below:
Email:
vis@gmail.com
Old Password:
New Password:
Change Password
Password updated successfully!
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12. Conclusion

The project currently performs most basic CRUD operations on the database and comprises of triggers, functions, procedures, cursors etc. to help refine these CRUD operations. There is much more scope to this project and I will continue to build it going forward.

13. References

[1] PESU Academy Slides and Notes

[2] MySQL official documentation