
Database queries used

```
-----  
-- FUNCTION  
-----  
  
DELIMITER $$  
  
CREATE FUNCTION remaining_days(exp_date DATE)  
RETURNS INT(11)  
DETERMINISTIC  
BEGIN  
    DECLARE days INT(11);  
    DECLARE cur_day INT(11);  
    SET cur_day=CURRENT_DATE();  
    IF cur_day < exp_date THEN  
    SET days = DATEDIFF(exp_date,cur_day);  
    ELSE  
    SET days = 0;  
    END IF;  
    RETURN days;  
  
END; $$  
  
DELIMITER ;  
  
-----  
-- PROCEDURE  
-----  
  
DELIMITER $$  
  
CREATE PROCEDURE stock(  
    IN lim INT,  
    OUT out_med_id DECIMAL(6,0),  
    OUT out_med_name VARCHAR(50),  
    OUT out_quantity INT(11),  
    OUT out_location_rack VARCHAR(30))  
BEGIN  
    SELECT med_id, med_name, med_qty, location_rack  
    INTO out_med_id, out_med_name, out_quantity, out_location_rack  
    FROM meds where med_qty<=lim;  
  
END; $$  
  
DELIMITER ;
```

```

-----
-- TRIGGER
-----

DELIMITER $$

CREATE TRIGGER med_qty_update
AFTER UPDATE
ON purchase FOR EACH ROW
BEGIN
UPDATE meds SET med_qty = med_qty - old.p_qty WHERE meds.med_id=new.med_id;
UPDATE meds SET med_qty = med_qty + new.p_qty WHERE meds.med_id=new.med_id;
END $$

DELIMITER ;

-----
-- CURSOR
-----

DELIMITER $$

CREATE PROCEDURE backup_of_sales()
BEGIN
DECLARE done INT DEFAULT 0;
DECLARE SaleID INTEGER(11);
DECLARE CID DECIMAL(6,0);
DECLARE SDate DATE;
DECLARE STime TIME;
DECLARE TotalAmt DECIMAL(8,2);
DECLARE EID DECIMAL(7,0);
DECLARE sales_cursor CURSOR FOR SELECT * FROM sales;
DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;
OPEN sales_cursor;
label: LOOP
FETCH sales_cursor INTO SaleID, CID, SDate, STime, TotalAmt, EID;
INSERT INTO backup_sales VALUES(SaleID, CID, SDate, STime, TotalAmt, EID);
IF done = 1 THEN LEAVE label;
END IF;
END LOOP;
CLOSE sales_cursor;
END $$

```

```
DELIMITER ;
```

```
ALTER TABLE sales_items  
ADD PRIMARY KEY (sale_id,med_id),  
ADD CONSTRAINT sales_items_ibfk_1 FOREIGN KEY (sale_id) REFERENCES sales (sale_id),  
ADD CONSTRAINT sales_items_ibfk_2 FOREIGN KEY (med_id) REFERENCES meds (med_id);
```

```
ALTER TABLE purchase  
ADD PRIMARY KEY (p_id,med_id),  
ADD CONSTRAINT purchase_ibfk_1 FOREIGN KEY (sup_id) REFERENCES suppliers (sup_id),  
ADD CONSTRAINT purchase_ibfk_2 FOREIGN KEY (med_id) REFERENCES meds (med_id);
```

```
ALTER TABLE sales_items  
ADD PRIMARY KEY (sale_id,med_id),  
ADD CONSTRAINT sales_items_ibfk_1 FOREIGN KEY (sale_id) REFERENCES sales (sale_id),  
ADD CONSTRAINT sales_items_ibfk_2 FOREIGN KEY (med_id) REFERENCES meds (med_id);
```

```
ALTER TABLE sales  
ADD PRIMARY KEY (sale_id),  
ADD CONSTRAINT sales_ibfk_1 FOREIGN KEY (c_id) REFERENCES customer (c_id),  
ADD CONSTRAINT sales_ibfk_2 FOREIGN KEY (e_id) REFERENCES employee (e_id);
```

```
ALTER TABLE meds ADD PRIMARY KEY (med_id);
```

```
ALTER TABLE suppliers ADD PRIMARY KEY (sup_id);
```

```
ALTER TABLE customer ADD PRIMARY KEY (c_id), ADD UNIQUE KEY c_phno (c_phno), ADD UNIQUE KEY c_mail  
(c_mail);
```

Queries execution in Front end

Front END UI

The screenshot displays a web application titled "PHARMACY MANAGEMENT SYSTEM". On the left, a sidebar menu is visible with options: "Main Menu", "CREATE" (highlighted in red), "READ", "UPDATE", "DELETE", and "COMMAND WINDOW". The main content area is titled "Add Entries To Tables". It features a dropdown menu labeled "Select Table to INSERT Data" with "EMPLOYEE" selected. Below this, a form titled "Fill the details of Employee" contains several input fields: "Employee ID", "Employee First Name", "Employee Last Name", "Birth Date" (pre-filled with "2022/11/18"), "Age", "Sex" (dropdown menu with "Male" selected), "Employee Type" (dropdown menu with "Admin" selected), "Join Date" (pre-filled with "2022/11/18"), "Salary", "Phone Number", "Mail", and "Address". An "Add Employee" button is located at the bottom of the form.

Fig-10.1: UI of Pharmacy Management system

PHARMACY MANAGEMENT SYSTEM

Add Entries To Tables

Select Table to INSERT Data

CUSTOMER

Fill the details of Customer

Customer ID	Customer First Name	Customer Last Name
987110	Prabhu	Raj
Age	Sex	Phone Number
23	Male	6789389039
Mail		
prabhu@hotmail.com		

Add Customer

Successfully added Customer : Prabhu Raj

Fig-10.2: Inserting to customer table from UI

PHARMACY MANAGEMENT SYSTEM

Add Entries To Tables

Select Table to INSERT Data

MEDICINES

Fill the details of Medicines

Medicine ID	Medicine Name
123012	Limcee
Quantity	Category
60	Tablet
Price	Location Rack
2	rack 3

Add Medicine

Successfully added Medicine : Limcee

Fig-10.3: Inserting to meds table from UI

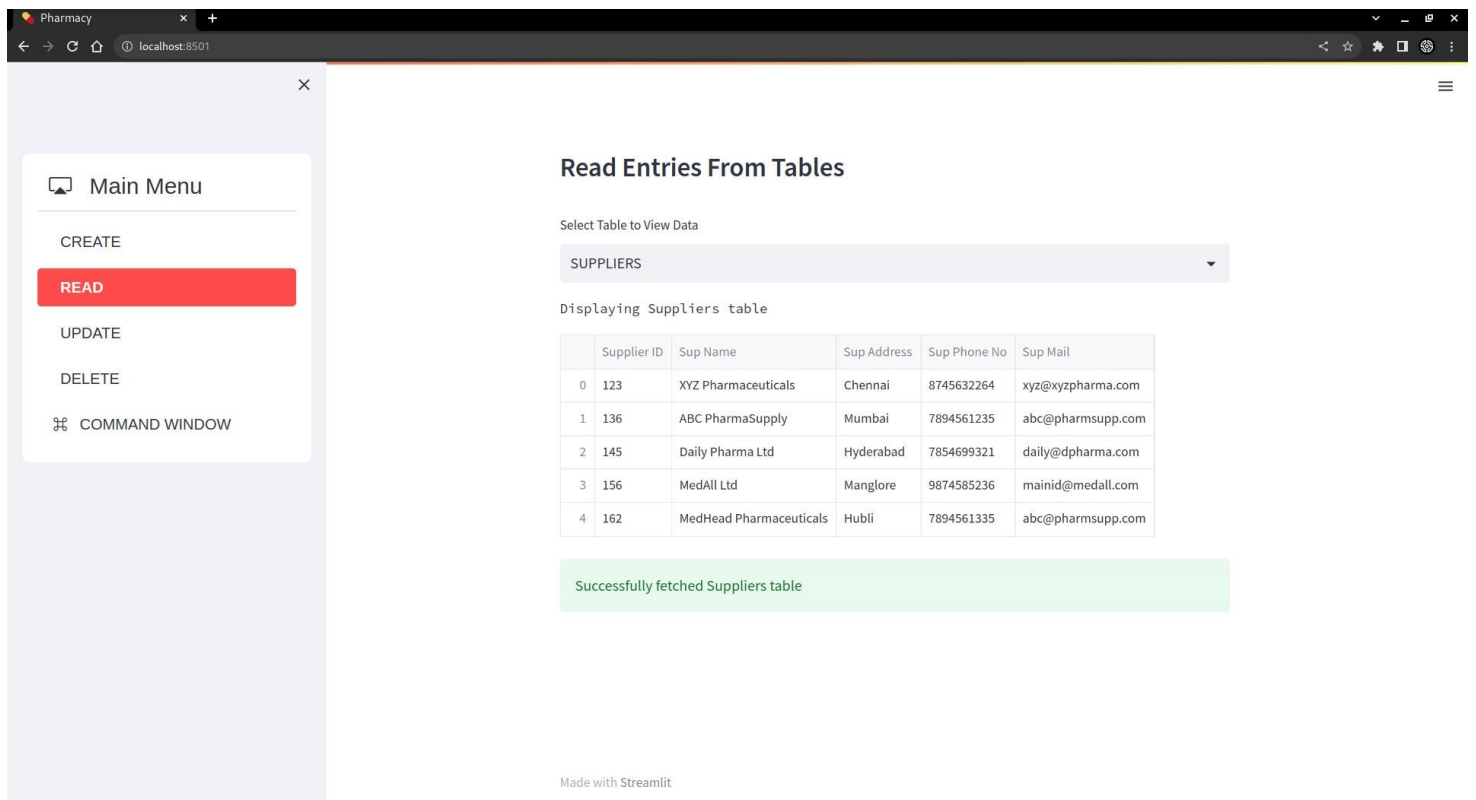


Fig-10.4: Reading suppliers table from UI

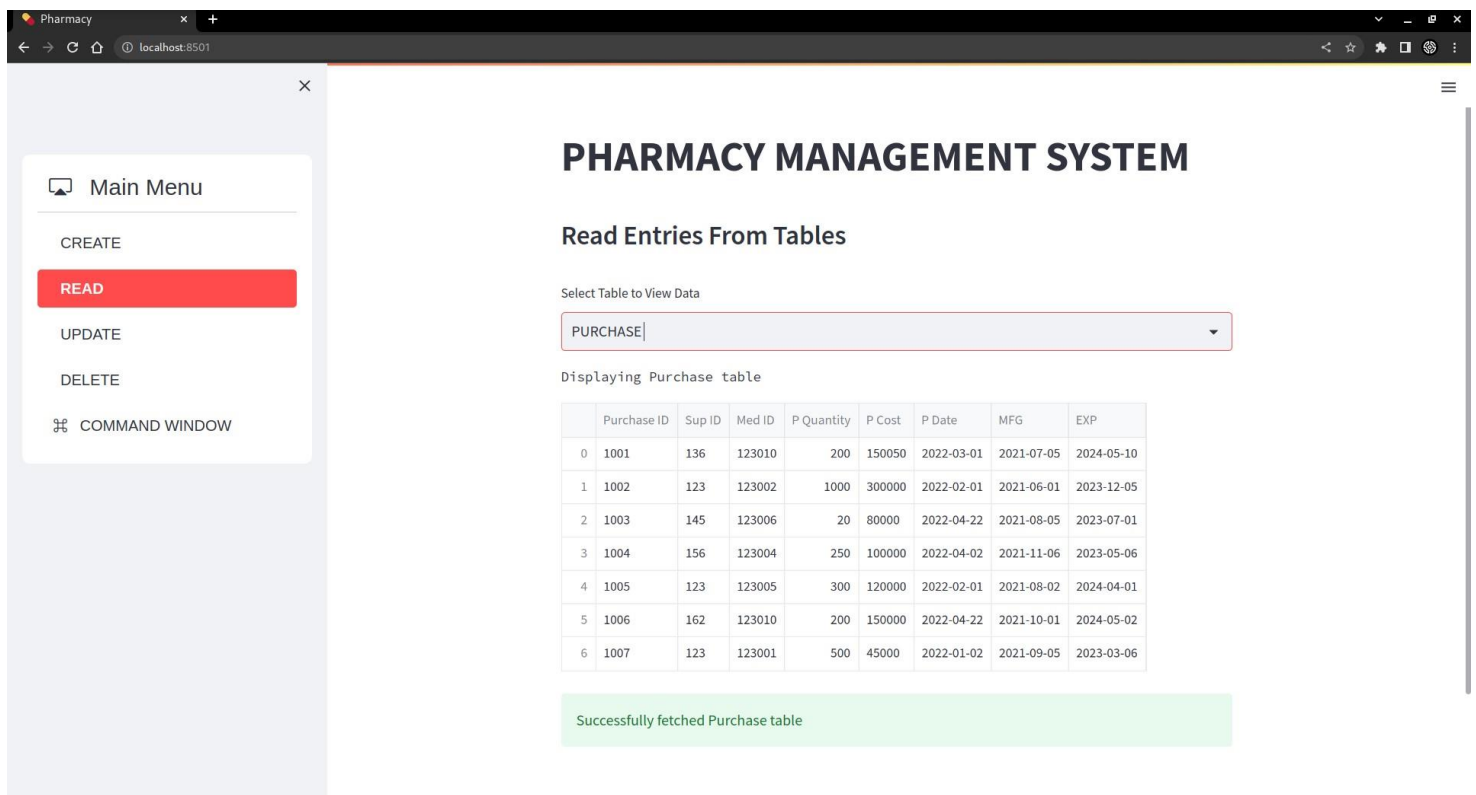


Fig-10.5: Reading purchase table from UI

Select Table to Update Data

EMPLOYEE

Current data in Employee Table

Select Employee ID

4567006

Employee ID	Employee First Name	Employee Last Name
4567006	Shoaib	Ahmed
Birth Date	Age	Sex
2001-12-11	21	Male
Employee Type	Join Date	Salary
Pharmacist	2018-09-05	28000.00
Phone Number	Mail	Address
6583903993	shoaib@hotmail.com	Hosahalli

Update Employee

Successfully Updated Employee with ID : 4567006

Fig-10.6: Updating employee table from UI

Select Table to Update Data

MEDICINES

Current data in Medicine Table

Select Medicine ID

123001

Medicine ID	Medicine Name
123001	Dolo 650 MG
Quantity	Category
500	Tablet
Price	Location Rack
2.00	rack 5

Update Medicine

Successfully Updated Medicine with ID : 123001

Updated data

Fig-10.7: Updating meds table from UI

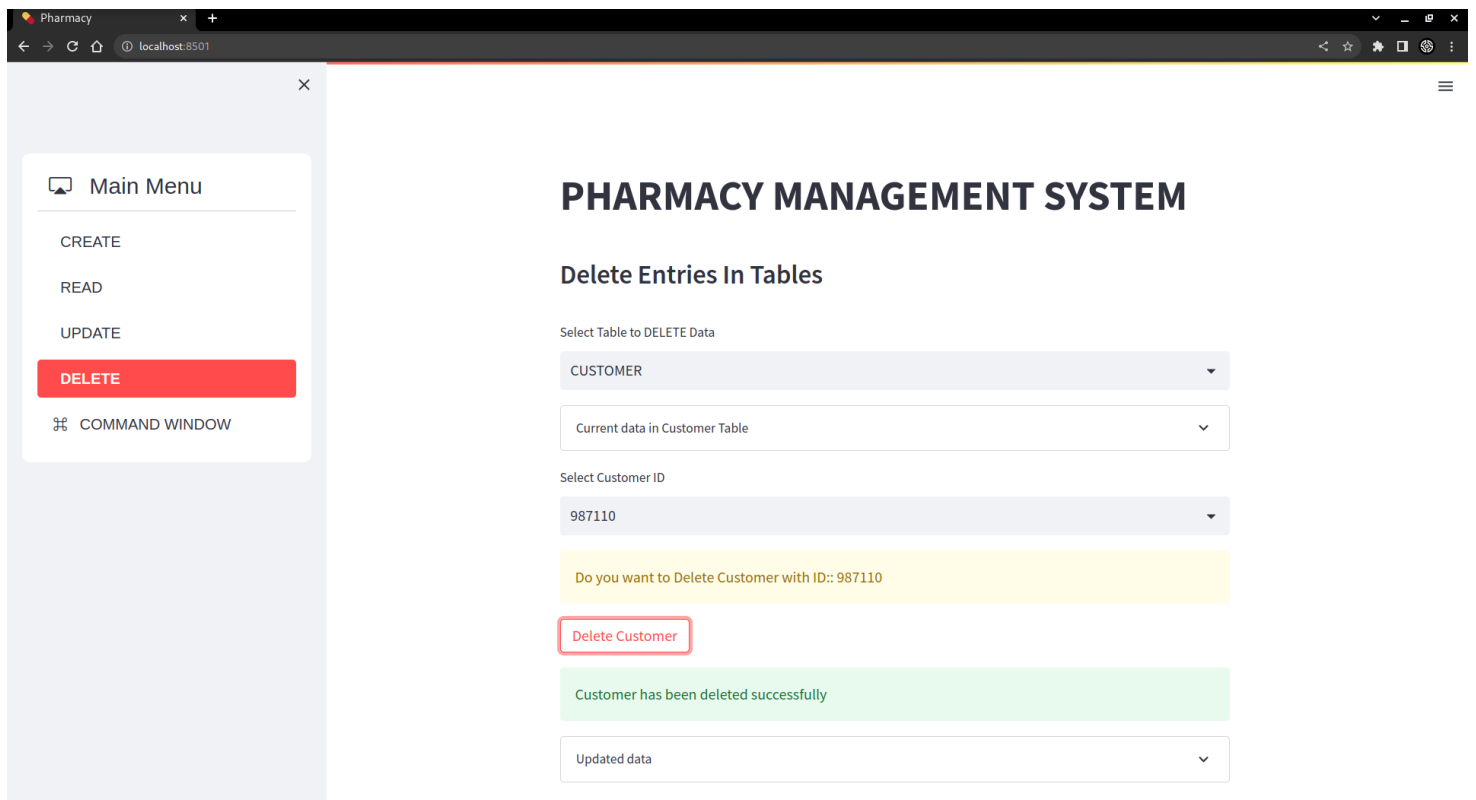


Fig-10.8: Deleting entry in employee table from UI

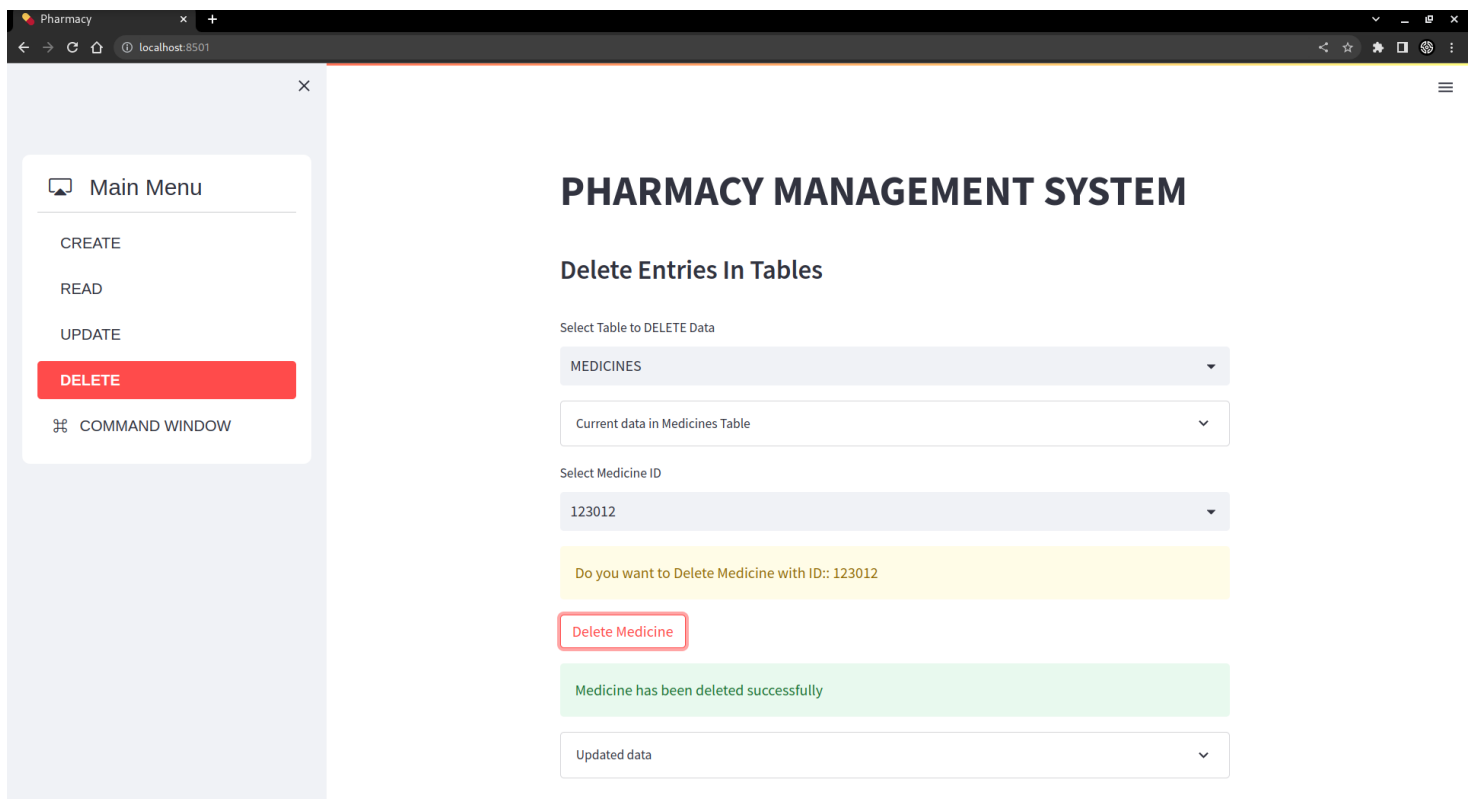


Fig-10.9: Deleting entry in meds table from UI

The screenshot shows a web browser window titled 'Pharmacy' at 'localhost:8501'. On the left is a 'Main Menu' sidebar with options: CREATE, READ, UPDATE, DELETE, and a red 'COMMAND WINDOW' button. The main content area is titled 'PHARMACY MANAGEMENT SYSTEM' and 'MySQL Command Execution Window'. It has a text input field 'Enter MySQL Command' containing 'SELECT * FROM meds;', a 'Run' button, and a green 'Success' message. Below is a table of medication data.

	med_id	med_name	med_qty	category	med_price	location_rack
0	123001	Dolo 650 MG	500	Tablet	200	rack 5
1	123002	Panadol Cold & Flu	90	Tablet	250	rack 6
2	123003	Livogen	25	Capsule	500	rack 3
3	123004	Gelusil	440	Tablet	125	rack 4
4	123005	Cyclopam	220	Tablet	600	rack 2
5	123006	Benadryl 200 ML	35	Syrup	5000	rack 10
6	123007	Lopamide	15	Capsule	500	rack 7

Fig-10.10: Executing 'select * from meds' command from UI

The screenshot shows the same 'Pharmacy' web browser window. The 'Main Menu' sidebar is identical. The main content area shows the 'MySQL Command Execution Window' with the command 'SELECT * FROM suppliers;' entered. A 'Run' button and a green 'Success' message are visible. Below is a table of supplier data.

	sup_id	sup_name	sup_addr	sup_phno	sup_mail
0	123	XYZ Pharmaceuticals	Chennai	8745632264	xyz@xyzpharma.com
1	136	ABC PharmaSupply	Mumbai	7894561235	abc@pharmsupp.com
2	145	Daily Pharma Ltd	Hyderabad	7854699321	daily@dpharma.com
3	156	MedAll Ltd	Manglore	9874585236	mainid@medall.com
4	162	MedHead Pharmaceuticals	Hubli	7894561335	abc@pharmsupp.com

Fig-10.11: Executing 'select * from suppliers' command from UI