DIARY MANAGEMENT SYSTEM

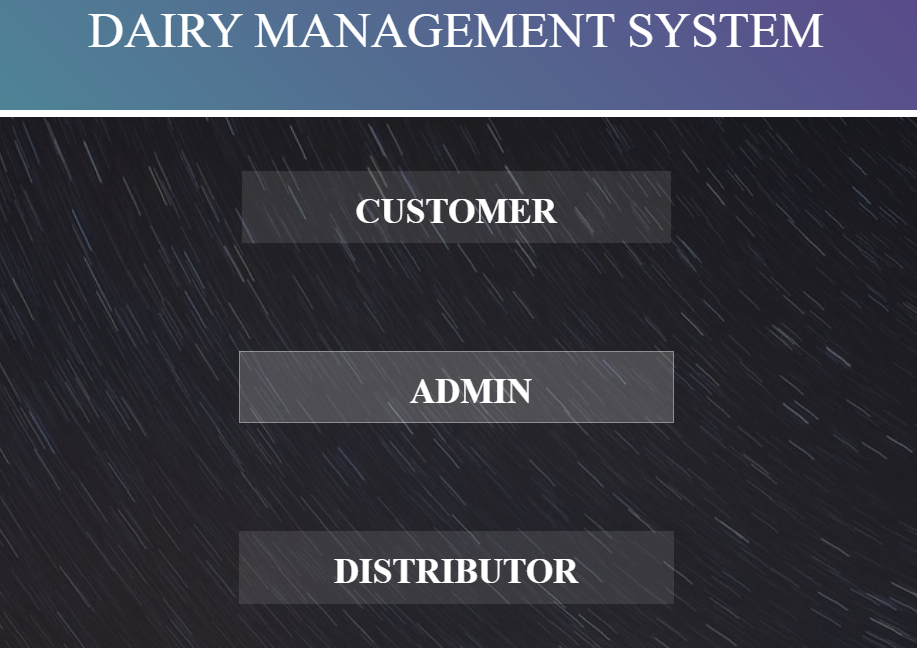
SWAPNIL KOLE - B118060  
PRIYAJEET CHOUDHARY - B118044  
AYUSH RAJ - B518015

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SYSTEM DESCRIPTION

This project is based on Diary marketing consisting of four tables Milk packets having all the attributes describing milk packets like its capacity manufacturing date and it’s unique ID and the table is linked to customer table which consist of details about the customers like their name and aadhar card number{No redundancy} which is required for customer verification and through which customer can login and there is also another table consisting of farm details linked to the Milk packet table so that we can get details like location ,owner and ID of the farm from where the milk packet is manufactured and this table is linked to another table farmer which have details about the farmers working at different farms so that farmers can login through his credentials that are Unique Id and aadhar card number of the farmer. So in total our system consist of four different table interacting with the help of foreign keys with each other for the smooth functioning of the system.



Full code at: <https://github.com/kole-swapnil/Dairy-Management-System-SQL>

SUPPLY CHAIN

|  |
| --- |
|  |
| **FARM** |

|  |
| --- |
|  |
| **FARMER** |

|  |
| --- |
|  |
| **MILK PACKETS** |

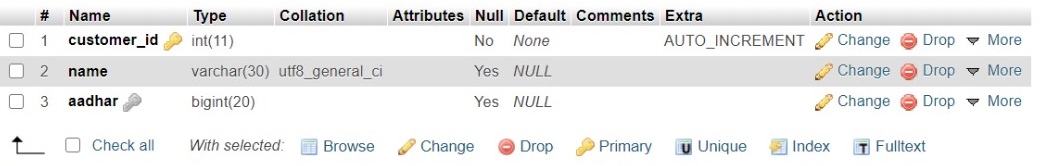
|  |
| --- |
|  |
| **CUSTOMER** |

DATA Dictionaries

**MILK\_PACKET**

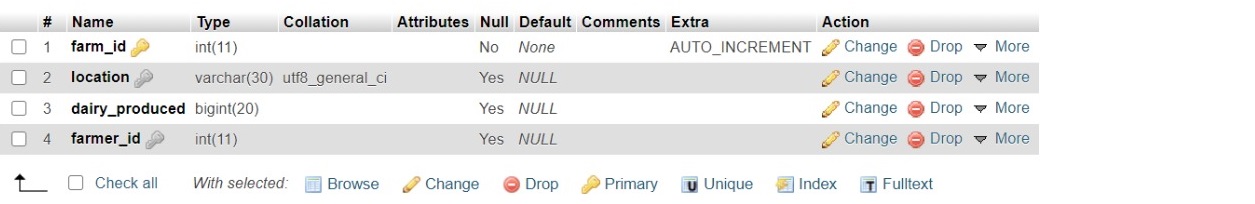
Primary Key

Foreign Key

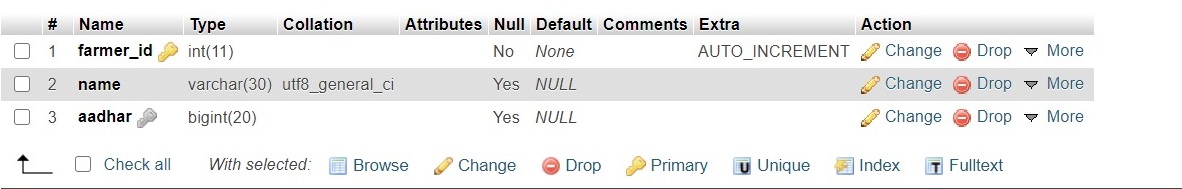
**CUSTOMER**

Indexed

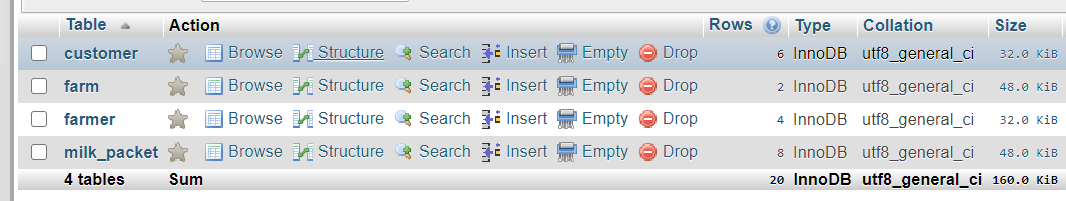
**FARM**



**FARM OWNER**



**MILK FACTORY DATABASE**



**CODE FOR DATABASE AND TABLE CREATION**

CREATE DATABASE MILK\_FACTORY;

GRANT ALL ON MILK\_FACTORY.\* TO 'kole'@'localhost' IDENTIFIED BY 'swapnil';

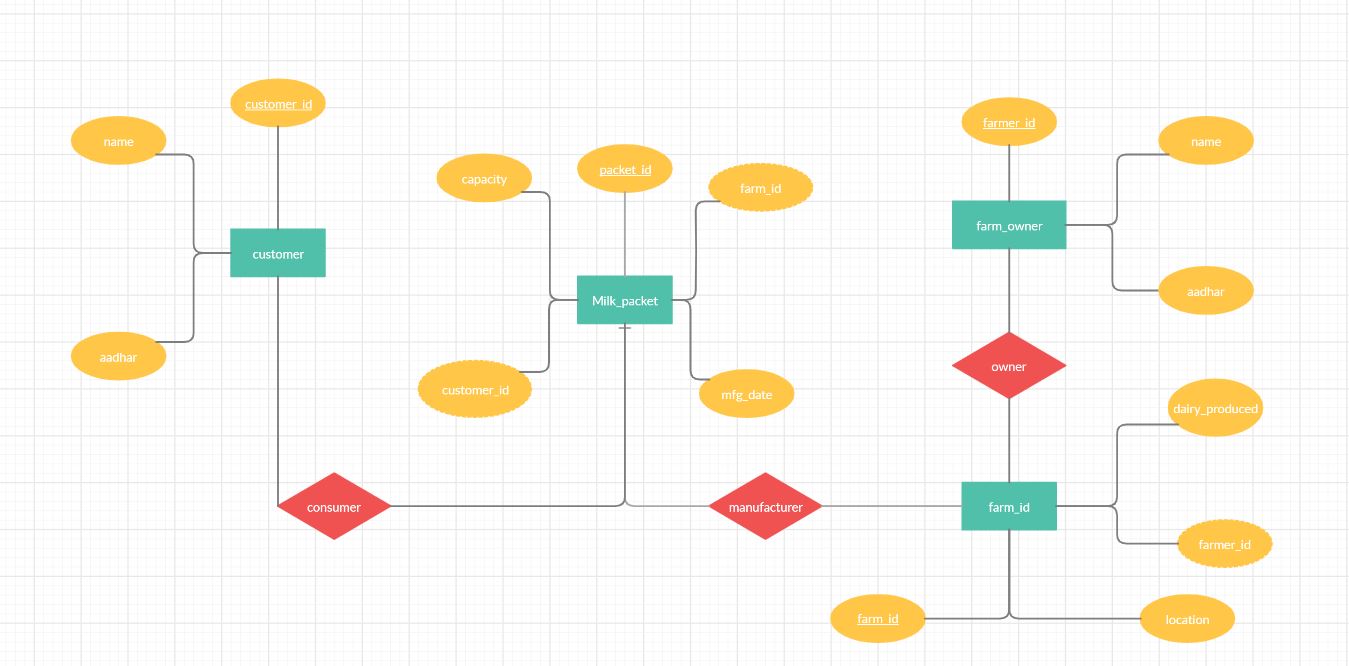
GRANT ALL ON MILK\_FACTORY.\* TO 'kole'@'127.0.0.1' IDENTIFIED BY 'swapnil';

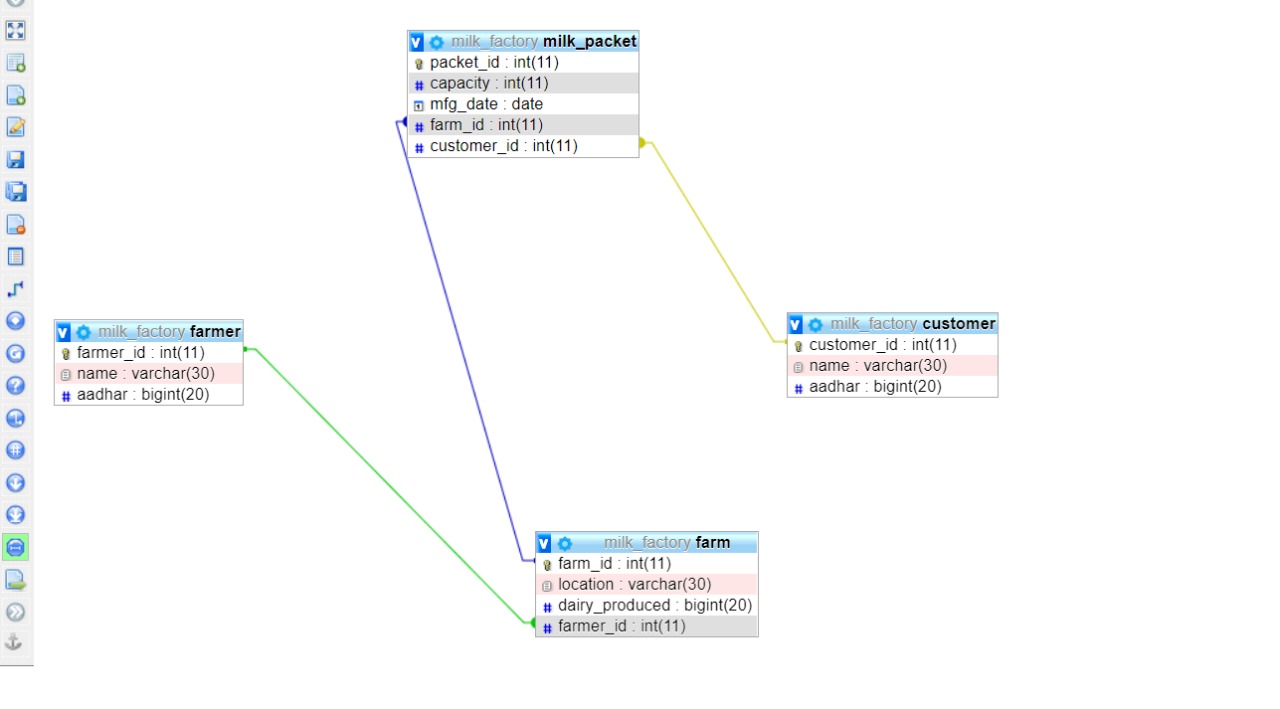
CREATE TABLE Farmer (farmer\_id INTEGER NOT NULL AUTO\_INCREMENT PRIMARY KEY, name VARCHAR(30), aadhar BIGINT, index(aadhar)) ENGINE=InnoDB CHARSET=utf8;

CREATE TABLE Farm ( farm\_id INTEGER NOT NULL AUTO\_INCREMENT PRIMARY KEY,location VARCHAR(30), dairy\_produced BIGINT, farmer\_id INTEGER, index(location), CONSTRAINT FOREIGN KEY(farmer\_id) REFERENCES farmer (farmer\_id) ON DELETE CASCADE ON UPDATE CASCADE) ENGINE=InnoDB CHARSET=utf8;

CREATE TABLE customer ( customer\_id INTEGER NOT NULL AUTO\_INCREMENT PRIMARY KEY, name VARCHAR(30), aadhar BIGINT, index(aadhar)) ENGINE=InnoDB CHARSET=utf8;

CREATE TABLE milk\_packet (packet\_id INTEGER NOT NULL AUTO\_INCREMENT PRIMARY KEY, capacity INTEGER, mfg\_date DATE, farm\_id INTEGER, customer\_id INTEGER,CONSTRAINT FOREIGN KEY(farm\_id) REFERENCES farm (farm\_id) ON DELETE CASCADE ON UPDATE CASCADE, CONSTRAINT FOREIGN KEY(customer\_id) REFERENCES customer (customer\_id) ON DELETE CASCADE ON UPDATE CASCADE) ENGINE=InnoDB CHARSET=utf8;

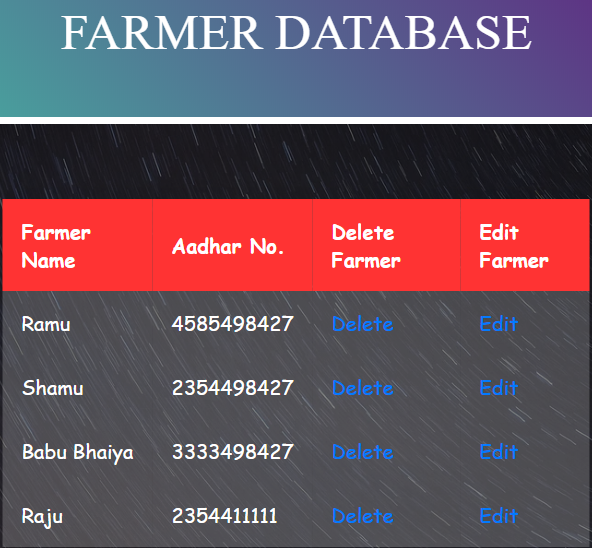
Entity Relationship Diagram



Select Statements using Different Functions

$stmt = $pdo->query("SELECT customer.name,customer.aadhar,customer\_id FROM customer");

$stmt = $pdo->query("SELECT farmer.name,farmer.aadhar,farmer\_id FROM farmer");

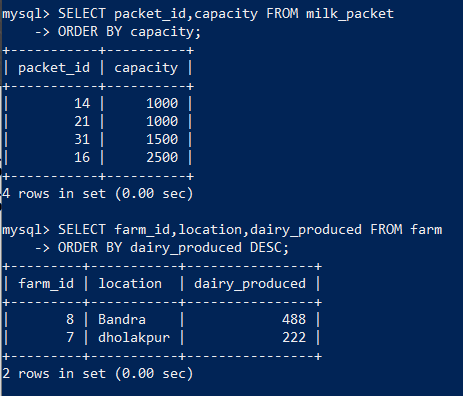
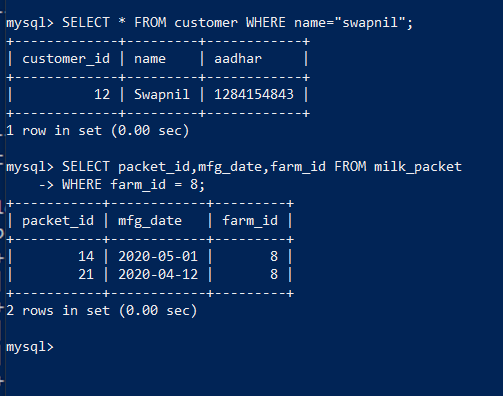
 

SELECT \* FROM milk\_packet ORDER BY capacity;

SELECT \* FROM farm ORDER BY dairy\_produced DESC;

SELECT \* FROM customer WHERE name="swapnil";

SELECT packet\_id,mfg\_date,farm\_id FROM milk\_packet WHERE farm\_id = 8;

Select Statements using Count and Group Functions

SELECT COUNT(farm\_id), dairy\_produced FROM farm GROUP BY location;

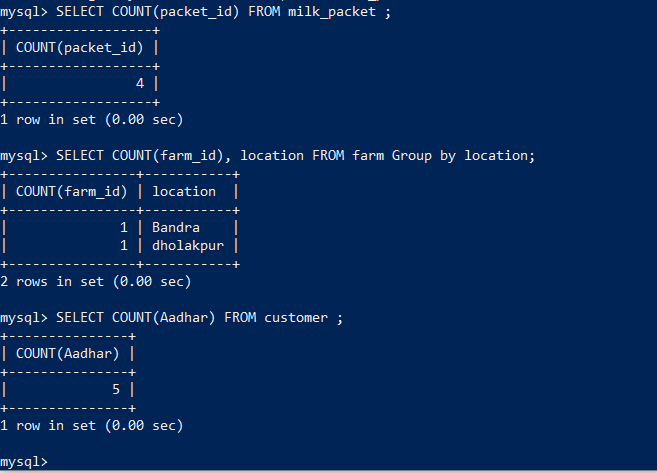
SELECT COUNT(packet\_id), mfg\_date FROM milk\_packet GROUP BY mfg\_date ORDER BY COUNT(packet\_id) DESC;



SELECT COUNT(packet\_id) FROM milk\_packet ;

mysql> SELECT COUNT(farm\_id), location FROM farm Group by location;

SELECT COUNT(Aadhar) FROM customer ;

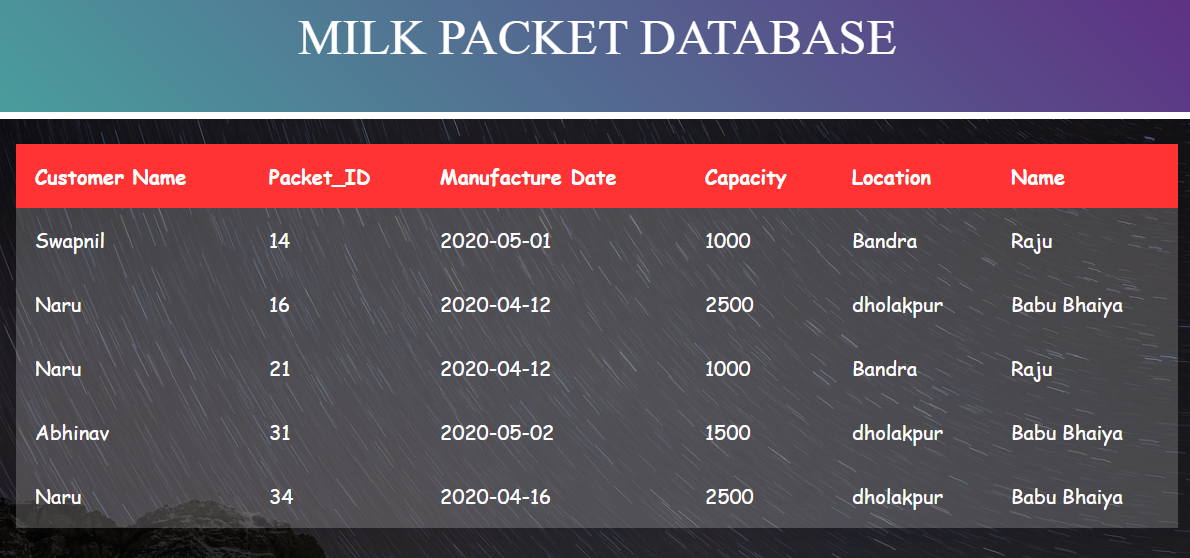


Select Statements using Different Joins

$stmt = $pdo->prepare("SELECT packet\_id,mfg\_date, capacity,location, farmer.name FROM milk\_packet JOIN customer JOIN farm JOIN farmer ON farm.farm\_id = farmer.farmer\_id and milk\_packet.farm\_id = farm.farm\_id and customer.customer\_id = milk\_packet.customer\_id WHERE customer.aadhar = :aad");

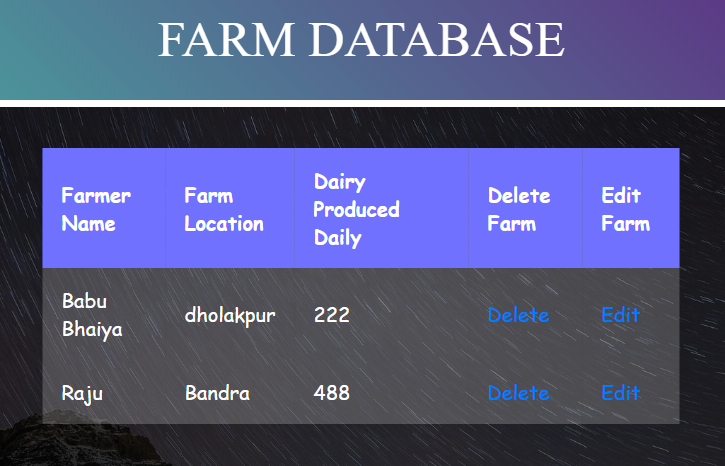
$stmt->execute(array(':aad' => $\_POST['Aadhar']));

SELECT customer.name,packet\_id,mfg\_date,capacity,location,farmer.name FROM milk\_packet JOIN customer JOIN farm JOIN farmer ON farm.farmer\_id = farmer.farmer\_id and milk\_packet.farm\_id = farm.farm\_id and customer.customer\_id = milk\_packet.customer\_id;



SELECT farmer.name,farm.location,farm.dairy\_produced,farm\_id FROM farm JOIN

farmer ON farm.farmer\_id = farmer.farmer\_id;



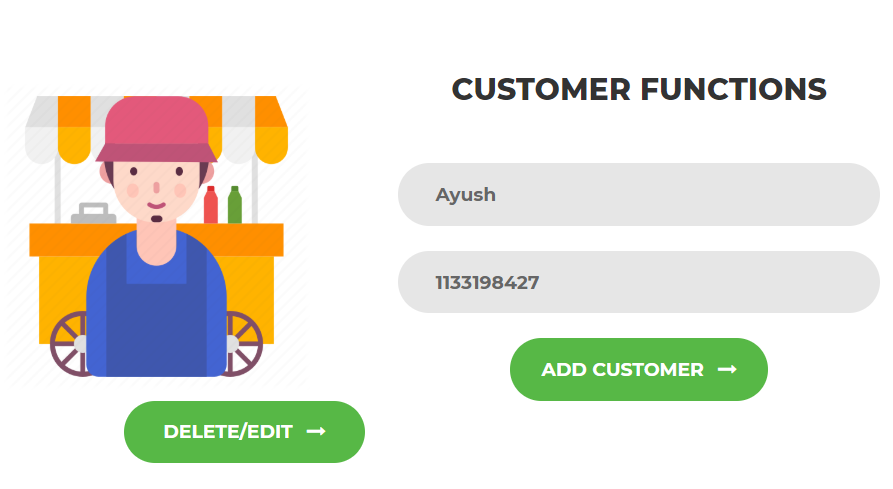
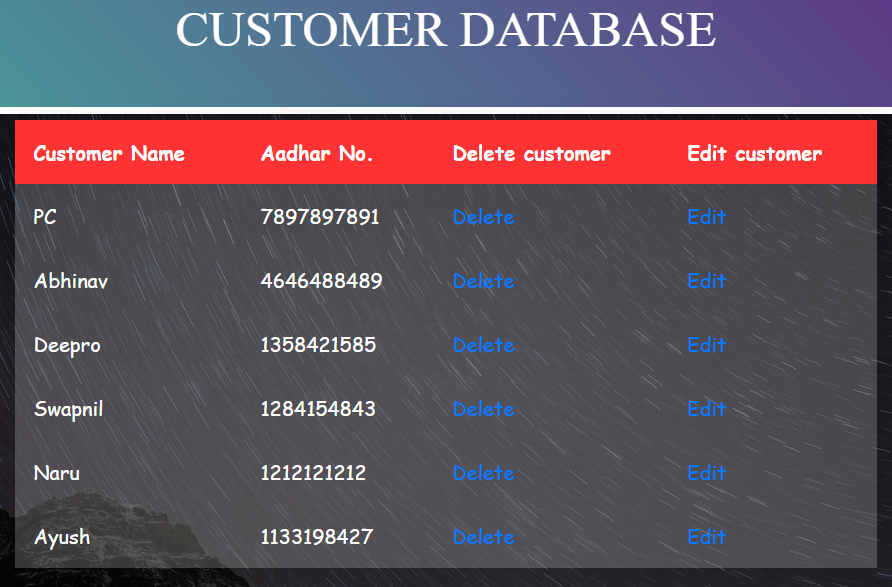
Insert Statement

$stmt = $pdo->prepare("INSERT INTO customer (name,aadhar) VALUES(:name,:aad)");

            $stmt->execute(array(':name' => $\_POST['name'],':aad' => $\_POST['Aadhar']));

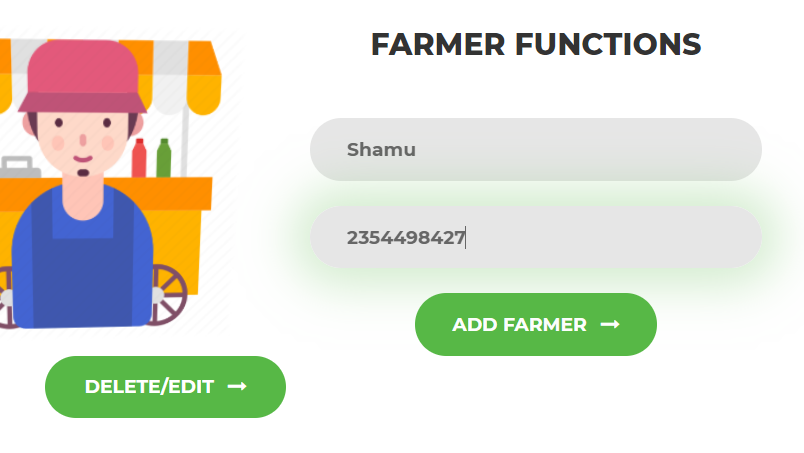
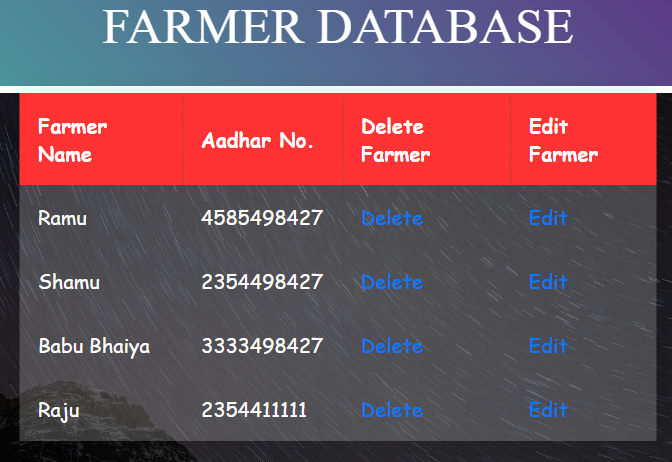
INSERT INTO customer(name,aadhar) VALUES("Swapnil",1429384427);

INSERT INTO customer(name,aadhar) VALUES("Ayush ",1133198427);

INSERT INTO farmer(name,aadhar) VALUES("Ramu",4585498427);

INSERT INTO farmer(name,aadhar) VALUES("Shamu",2354498427);

INSERT INTO farm(location,dairy\_produced,farmer\_id) VALUES("patna",987,1);

INSERT INTO farm(location,dairy\_produced,farmer\_id) VALUES("khorda",748,2);

INSERT INTO milk\_packet(capacity,mfg\_date,farm\_id,customer\_id) VALUES(2500,"2020-07-01",6,9);

INSERT INTO milk\_packet(capacity,mfg\_date,farm\_id,customer\_id) VALUES(1500,"2020-05-02",7,10);

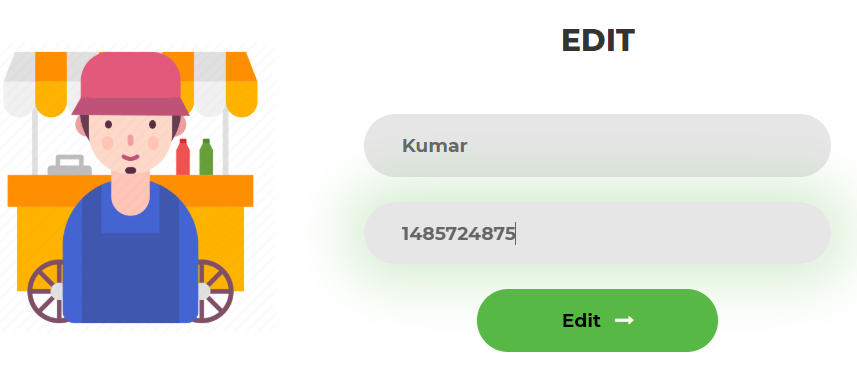
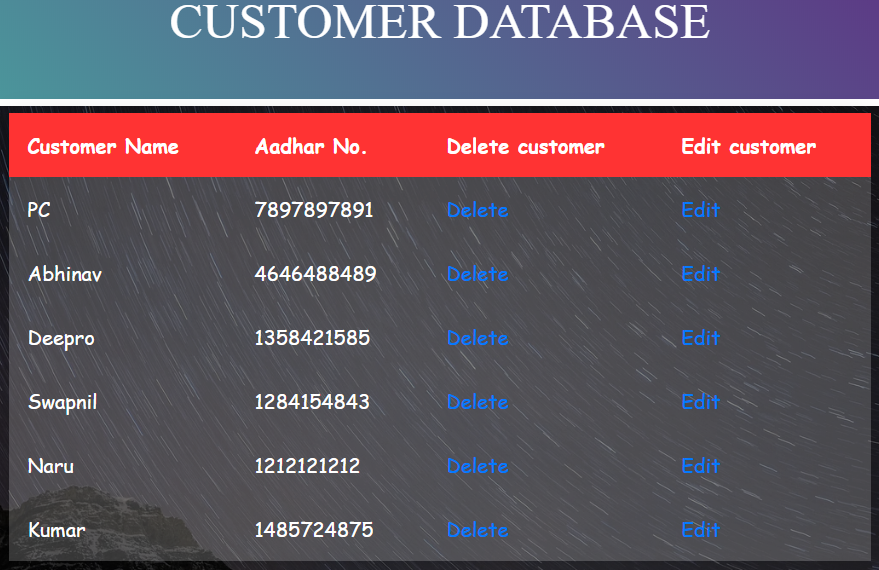
Update Statement

$stmt=$pdo->prepare("UPDATE customer SET name=:name,Aadhar=:aad WHERE customer\_id=:cid");

$stmt->execute(array(':name'=>$\_POST['name'],':aad'=>$\_POST['Aadhar'],':cid'=>

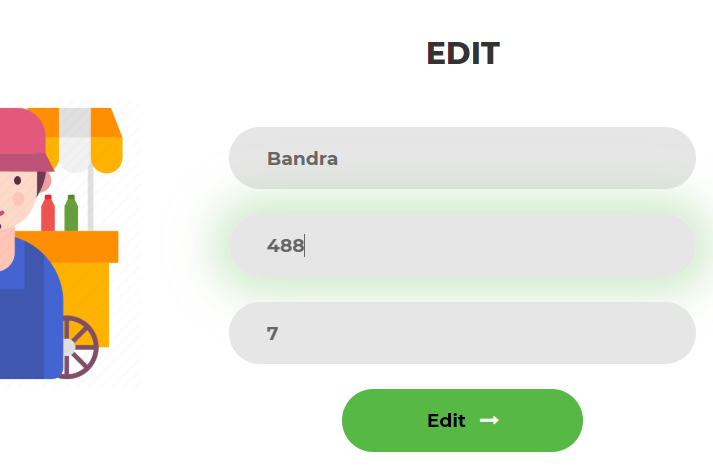
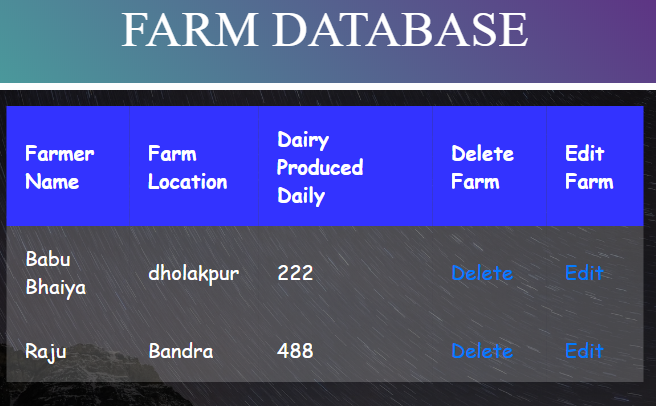
$\_POST['customer\_id']));

UPDATE customer SET name = 'Kumar', Aadhar=1485724875 WHERE customer\_id = 16;

UPDATE customer SET name = 'Priyajeet' WHERE Aadhar = 7897897891;

UPDATE farm SET location='Bandra',dairy\_produced = 488,farmer\_id = 7 WHERE farm\_id = 8;

UPDATE farmer SET name = 'Ramu' WHERE farmer\_id = :7;

UPDATE farmer SET name = 'Alok' WHERE Aadhar = 4758417812;

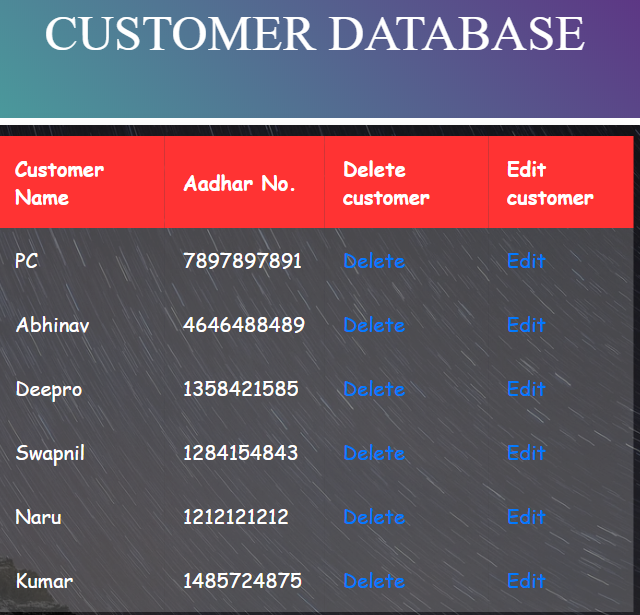
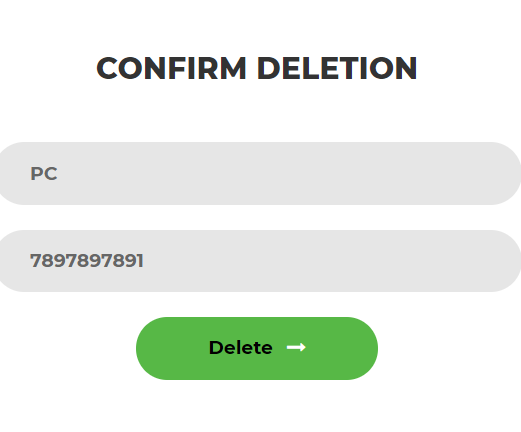
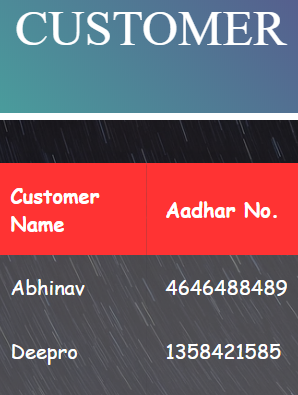
Delete Statement

$stmt = $pdo->prepare("DELETE FROM customer WHERE customer\_id = :cid");

            $stmt->execute(array(':cid' => $\_POST['customer\_id']));

DELETE FROM customer WHERE customer\_id = 7;

DELETE FROM customer WHERE Aadhar = 7897897891;

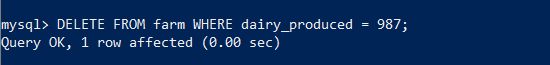
DELETE FROM farm WHERE farm\_id = 7;



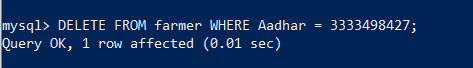
DELETE FROM farm WHERE location = 'Bandra';



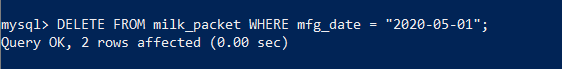
DELETE FROM farm WHERE dairy\_produced = 987;



DELETE FROM farmer WHERE Aadhar = 3333498427;



DELETE FROM milk\_packet WHERE mfg\_date = "2020-05-02";



Thank you