```
CREATE TABLE Customer (
  Customer_ID INT NOT NULL,
  Fname VARCHAR(255) NOT NULL,
  Lname VARCHAR(255) NOT NULL,
  Email VARCHAR(255),
  Phone VARCHAR(10),
  Address TEXT,
  PRIMARY KEY(Customer_ID)
);
CREATE TABLE Restaurant (
  Restaurant_ID INT NOT NULL,
  Name VARCHAR(255) NOT NULL,
  Cuisine VARCHAR(255),
  Email VARCHAR(255),
  Phone VARCHAR(10),
  Address TEXT,
  Rating DECIMAL(3, 2),
  PRIMARY KEY(Restaurant ID)
);
CREATE TABLE Driver (
  Driver_ID INT NOT NULL,
  Fname VARCHAR(255) NOT NULL,
  Lname VARCHAR(255) NOT NULL,
  License VARCHAR(8) NOT NULL,
  Phone VARCHAR(10),
  Number_of_orders_completed INT,
  Rating DECIMAL(3, 2),
  PRIMARY KEY(Driver_ID)
);
```

```
CREATE TABLE Vehicle (
  Vehicle_ID INT NOT NULL,
  Vehicle_Number VARCHAR(11) NOT NULL,
  Vehicle_Type VARCHAR(30),
  PRIMARY KEY(Vehicle_ID)
);
CREATE TABLE Menu (
  Menu_Item_ID INT NOT NULL,
  Restaurant_ID INT NOT NULL,
  Menu_Item_Name VARCHAR(255) NOT NULL,
  Menu_Item_Description TEXT,
  Menu_Item_Price DECIMAL(8, 2),
  PRIMARY KEY(Menu_Item_ID),
  FOREIGN KEY (Restaurant_ID) REFERENCES Restaurant(Restaurant_ID)
);
CREATE TABLE Item_Ordered (
  Item_Ordered_ID INT NOT NULL,
  Menu_Item_ID INT NOT NULL,
  Quantity INT,
  PRIMARY KEY(Item_Ordered_ID),
  FOREIGN KEY (Menu_Item_ID) REFERENCES Menu(Menu_Item_ID)
);
CREATE TABLE DriverVehicle (
  DriverVehicle_ID INT NOT NULL,
  Driver_ID INT NOT NULL,
  Vehicle ID INT NOT NULL,
  StartDate DATE,
  EndDate DATE,
  PRIMARY KEY(DriverVehicle_ID),
  FOREIGN KEY (Driver_ID) REFERENCES Driver(Driver_ID),
  FOREIGN KEY (Vehicle_ID) REFERENCES Vehicle(Vehicle_ID)
);
```

```
CREATE TABLE Payment (
  Payment_ID INT NOT NULL,
  Payment_Method VARCHAR(),
  Customer_ID INT NOT NULL,
  PRIMARY KEY(Payment_ID),
  FOREIGN KEY (Customer_ID) REFERENCES Customer(Customer_ID)
);
CREATE TABLE Order_Invoice (
  Order_ID INT NOT NULL,
  Item_Ordered_ID INT NOT NULL,
  Customer_ID INT NOT NULL,
  Restaurant_ID INT NOT NULL,
  Driver_ID INT NOT NULL,
  Payment_ID INT NOT NULL,
  Order_Date DATE,
  Amount_Paid DECIMAL(10, 2),
  PRIMARY KEY(ORDER_ID),
  FOREIGN KEY (Item_Ordered_ID) REFERENCES Item_Ordered(Item_Ordered_ID),
  FOREIGN KEY (Customer_ID) REFERENCES Customer(Customer_ID),
  FOREIGN KEY (Restaurant_ID) REFERENCES Restaurant(Restaurant_ID),
  FOREIGN KEY (Driver_ID) REFERENCES Driver(Driver_ID),
  FOREIGN KEY (Payment_ID) REFERENCES Payment(Payment_ID)
```

);

Insert records into the Customer table

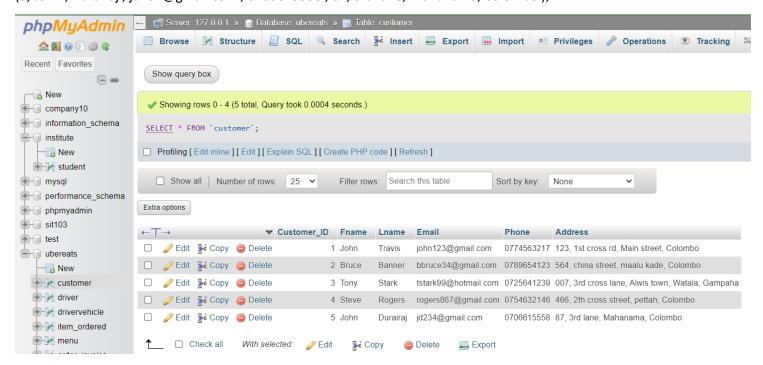
INSERT INTO `customer`(`Customer_ID`, `Fname`, `Lname`, `Email`, `Phone`, `Address`) VALUES (1,'John','Travis','john123@gmail.com','0774563217','123, 1st cross rd, Main street, Colombo');

INSERT INTO `customer`(`Customer_ID`, `Fname`, `Lname`, `Email`, `Phone`, `Address`) VALUES (2,'Bruce','Banner','bbruce34@gmail.com','0789654123','564, china street, maalu kade, Colombo');

INSERT INTO `customer`(`Customer_ID`, `Fname`, `Lname`, `Email`, `Phone`, `Address`) VALUES (3,'Tony','Stark','tstark99@hotmail.com','0725641239','007, 3rd cross lane, Alwis town, Watala, Gampaha');

INSERT INTO `customer`(`Customer_ID`, `Fname`, `Lname`, `Email`, `Phone`, `Address`) VALUES (4,'Steve','Rogers','rogers867@gmail.com','0754632146','466, 2th cross street, pettah, Colombo');

INSERT INTO `customer`(`Customer_ID`, `Fname`, `Lname`, `Email`, `Phone`, `Address`) VALUES (5,'John','Durairaj','jd234@gmail.com','0706615558','87, 3rd lane, Mahanama, Colombo');



Insert records into the Driver table

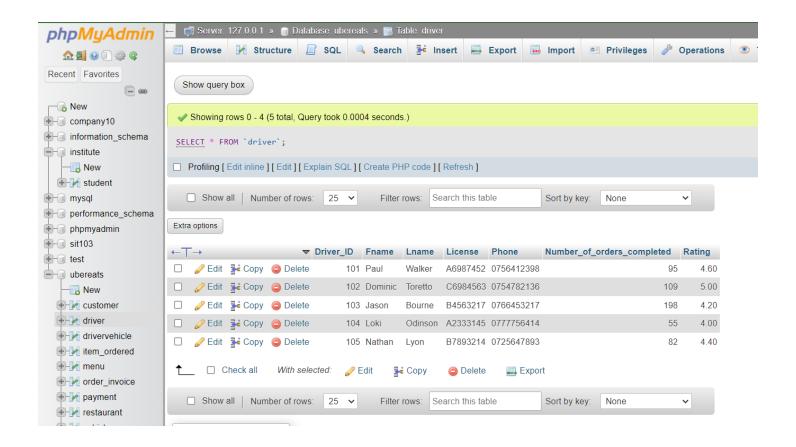
INSERT INTO `driver`(`Driver_ID`, `Fname`, `License`, `Phone`, `Number_of_orders_completed`, `Rating`) VALUES (101,'Paul','Walker','A6987452','0756412398','95','4.6');

INSERT INTO `driver`(`Driver_ID`, `Fname`, `License`, `Phone`, `Number_of_orders_completed`, `Rating`) VALUES (102,'Dominic','Toretto','C6984563','0754782136','109','5.0');

INSERT INTO `driver`(`Driver_ID`, `Fname`, `License`, `Phone`, `Number_of_orders_completed`, `Rating`) VALUES (103,'Jason','Bourne','B4563217','0766453217','198','4.2');

INSERT INTO `driver`(`Driver_ID`, `Fname`, `License`, `Phone`, `Number_of_orders_completed`, `Rating`) VALUES (104,'Loki','Odinson','A2333145','0777756414','55','4.0');

INSERT INTO `driver`(`Driver_ID`, `Fname`, `License`, `Phone`, `Number_of_orders_completed`, `Rating`) VALUES (105,'Nathan','Lyon','B7893214','0725647893','82','4.4');



Insert records into the Vehicle table

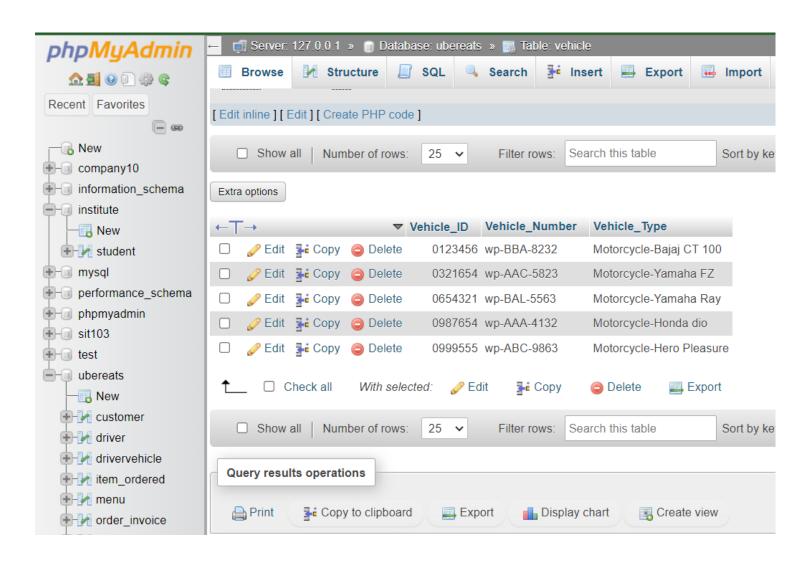
INSERT INTO `vehicle`(`Vehicle_ID`, `Vehicle_Number`, `Vehicle_Type`) VALUES (0654321,'wp-BAL-5563','Motorcycle-Yamaha Ray');

INSERT INTO `vehicle`(`Vehicle_ID`, `Vehicle_Number`, `Vehicle_Type`) VALUES (0987654,'wp-AAA-4132','Motorcycle-Honda dio');

INSERT INTO `vehicle`(`Vehicle_ID`, `Vehicle_Number`, `Vehicle_Type`) VALUES (0999555,'wp-ABC-9863','Motorcycle-Hero Pleasure');

INSERT INTO `vehicle`(`Vehicle_ID`, `Vehicle_Number`, `Vehicle_Type`) VALUES (0321654, 'wp-AAC-5823', 'Motorcycle-Yamaha FZ');

INSERT INTO `vehicle`(`Vehicle_ID`, `Vehicle_Number`, `Vehicle_Type`) VALUES (0123456,'wp-BBA-8232','Motorcycle-Bajaj CT 100 ');



Insert records into the DriverVehicle table

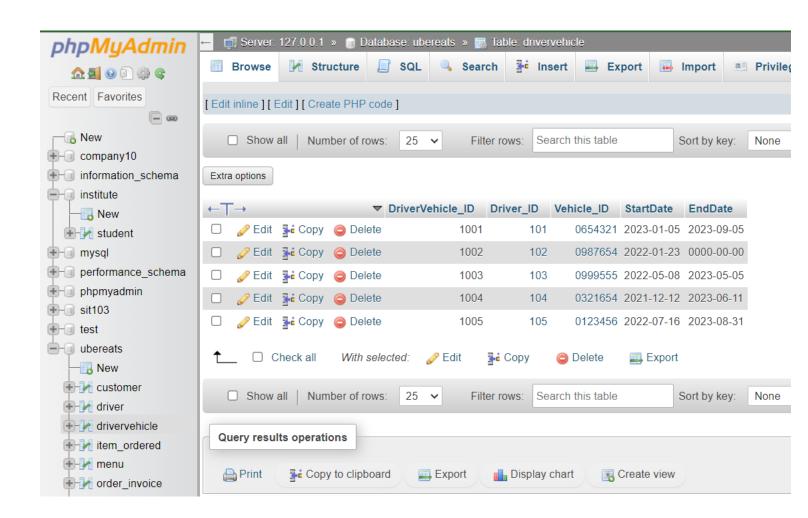
INSERT INTO `drivervehicle`(`DriverVehicle_ID`, `Driver_ID`, `Vehicle_ID`, `StartDate`, `EndDate`) VALUES (1001,101,0654321,'2023-01-05','2023-09-05');

INSERT INTO `drivervehicle`(`DriverVehicle_ID`, `Driver_ID`, `Vehicle_ID`, `StartDate`, `EndDate`) VALUES (1002,102,0987654,'2022-01-23','2023-09-31');

INSERT INTO `drivervehicle`(`DriverVehicle_ID`, `Driver_ID`, `Vehicle_ID`, `StartDate`, `EndDate`) VALUES (1003,103,0999555,'2022-05-08','2023-05-05');

INSERT INTO `drivervehicle`(`DriverVehicle_ID`, `Driver_ID`, `Vehicle_ID`, `StartDate`, `EndDate`) VALUES (1004,104,0321654,'2021-12-12','2023-06-11');

INSERT INTO `drivervehicle`(`DriverVehicle_ID`, `Driver_ID`, `Vehicle_ID`, `StartDate`, `EndDate`) VALUES (1005,105,0123456,'2022-07-16','2023-08-31');



Insert records into the Restaurant table

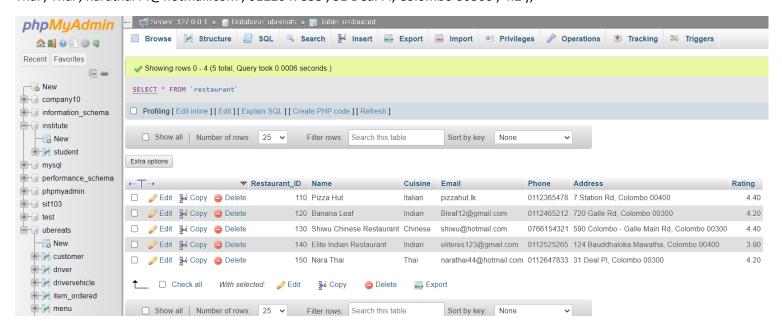
INSERT INTO `restaurant`(`Restaurant_ID`, `Name`, `Cuisine`, `Email`, `Phone`, `Address`, `Rating`) VALUES (000110,'Pizza Hut','Italian','pizzahut.lk','0112365478','7 Station Rd, Colombo 00400','4.4');

INSERT INTO `restaurant`(`Restaurant_ID`, `Name`, `Cuisine`, `Email`, `Phone`, `Address`, `Rating`) VALUES (000120,'Banana Leaf','Indian','Bleaf12@gmail.com','0112465212','720 Galle Rd, Colombo 00300','4.0');

INSERT INTO `restaurant`(`Restaurant_ID`, `Name`, `Cuisine`, `Email`, `Phone`, `Address`, `Rating`) VALUES (000130,'Shiwu Chinese Restaurant','Chinese','shiwu@hotmail.com','0766154321','590 Colombo - Galle Main Rd, Colombo 00300','4.4');

INSERT INTO `restaurant`(`Restaurant_ID`, `Name`, `Cuisine`, `Email`, `Phone`, `Address`, `Rating`) VALUES (000140, 'Elite Indian Restaurant', 'Indian', 'eliteres123@gmail.com', '0112525265', '124 Bauddhaloka Mawatha, Colombo 00400', '3.9');

INSERT INTO `restaurant`(`Restaurant_ID`, `Name`, `Cuisine`, `Email`, `Phone`, `Address`, `Rating`) VALUES (000150,'Nara Thai','Thai','narathai44@hotmail.com','0112647833','31 Deal Pl, Colombo 00300','4.2');



Insert records into the Menu table

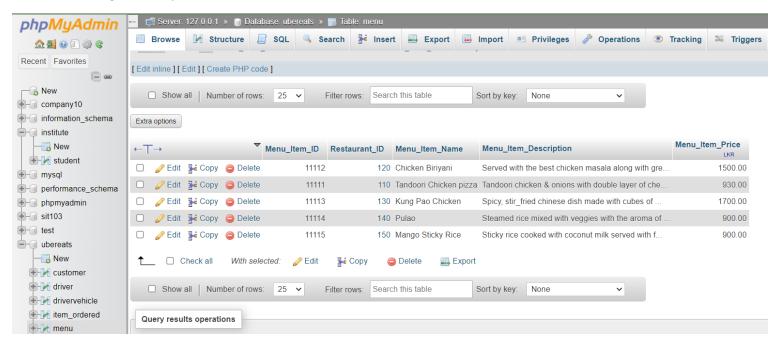
INSERT INTO `menu`(`Menu_Item_ID`, `Restaurant_ID`, `Menu_Item_Name`, `Menu_Item_Description`, `Menu_Item_Price`) VALUES (0011111,000110,'Tandoori Chicken pizza','Tandoori chicken & onions with double layer of cheese','930');

INSERT INTO `menu`(`Menu_Item_ID`, `Restaurant_ID`, `Menu_Item_Name`, `Menu_Item_Description`, `Menu_Item_Price`) VALUES (0011112,000120,'Chicken Biriyani','Served with the best chicken masala along with green peas & cashew curry, maldives fish sambol, fried egg, salad and gravy on a banana leaf','1500');

INSERT INTO `menu`(`Menu_Item_ID`, `Restaurant_ID`, `Menu_Item_Name`, `Menu_Item_Description`, `Menu_Item_Price`) VALUES (0011113,000130,'Kung Pao Chicken','Spicy, stir_fried chinese dish made with cubes of chicken, peanuts, vegetables, and chilli peppers','1700');

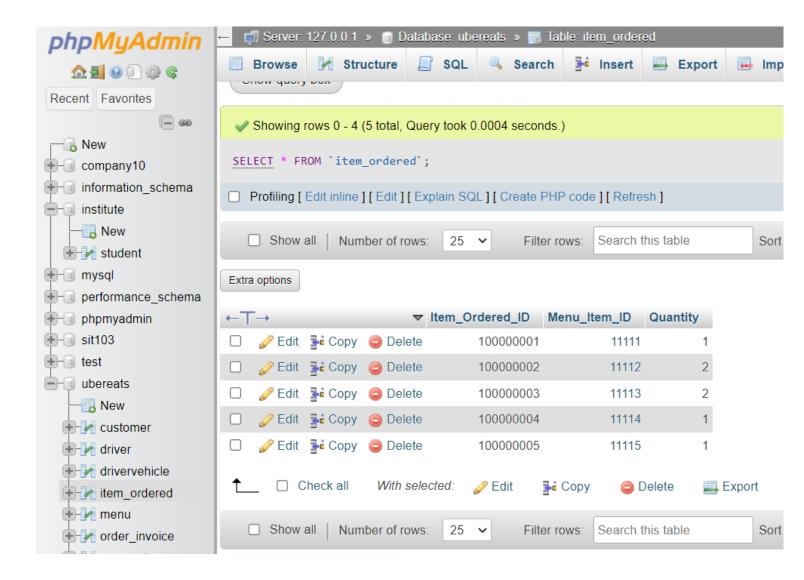
INSERT INTO `menu`(`Menu_Item_ID`, `Restaurant_ID`, `Menu_Item_Name`, `Menu_Item_Description`, `Menu_Item_Price`) VALUES (0011114,000140, 'Pulao', 'Steamed rice mixed with veggies with the aroma of ghee', '900');

INSERT INTO `menu`(`Menu_Item_ID`, `Restaurant_ID`, `Menu_Item_Name`, `Menu_Item_Description`, `Menu_Item_Price`) VALUES (0011115,000150, 'Mango Sticky Rice', 'Sticky rice cooked with coconut milk served with fresh sliced mangoes on top', '900');



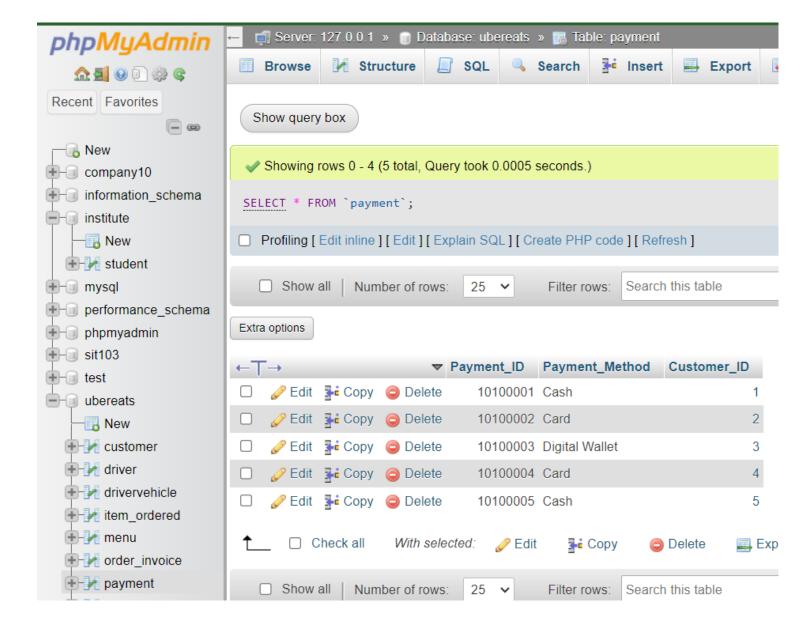
Insert records into the ItemOrdered table

INSERT INTO `item_ordered`(`Item_Ordered_ID`, `Menu_Item_ID`, `Quantity`) VALUES (100000001,11111,1);
INSERT INTO `item_ordered`(`Item_Ordered_ID`, `Menu_Item_ID`, `Quantity`) VALUES (100000002,11112,2);
INSERT INTO `item_ordered`(`Item_Ordered_ID`, `Menu_Item_ID`, `Quantity`) VALUES (100000003,11113,2);
INSERT INTO `item_ordered`(`Item_Ordered_ID`, `Menu_Item_ID`, `Quantity`) VALUES (100000004,11114,1);
INSERT INTO `item_ordered`(`Item_Ordered_ID`, `Menu_Item_ID`, `Quantity`) VALUES (100000005,11115,1);



Insert records into the Payment table

```
INSERT INTO `payment`(`Payment_ID`, `Payment_Method`, `Customer_ID`) VALUES (10100001,'Cash',1);
INSERT INTO `payment`(`Payment_ID`, `Payment_Method`, `Customer_ID`) VALUES (10100002,'Card',2);
INSERT INTO `payment`(`Payment_ID`, `Payment_Method`, `Customer_ID`) VALUES (10100003,'Digital Wallet',3);
INSERT INTO `payment`(`Payment_ID`, `Payment_Method`, `Customer_ID`) VALUES (10100004,'Card',4);
INSERT INTO `payment`(`Payment_ID`, `Payment_Method`, `Customer_ID`) VALUES (10100005,'Cash',5);
```



Insert records into the Order_Invoice table

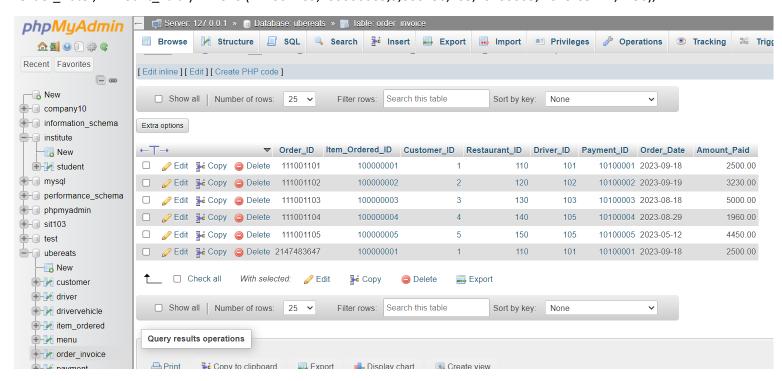
INSERT INTO `order_invoice`(`Order_ID`, `Item_Ordered_ID`, `Customer_ID`, `Restaurant_ID`, `Driver_ID`, `Payment_ID`, `Order_Date`, `Amount_Paid`) VALUES (111001101,100000001,1,000110,101,01000001,'2023-09-18',2500);

INSERT INTO `order_invoice`(`Order_ID`, `Item_Ordered_ID`, `Customer_ID`, `Restaurant_ID`, `Driver_ID`, `Payment_ID`, `Order_Date`, `Amount_Paid`) VALUES (111001102,100000002,2,000120,102,10100002,'2023-09-19',3230);

INSERT INTO `order_invoice`(`Order_ID`, `Item_Ordered_ID`, `Customer_ID`, `Restaurant_ID`, `Driver_ID`, `Payment_ID`, `Order_Date`, `Amount_Paid`) VALUES (111001103,100000003,3,000130,103,10100003,'2023-08-18',5000);

INSERT INTO `order_invoice`(`Order_ID`, `Item_Ordered_ID`, `Customer_ID`, `Restaurant_ID`, `Driver_ID`, `Payment_ID`, `Order_Date`, `Amount_Paid`) VALUES (111001104,100000004,4,000140,104,101000004,'2023-08-29',1960);

INSERT INTO `order_invoice`(`Order_ID`, `Item_Ordered_ID`, `Customer_ID`, `Restaurant_ID`, `Driver_ID`, `Payment_ID`, `Order_Date`, `Amount_Paid`) VALUES (111001105,100000005,5,000150,105,10100005,'2023-05-12',4450);

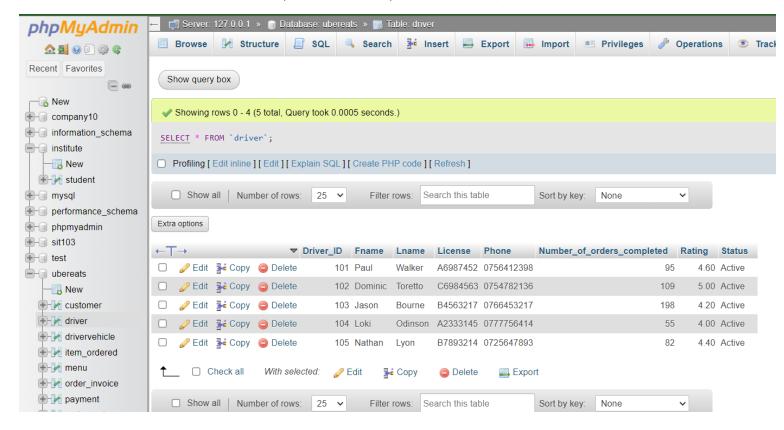


3.

I'm going to add a new column to the driver table. The name of the attribute is "Status", the data type will be ENUM. It will contain two values, 'Active' and 'Inactive'. The default value will be 'Active'.

SQL statement - ALTER TABLE driver

ADD COLUMN Status ENUM('Active', 'Inactive') DEFAULT 'Active';



4.

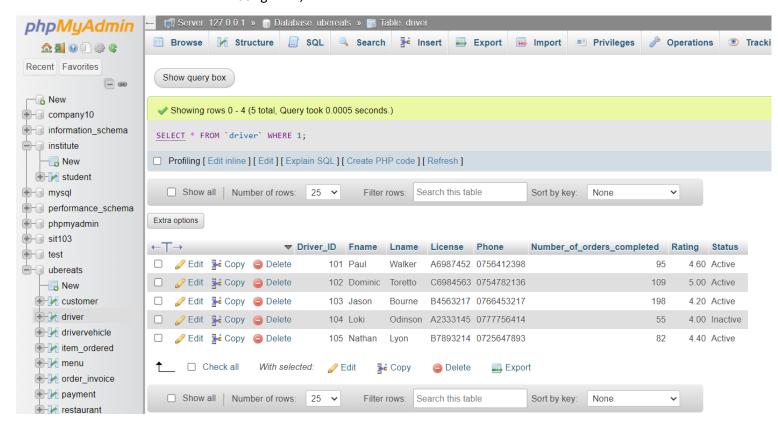
I'm going to use the condition Rating < 4.1 to filter out my rows in the driver table.

The new value given to that row will be stated as 'Inactive'.

The SQL statement used is - UPDATE driver

SET Status 'Inactive'

WHERE Rating < 4.1;

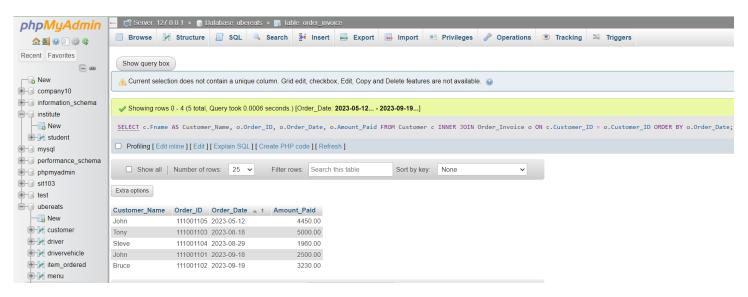


5.

a. I want to retrieve a list of customers along with their orders, sorted by order date performing an INNER JOIN between the Customer and Order_Invoice tables.

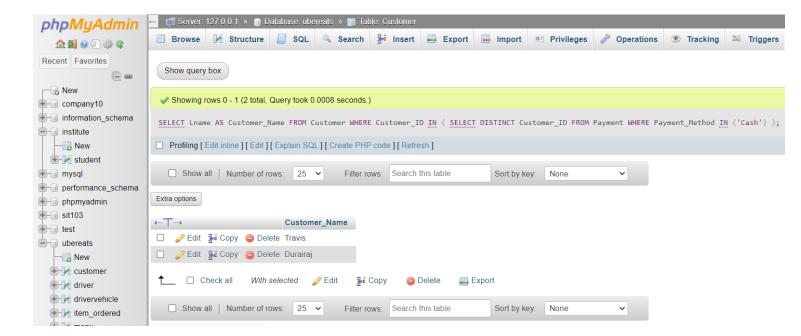
```
SQL statement —
SELECT

c.Fname AS Customer_Name,
o.Order_ID,
o.Order_Date,
o.Amount_Paid
FROM
Customer c
INNER JOIN
Order_Invoice o ON c.Customer_ID = o.Customer_ID
ORDER BY
o.Order_Date;
```

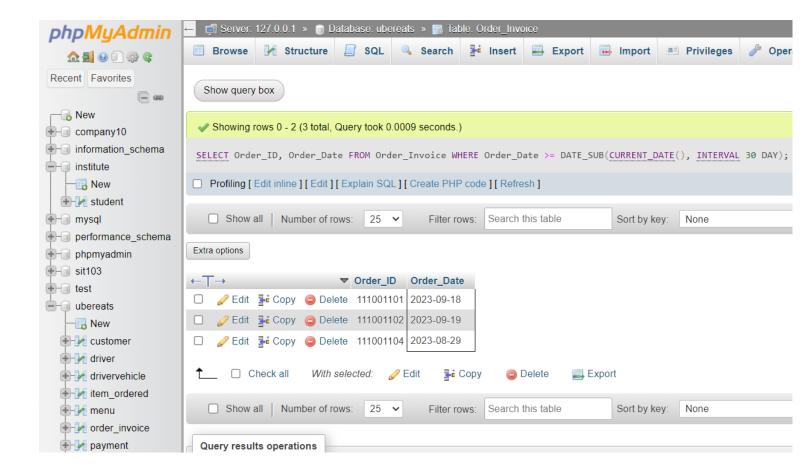


b. I want to retrieve names of the customer who have made payments using 'Cash'.
 SQL statement –

```
SELECT
Lname AS Customer_Name
FROM
Customer
WHERE
Customer_ID IN (
SELECT DISTINCT Customer_ID
FROM Payment
WHERE Payment_Method IN ('Cash')
);
```



c. I want to retrieve the orders placed in the last 30 days.
 SQL statement –
 SELECT
 Order_ID,
 Order_Date
 FROM
 Order_Invoice
 WHERE
 Order_Date >= DATE_SUB(CURRENT_DATE(), INTERVAL 30 DAY);



d. I want to create a view that displays order details, including customer names and restaurant names. SQL statement –

CREATE VIEW OrderDetails AS

SELECT

o.Order_ID,
c.Lname AS Customer_Name,
r.Name AS Restaurant_Name,
o.Order_Date,
o.Amount_Paid

FROM
Order_Invoice o

INNER JOIN
Customer c ON o.Customer_ID = c.Customer_ID

INNER JOIN
Restaurant r ON o.Restaurant_ID = r.Restaurant_ID;

