Data Management System Design
CS631

Instructor

Prof: Eren Canan

Project Title

Rent a Car

Phase-3

Course Number - CS631

Course Section – 007

Group Number – 9

Project Title

Rent a Car

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Business Requirements

Car rental rates are determined by the class of the car has two rental rates for eachclass: daily and weekly. The car model, description. Each car is uniquely identified by a vehicle identification number (VIN).

The process of renting a car is as follows.

A customer first makes a reservation with his Id by telephone prior to arriving atthe branch location to pick up the car. The Rent a Car service representative
takes the customer's name and address and the class of a vehicle and theperiod of rental (date in and out) that the customer desires.

The customer is informed of the rental rate. When the customer arrives at the branch location to pick up the car, the service representative first checks for areservation and, if a reservation exists, she draws up a rental agreement.

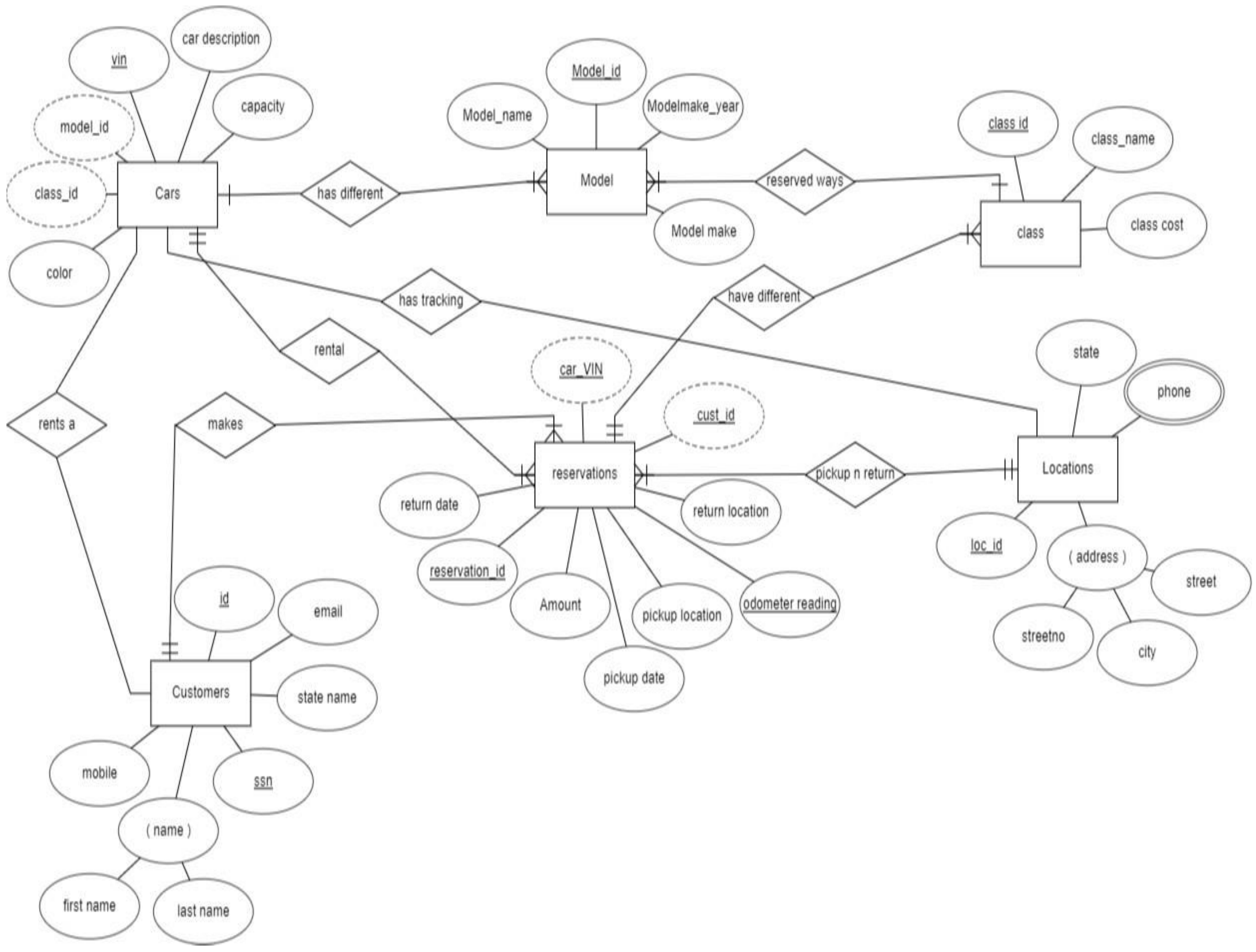
The service representative obtains other customer information, such as his
operator's license number and the customer's details like SSN , mail, contact If thecustomer has made a reservation, then the reservation information is used to assigna specific vehicle to the rental agreement. If the customer is a walk-in (no reservation), the service representative fills out the reservation information first as part of the process.

The rental agreement has a contract number that uniquely identifies it, the VIN number of the vehicle that is being rented, the current date and time for the rental to start . The customer is given a copy of the rental agreement along withthe keys to the car. This ends the activities at the

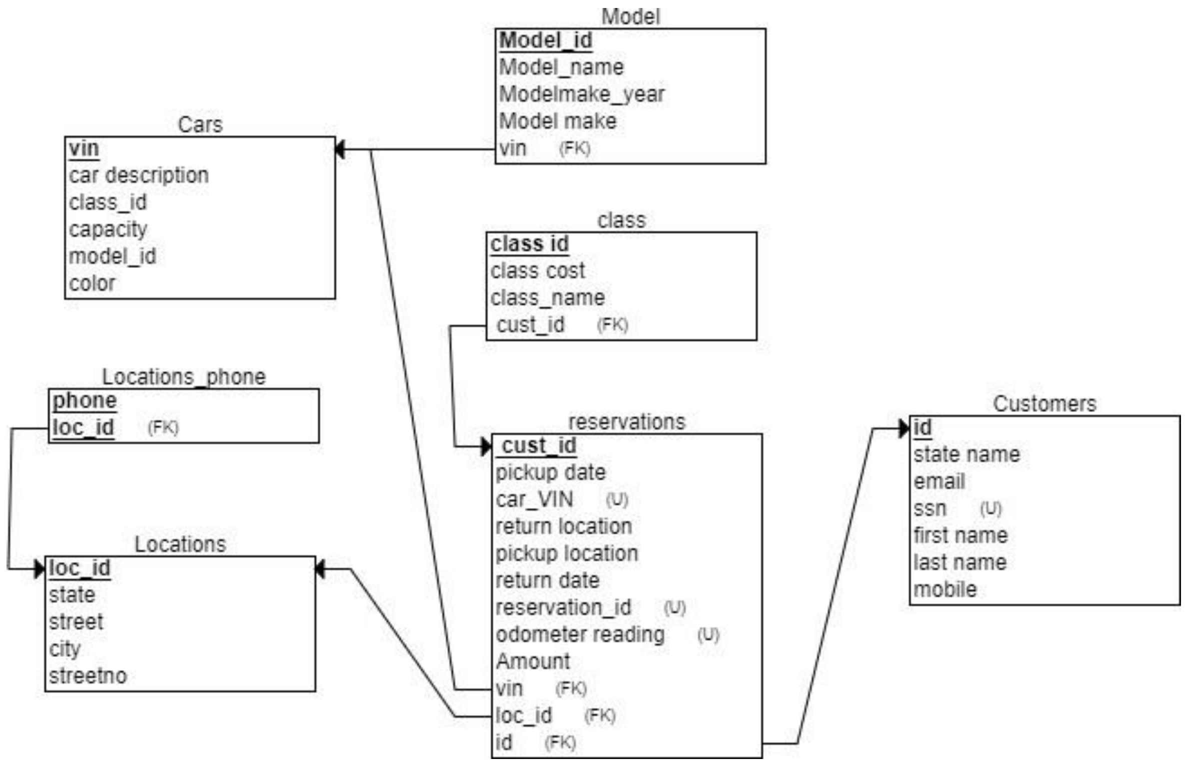
Time the vehicle is picked up.

After use, the car is returned to the branch location. Information that will befilled in when the car is returned is the date and time at which the rental ends and the editing odometer reading. When the rental agreement is completed,the actual cost of the rental is computed using the class rental rate, and the cost is charged to the customer's credit card . No other form of payment is accepted.

Entity-Relationship Diagram (ER):



Relational Schema :



Application Program Design:

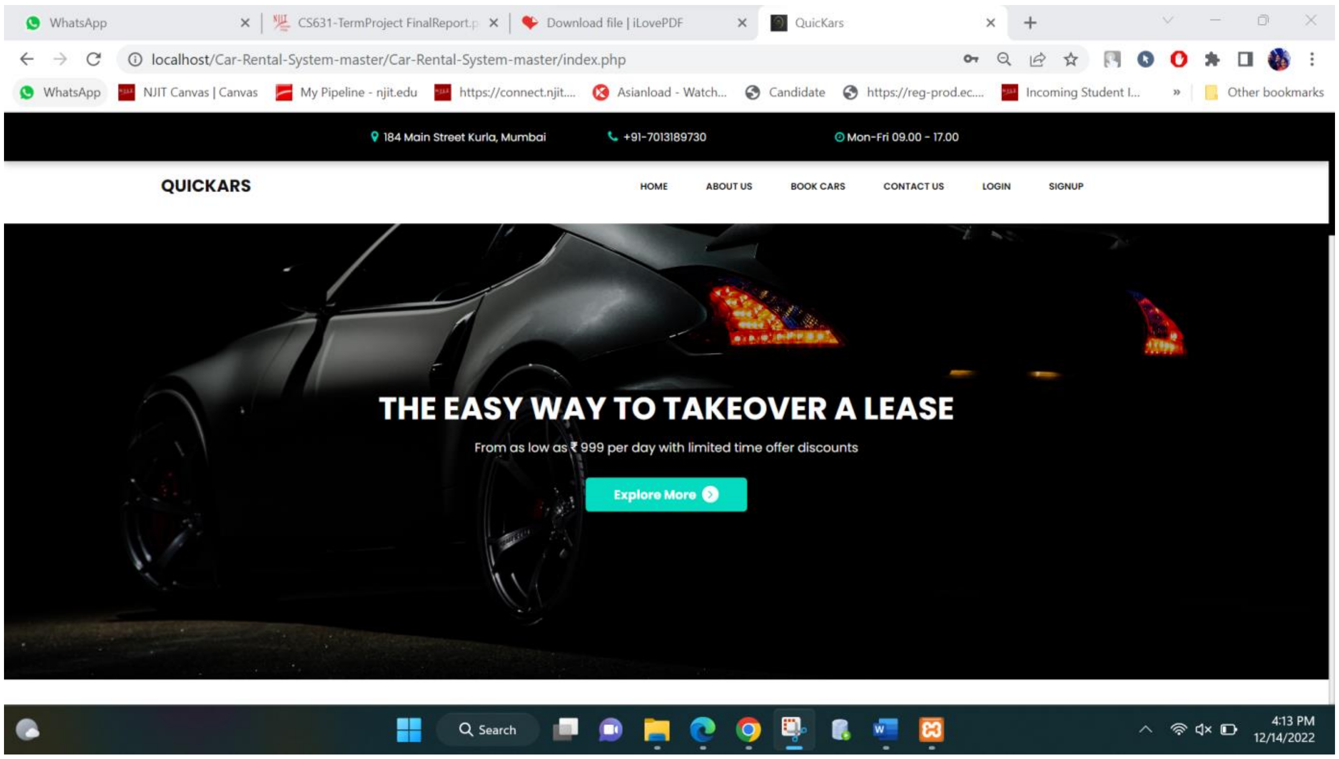

184 Main Street Kurla, Mumbai
+91-7013189730
Mon-Fri 09.00 - 17.00
QUICKARS
HOME
ABOUT US
BOOK CARS
CONTACT US
LOGIN
SIGNUP
THE EASY WAY TO TAKEOVER A LEASE
From as low as ₹ 999 per day with limited time offer discounts
Explore More

Fig.1 Main Page

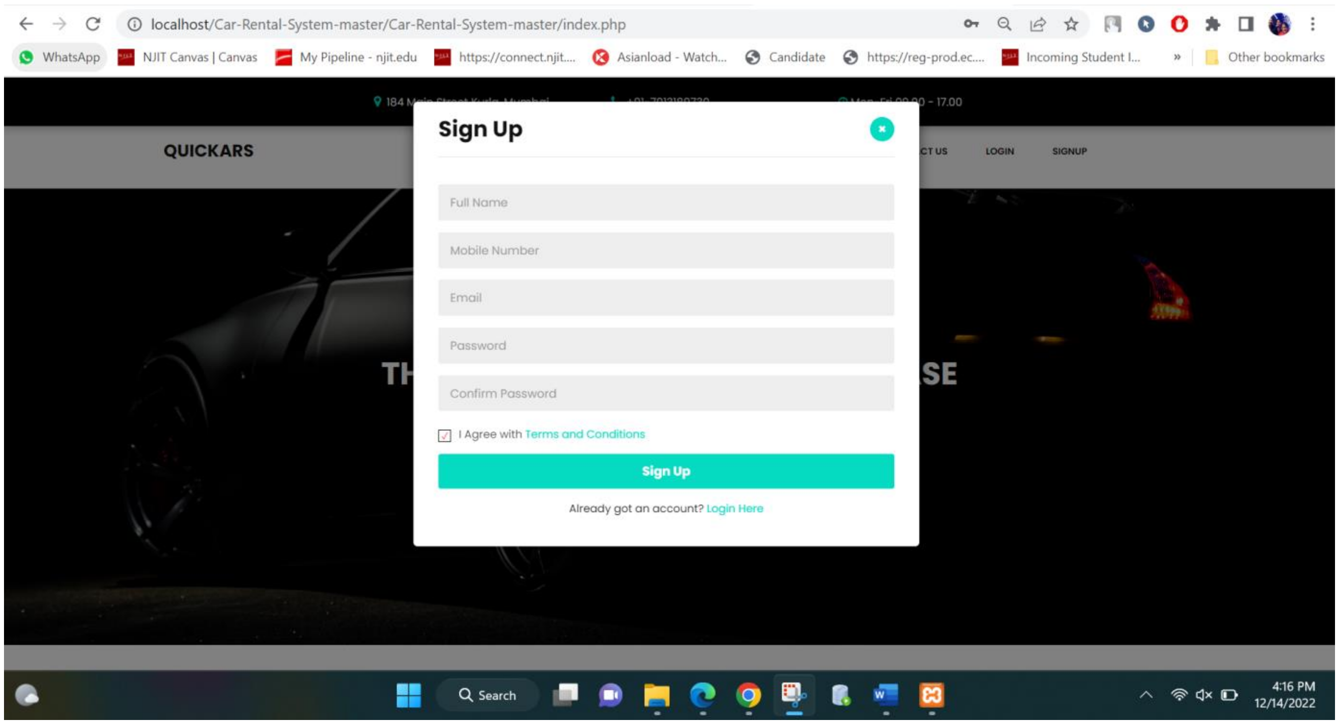

Sign Up
Full Name
Mobile Number
Email
Password
Confirm Password
I Agree with Terms and Conditions
Sign Up
Already got an account? Login Here

Fig.2 Sign up page

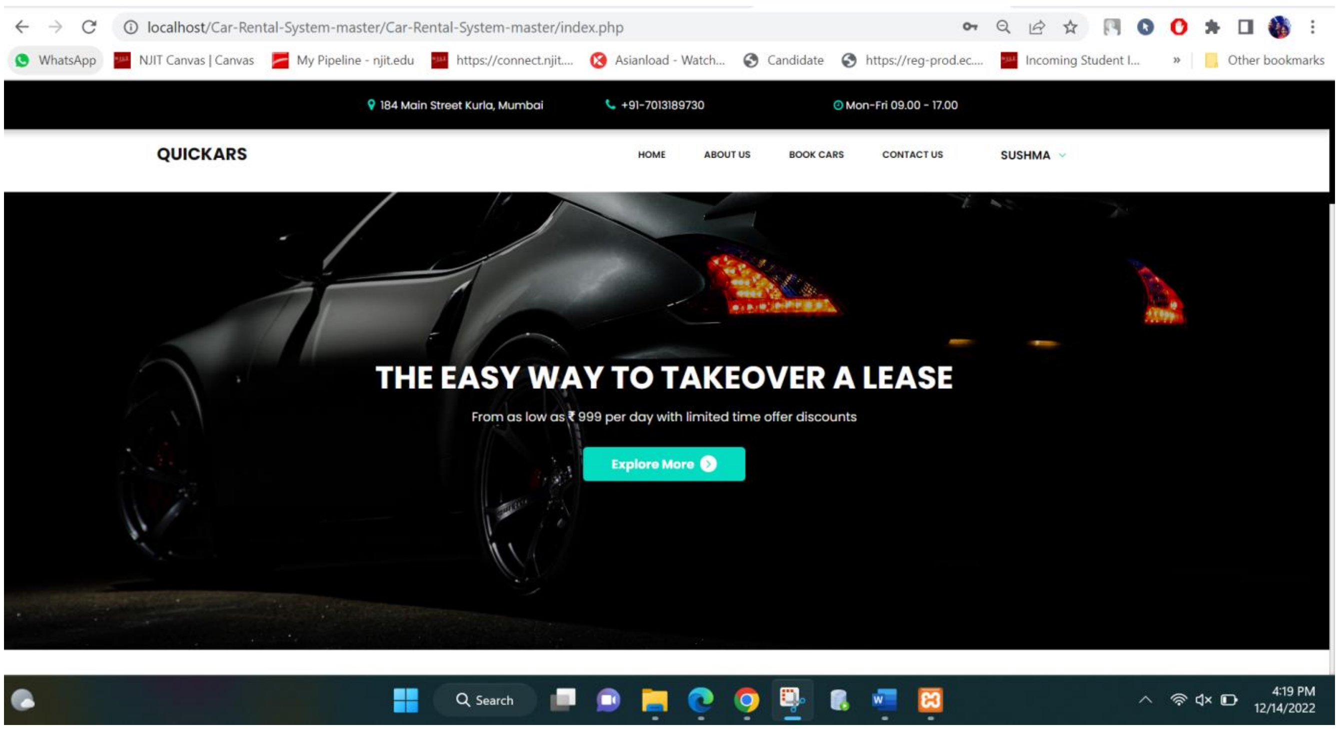

localhost/Car-Rental-System-master/Car-Rental-System-master/index.php
184 Main Street Kurla, Mumbai
+91-7013189730
Mon-Fri 09.00 - 17.00
QUICKARS
HOME
ABOUT US
BOOK CARS
CONTACT US
SUSHMA
THE EASY WAY TO TAKEOVER A LEASE
From as low as ₹ 999 per day with limited time offer discounts
Explore More

Fig.3 After Login Page

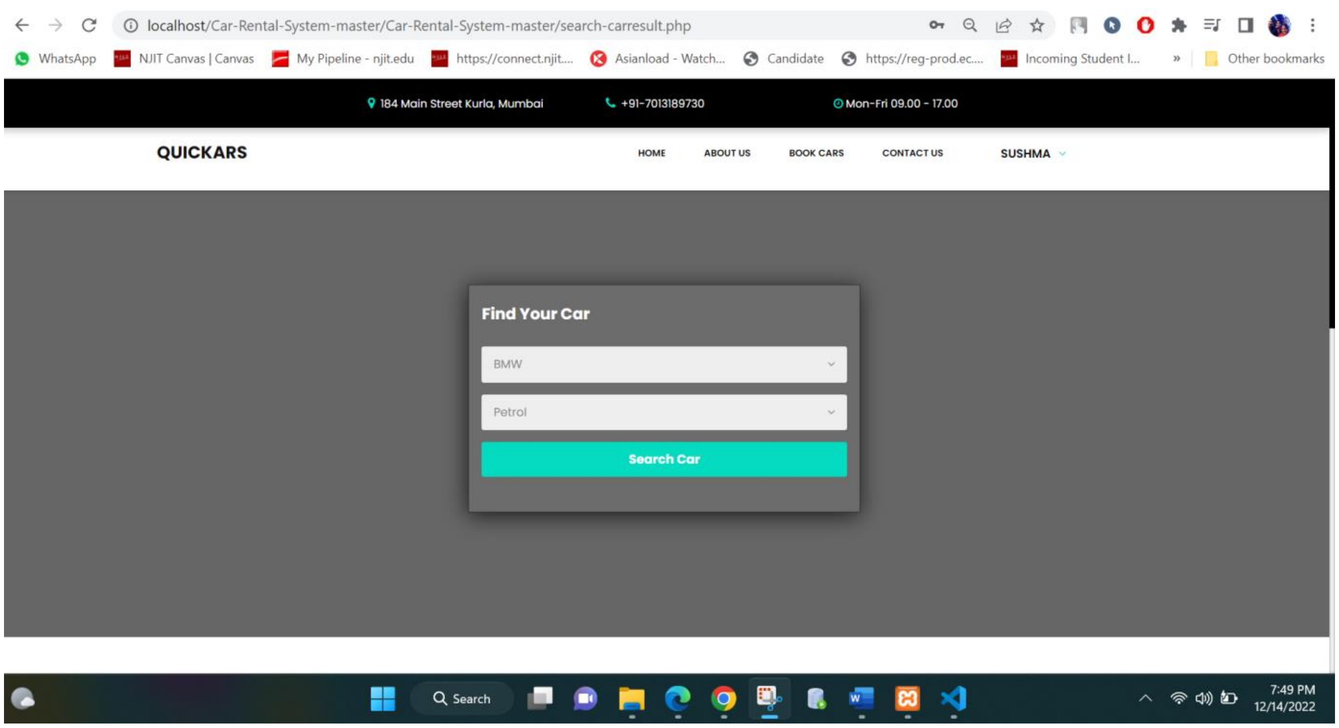
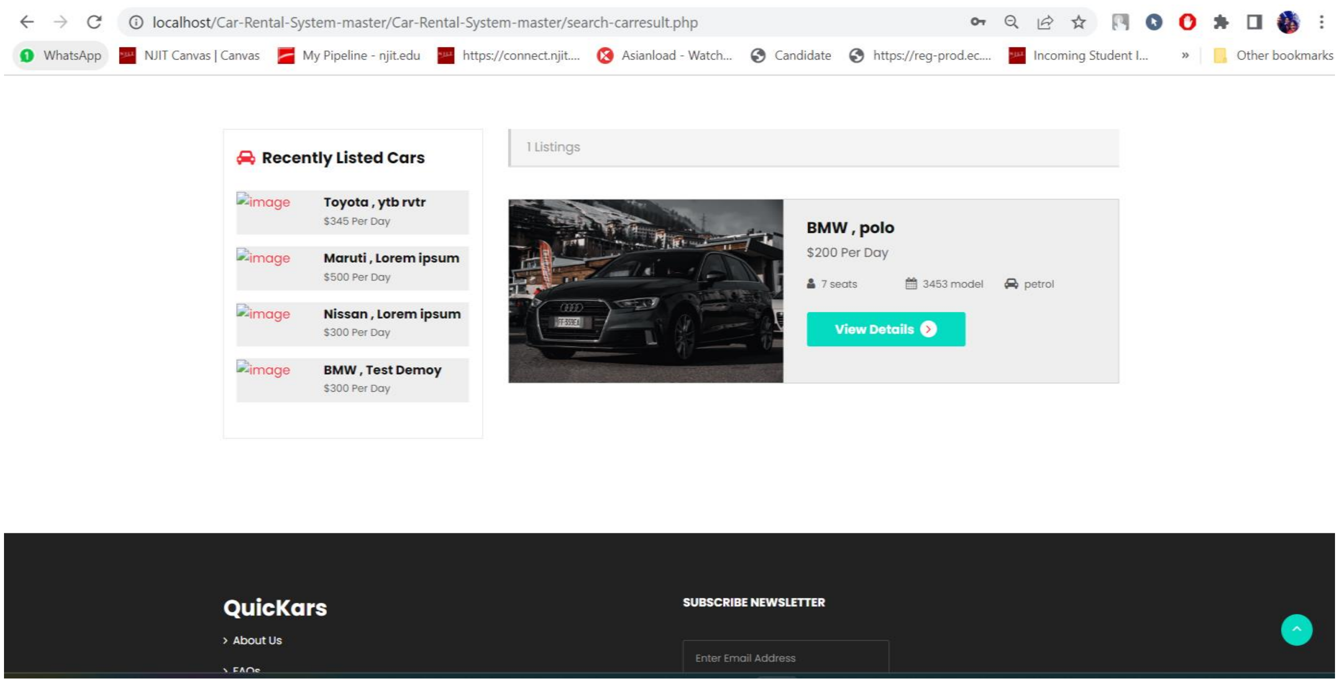


Fig.4 Searching for a car


localhost/Car-Rental-System-master/Car-Rental-System-master/search-carresult.php

Recently Listed Cars

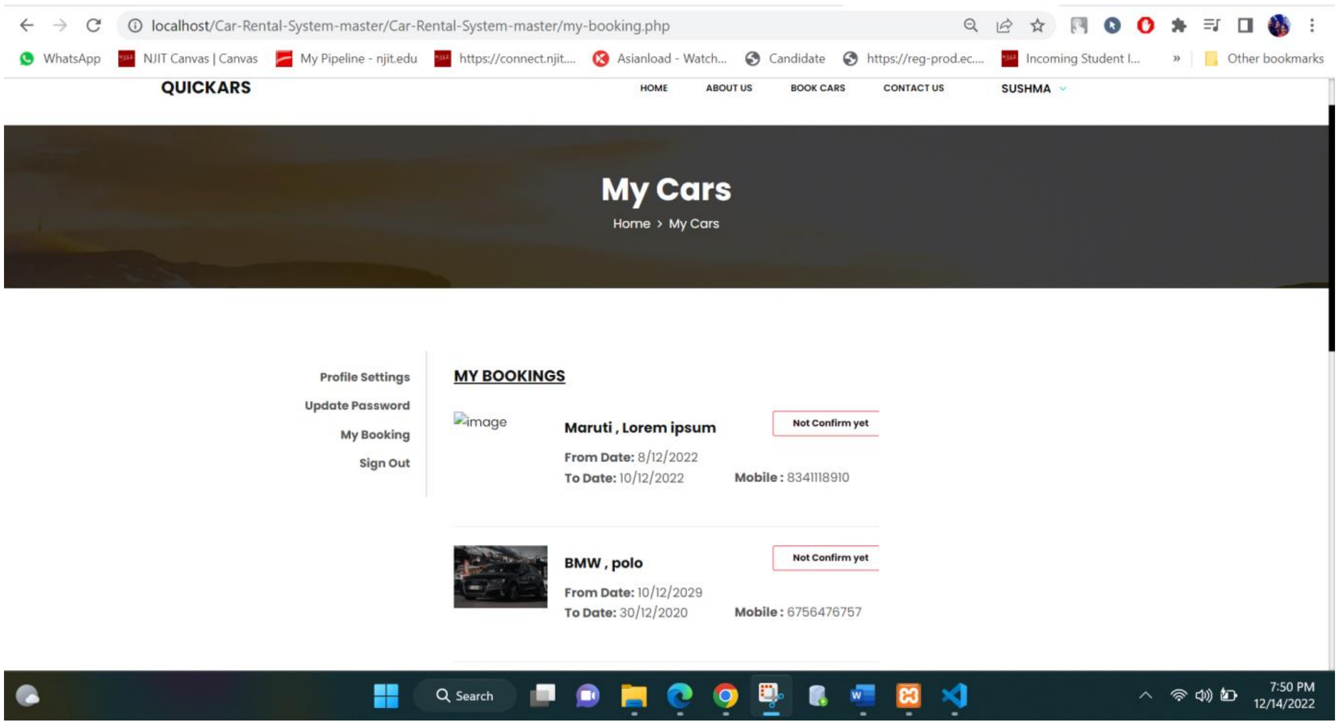
Toyota , ytb rvtr	$345 Per Day
Maruti , Lorem ipsum	$500 Per Day
Nissan , Lorem ipsum	$300 Per Day
BMW , Test Demoy	$300 Per Day

1 Listings

BMW , polo
$200 Per Day
7 seats 3453 model petrol
View Details

QuicKars
About Us
FAQs
SUBSCRIBE NEWSLETTER
Enter Email Address

Fig.5 Output for the Search


localhost/Car-Rental-System-master/Car-Rental-System-master/my-booking.php

QUICKARS HOME ABOUT US BOOK CARS CONTACT US SUSHMA

My Cars
Home > My Cars

Profile Settings
Update Password
My Booking
Sign Out

MY BOOKINGS

Maruti , Lorem ipsum — Not Confirm yet
From Date: 8/12/2022
To Date: 10/12/2022 Mobile : 8341118910

BMW , polo — Not Confirm yet
From Date: 10/12/2029
To Date: 30/12/2020 Mobile : 6756476757

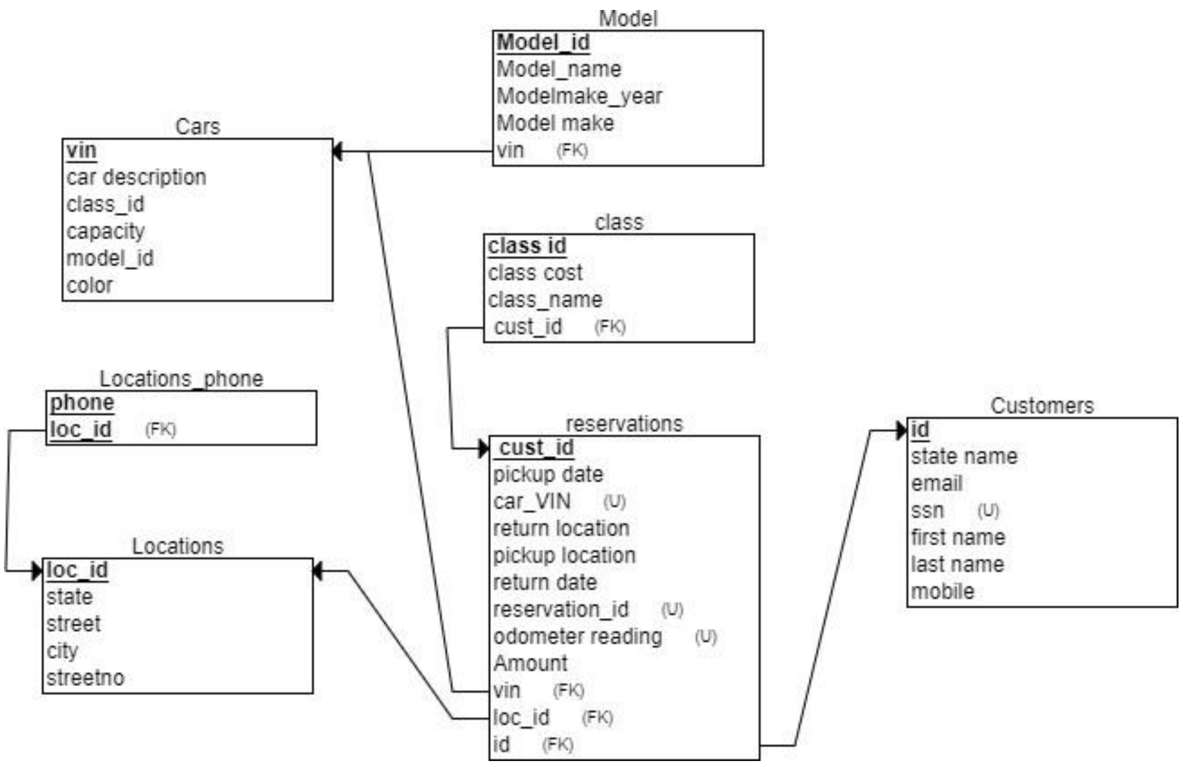
7:50 PM 12/14/2022

Fig.6 Booked Required car

3. Normalize and Relations:

a.) Write out the relation (schema) including all attribute names. Indicate keys and foreign
keys.

Sol.)



b.) Provide some sample data for the relation (5 rows)

sol.)

CREATION OF TABLES:

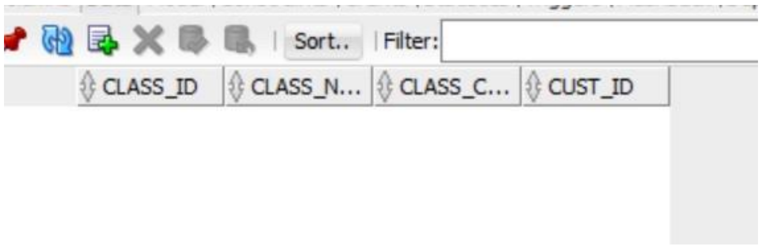
CARS:

```
CREATE TABLE "CARS"

  (         "VIN" VARCHAR2(20 BYTE) NOT NULL ENABLE,
            "CARDESCRIPTION" VARCHAR2(20 BYTE),
            "CAPACITY" NUMBER,
            "class_id" VARCHAR2(20 BYTE),
            "model_id" VARCHAR2(20 BYTE),
            "color" VARCHAR2(20 BYTE),
             CONSTRAINT "CARS_PK" PRIMARY KEY ("VIN")  );
```

VIN	CARDESC...	CAPACITY	class_id	model_id	color

CLASS:

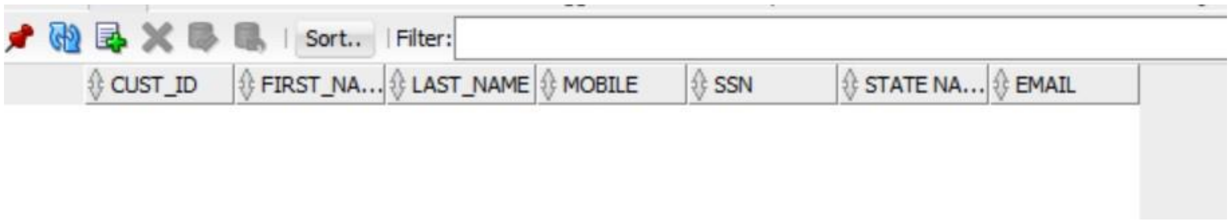
```
CREATE TABLE "CLASS"

  (         "CLASS_ID" NUMBER NOT NULL ENABLE,
            "CLASS_NAME" VARCHAR2(20 BYTE),
            "CLASS_COST" FLOAT(126),
            "CUST_ID" NUMBER NOT NULL ENABLE,
             CONSTRAINT "CLASS_PK" PRIMARY KEY ("CLASS_ID")
            CONSTRAINT "CLASS_FK1" FOREIGN KEY ("CUST_ID")      );
```



CLASS_ID	CLASS_N...	CLASS_C...	CUST_ID

CUSTOMERS:

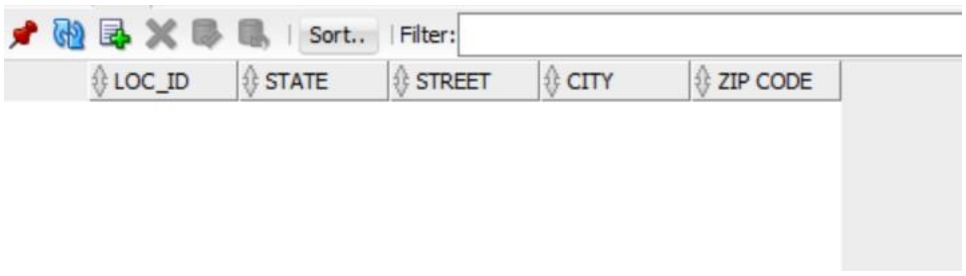
```
CREATE TABLE "CUSTOMERS"

  (        "CUST_ID" NUMBER NOT NULL ENABLE,
           "FIRST_NAME" VARCHAR2(20 BYTE),
           "LAST_NAME" VARCHAR2(20 BYTE),
           "MOBILE" NUMBER,
           "SSN" NUMBER NOT NULL ENABLE,
           "STATE NAME" VARCHAR2(20 BYTE),
           "EMAIL" VARCHAR2(20 BYTE),
            CONSTRAINT "CUSTOMERS_PK" PRIMARY KEY ("CUST_ID")  );
```



CUST_ID	FIRST_NA...	LAST_NAME	MOBILE	SSN	STATE NA...	EMAIL

LOCATIONS:

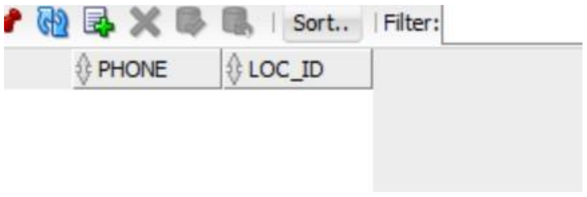
```
 CREATE TABLE "LOCATIONS"

  (        "LOC_ID" NUMBER NOT NULL ENABLE,
           "STATE" VARCHAR2(20 BYTE),
           "STREET" VARCHAR2(20 BYTE),
           "CITY" VARCHAR2(20 BYTE),

           "ZIP CODE" VARCHAR2(20 BYTE),

            CONSTRAINT "LOCATIONS_PK" PRIMARY KEY ("LOC_ID") );
```



LOC_ID	STATE	STREET	CITY	ZIP CODE

LOCATIONS_PHONE:

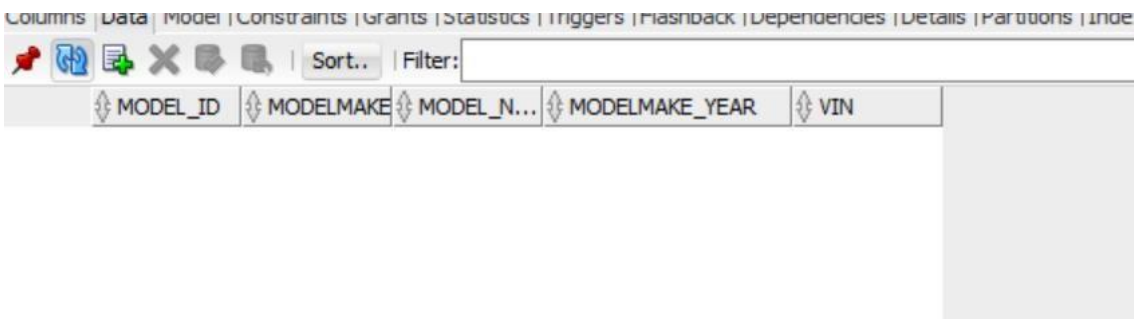
```
CREATE TABLE "LOCATIONS_PHONE"

  (       "PHONE" NUMBER NOT NULL ENABLE,
          "LOC_ID" NUMBER NOT NULL ENABLE,
           CONSTRAINT "LOCATIONS_PHONE_PK" PRIMARY KEY ("PHONE")
          CONSTRAINT "LOCATIONS_PHONE_FK1" FOREIGN KEY ("LOC_ID")  ;
```



PHONE	LOC_ID

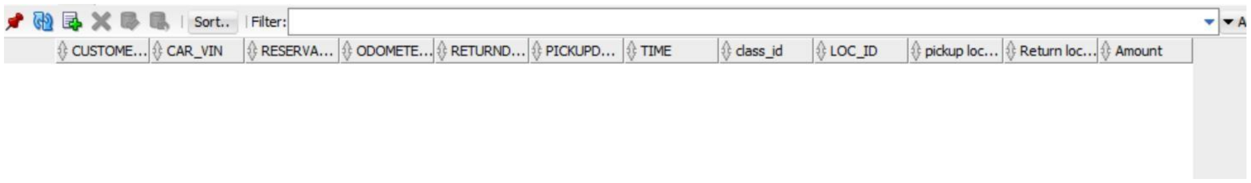
MODEL:

```
CREATE TABLE "MODEL"

  (       "MODEL_ID" NUMBER NOT NULL ENABLE,
          "MODELMAKE" VARCHAR2(20 BYTE),
          "MODEL_NAME" VARCHAR2(20 BYTE),
          "MODELMAKE_YEAR" NUMBER,
          "VIN" VARCHAR2(30 BYTE) NOT NULL ENABLE,
          CONSTRAINT "MODEL_PK" PRIMARY KEY ("MODEL_ID")
          CONSTRAINT “MODEL_FK” FOREIGN KEY (“VIN”) );
```


Columns | Data | Model | Constraints | Grants | Statistics | Triggers | Flashback | Dependencies | Details | Partitions | Inde
Sort..
Filter:
MODEL_ID
MODELMAKE
MODEL_N...
MODELMAKE_YEAR
VIN

RESERVATIONS:

```
CREATE TABLE "RESERVATIONS"

  (      "CUSTOMER_ID" NUMBER NOT NULL ENABLE,
         "CAR_VIN" VARCHAR2(20 BYTE) NOT NULL ENABLE,
         "RESERVATION_ID" NUMBER NOT NULL ENABLE,
         "ODOMETERREADING" NUMBER NOT NULL ENABLE,
         "RETURNDATE" VARCHAR2(20 BYTE),
         "PICKUPDATE" VARCHAR2(20 BYTE),
         "TIME" VARCHAR2(20 BYTE),
         "class_id" VARCHAR2(20 BYTE),
         "LOC_ID" NUMBER,
         "pickup location" VARCHAR2(20 BYTE),
         "Return location" VARCHAR2(20 BYTE),
         "Amount" VARCHAR2(20 BYTE),
          CONSTRAINT "RESERVATIONS_PK" PRIMARY KEY ("RESERVATION_ID")
         CONSTRAINT "RESERVATIONS_FK1" FOREIGN KEY ("CUSTOMER_ID")
         REFERENCES ."CUSTOMERS" ("CUST_ID") ENABLE,
          CONSTRAINT "RESERVATIONS_FK2" FOREIGN KEY ("CAR_VIN")
           REFERENCES "CARS" ("VIN") ENABLE,
          CONSTRAINT "RESERVATIONS_FK3" FOREIGN KEY ("CUSTOMER_ID")
           REFERENCES "CLASS" ("CLASS_ID") ENABLE,
          CONSTRAINT "RESERVATIONS_FK4" FOREIGN KEY ("LOC_ID")
           REFERENCES "LOCATIONS" ("LOC_ID") ENABLE );
```

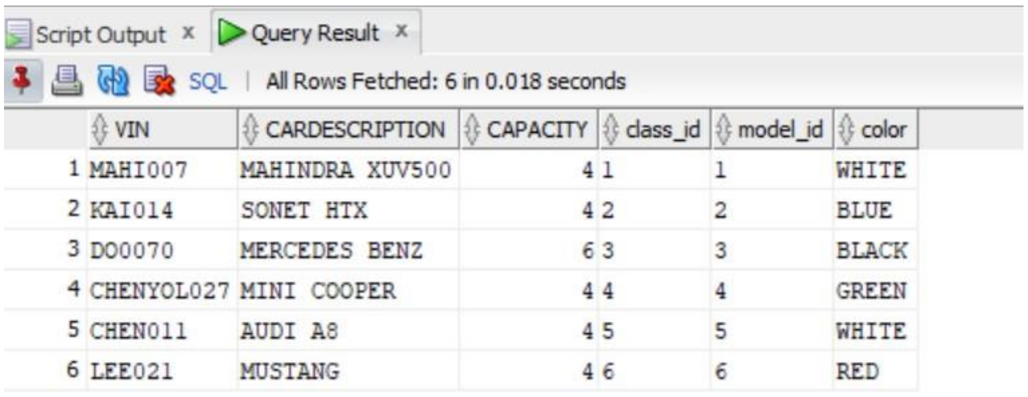


CUSTOME...	CAR_VIN	RESERVA...	ODOMETE...	RETURND...	PICKUPD...	TIME	class_id	LOC_ID	pickup loc...	Return loc...	Amount

INSERTING VALUES INTO TABLES:

Cars:

```
INSERT INTO CARS VALUES ('MAHI007', 'MAHINDRA XUV500',4,1,01,'WHITE');
INSERT INTO CARS VALUES ('KAI014','SONET HTX',4,2,02,'BLUE');
INSERT INTO CARS VALUES ('DO0070','MERCEDES BENZ',6,3,03,'BLACK');
INSERT INTO CARS VALUES ('CHENYOL027','MINI COOPER',4,4,04,'GREEN');
INSERT INTO CARS VALUES ('CHEN011','AUDI A8',4,5,05,'WHITE');
INSERT INTO CARS VALUES ('LEE021','MUSTANG',4,6,06,'RED');
SELECT*FROM CARS;
```

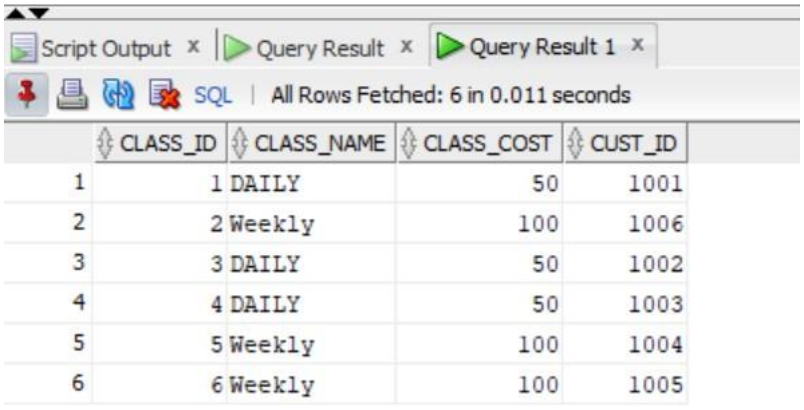


All Rows Fetched: 6 in 0.018 seconds

	VIN	CARDESCRIPTION	CAPACITY	class_id	model_id	color
1	MAHI007	MAHINDRA XUV500	4	1	1	WHITE
2	KAI014	SONET HTX	4	2	2	BLUE
3	DO0070	MERCEDES BENZ	6	3	3	BLACK
4	CHENYOL027	MINI COOPER	4	4	4	GREEN
5	CHEN011	AUDI A8	4	5	5	WHITE
6	LEE021	MUSTANG	4	6	6	RED

CLASS:

```
INSERT INTO CLASS VALUES (1,'DAILY',50,1001);
INSERT INTO CLASS VALUES (2,'Weekly',100,1006);
INSERT INTO CLASS VALUES (3,'DAILY',50,1002);
INSERT INTO CLASS VALUES (4,'DAILY',50,1003);
INSERT INTO CLASS VALUES (5,'Weekly',100,1004);
INSERT INTO CLASS VALUES (6,'Weekly',100,1005);
SELECT * FROM CLASS;
```

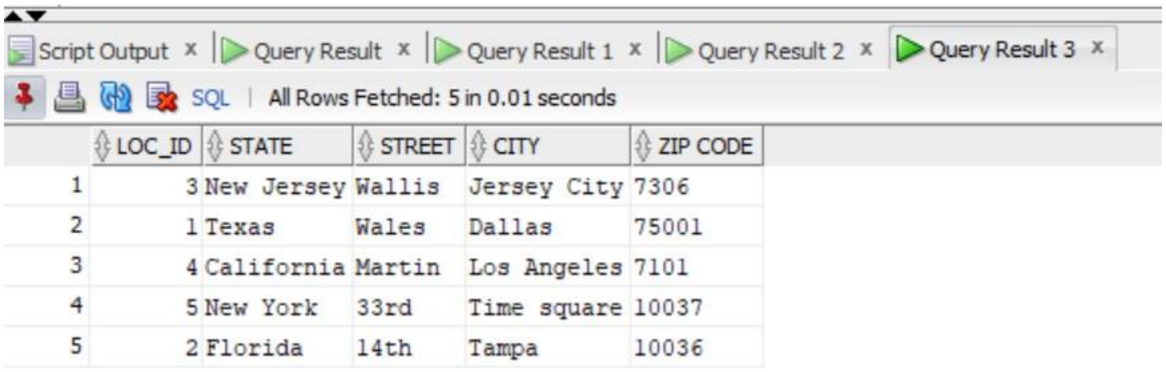

Script Output | Query Result | Query Result 1

All Rows Fetched: 6 in 0.011 seconds

```
   CLASS_ID CLASS_NAME CLASS_COST CUST_ID
1         1 DAILY              50    1001
2         2 Weekly            100    1006
3         3 DAILY              50    1002
4         4 DAILY              50    1003
5         5 Weekly            100    1004
6         6 Weekly            100    1005
```

LOCATIONS:

```
INSERT INTO LOCATIONS VALUES(003,'New Jersey','Wallis','Jersey City',07306);
INSERT INTO LOCATIONS VALUES(001,'Texas','Wales','Dallas',75001);
INSERT INTO LOCATIONS VALUES(003,'New Jersey','Sip','Jersey City',07306);

INSERT INTO LOCATIONS VALUES(004,'California','Martin','Los Angeles',07101);
INSERT INTO LOCATIONS VALUES(005,'New York','33rd','Time square',10037);
INSERT INTO LOCATIONS VALUES(002,'Florida','14th','Tampa',10036);
SELECT*FROM LOCATIONS;
```

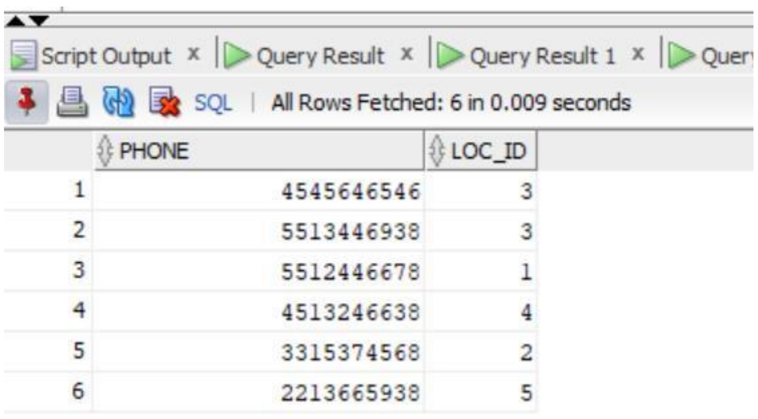

Script Output | Query Result | Query Result 1 | Query Result 2 | Query Result 3

All Rows Fetched: 5 in 0.01 seconds

```
   LOC_ID STATE      STREET CITY        ZIP CODE
1       3 New Jersey Wallis Jersey City 7306
2       1 Texas      Wales  Dallas      75001
3       4 California Martin Los Angeles 7101
4       5 New York   33rd   Time square 10037
5       2 Florida    14th   Tampa       10036
```

LOCATIONS_PHONE:

```
INSERT INTO LOCATIONS_PHONE VALUES(5513446938,003);
INSERT INTO LOCATIONS_PHONE VALUES(5512446678,001);
INSERT INTO LOCATIONS_PHONE VALUES(4513246638,004);
INSERT INTO LOCATIONS_PHONE VALUES(3315374568,002);
INSERT INTO LOCATIONS_PHONE VALUES(2213665938,005);
INSERT INTO LOCATIONS_PHONE VALUES(5513446938,003);
SELECT * FROM LOCATIONS_PHONE;
```

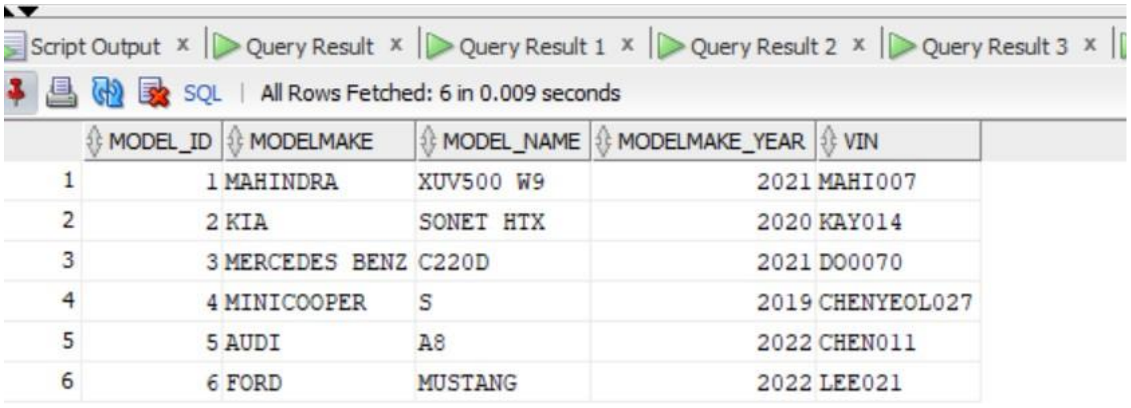


All Rows Fetched: 6 in 0.009 seconds

	PHONE	LOC_ID
1	4545646546	3
2	5513446938	3
3	5512446678	1
4	4513246638	4
5	3315374568	2
6	2213665938	5

MODEL:

```
INSERT INTO MODEL VALUES(01,'MAHINDRA','XUV500 W9','2021','MAHI007');
INSERT INTO MODEL VALUES(02,'KIA','SONET HTX','2020','KAY014');
INSERT INTO MODEL VALUES(03,'MERCEDES BENZ','C220D','2021','DO0070');
INSERT INTO MODEL VALUES(04,'MINICOOPER','S','2019','CHENYEOL027');
INSERT INTO MODEL VALUES(05,'AUDI','A8','2022','CHEN011');
INSERT INTO MODEL VALUES(06,'FORD','MUSTANG','2022','LEE021');
SELECT * FROM MODEL;
```



All Rows Fetched: 6 in 0.009 seconds

	MODEL_ID	MODELMAKE	MODEL_NAME	MODELMAKE_YEAR	VIN
1	1	MAHINDRA	XUV500 W9	2021	MAHI007
2	2	KIA	SONET HTX	2020	KAY014
3	3	MERCEDES BENZ	C220D	2021	DO0070
4	4	MINICOOPER	S	2019	CHENYEOL027
5	5	AUDI	A8	2022	CHEN011
6	6	FORD	MUSTANG	2022	LEE021

CUSTOMERS:

INSERT INTO CUSTOMERS VALUES(1001,'MAHESH','GHATTAMENENI',5783446938,123456789,'NEW JERSEY','MAHESH07@GMAIL.COM');

INSERT INTO CUSTOMERS VALUES(1002,'NANI','GHANTA',551223678,123454589,'NEW JERSEY','NANI24@GMAIL.COM');

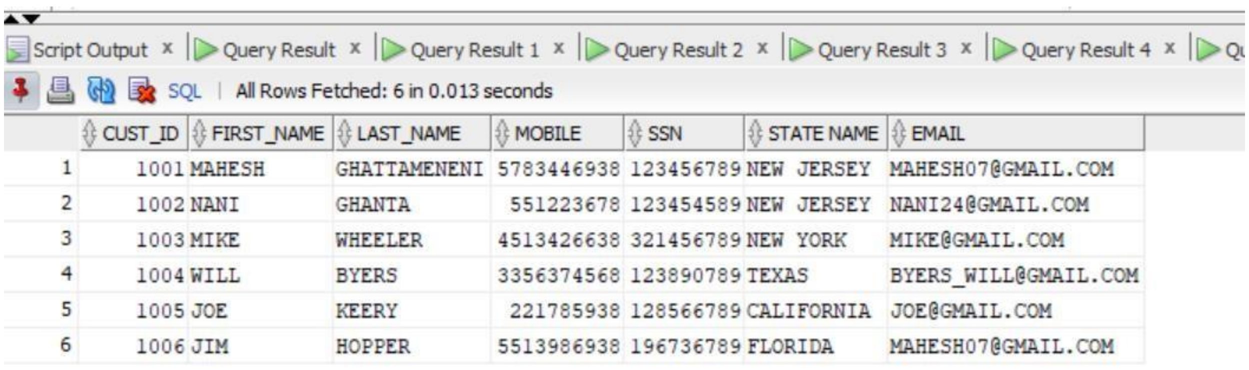
INSERT INTO CUSTOMERS VALUES(1003,'MIKE','WHEELER',4513426638,321456789,'NEW YORK','MIKE@GMAIL.COM');

INSERT INTO CUSTOMERS VALUES(1004,'WILL','BYERS',3356374568,123890789,'TEXAS','BYERS_WILL@GMAIL.COM');

INSERT INTO CUSTOMERS VALUES(1005,'JOE','KEERY',221785938,128566789,'CALIFORNIA','JOE@GMAIL.COM');

INSERT INTO CUSTOMERS VALUES(1006,'JIM','HOPPER',5513986938,196736789,'FLORIDA','MAHESH07@GMAIL.COM');

SELECT * FROM CUSTOMERS;


Script Output × | Query Result × | Query Result 1 × | Query Result 2 × | Query Result 3 × | Query Result 4 ×

SQL | All Rows Fetched: 6 in 0.013 seconds

	CUST_ID	FIRST_NAME	LAST_NAME	MOBILE	SSN	STATE NAME	EMAIL
1	1001	MAHESH	GHATTAMENENI	5783446938	123456789	NEW JERSEY	MAHESH07@GMAIL.COM
2	1002	NANI	GHANTA	551223678	123454589	NEW JERSEY	NANI24@GMAIL.COM
3	1003	MIKE	WHEELER	4513426638	321456789	NEW YORK	MIKE@GMAIL.COM
4	1004	WILL	BYERS	3356374568	123890789	TEXAS	BYERS_WILL@GMAIL.COM
5	1005	JOE	KEERY	221785938	128566789	CALIFORNIA	JOE@GMAIL.COM
6	1006	JIM	HOPPER	5513986938	196736789	FLORIDA	MAHESH07@GMAIL.COM

RESERVATIONS:

INSERT INTO RESERVATIONS VALUES(1001,'MAHI007',701,24563,'15/09/2022','13/09/2022','12:30:00',1,003,'NEW JERSEY','NEW JERSEY',50);

INSERT INTO RESERVATIONS VALUES(1002,'KAI014',702,24784,'18/09/2022','13/09/2022','10:30:00',2,001,'TEXAS','TEXAS',100);

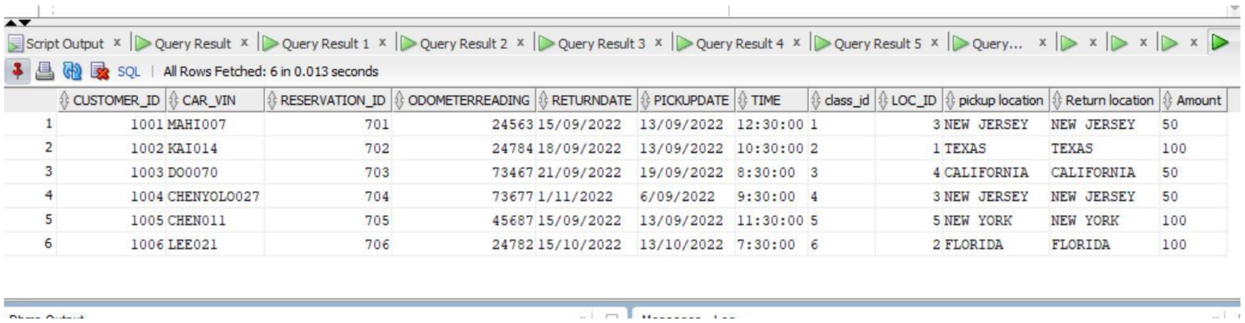
INSERT INTO RESERVATIONS VALUES(1003,'DO0070',703,73467,'21/09/2022','19/09/2022','8:30:00',3,004,'CALIFORNIA','CALIFORNIA ',50);

INSERT INTO RESERVATIONS VALUES(1004,'CHENYOLO027',704,73677,'1/11/2022','6/09/2022','9:30:00',4,003,'NEW JERSEY','NEW JERSEY',50);

INSERT INTO RESERVATIONS VALUES(1005,'CHEN011',705,45687,'15/09/2022','13/09/2022','11:30:00',5,005,'NEW YORK','NEW YORK',100);

INSERT INTO RESERVATIONS VALUES(1006,'LEE021',706,24782,'15/10/2022','13/10/2022','7:30:00',6,002,'FLORIDA','FLORIDA',100);

SELECT * FROM RESERVATIONS;


Script Output × | Query Result × | Query Result 1 × | Query Result 2 × | Query Result 3 × | Query Result 4 × | Query Result 5 × | Query... ×

SQL | All Rows Fetched: 6 in 0.013 seconds

	CUSTOMER_ID	CAR_VIN	RESERVATION_ID	ODOMETERREADING	RETURNDATE	PICKUPDATE	TIME	class_id	LOC_ID	pickup location	Return location	Amount
1	1001	MAHI007	701	24563	15/09/2022	13/09/2022	12:30:00	1	3	NEW JERSEY	NEW JERSEY	50
2	1002	KAI014	702	24784	18/09/2022	13/09/2022	10:30:00	2	1	TEXAS	TEXAS	100
3	1003	DO0070	703	73467	21/09/2022	19/09/2022	8:30:00	3	4	CALIFORNIA	CALIFORNIA	50
4	1004	CHENYOLO027	704	73677	1/11/2022	6/09/2022	9:30:00	4	3	NEW JERSEY	NEW JERSEY	50
5	1005	CHEN011	705	45687	15/09/2022	13/09/2022	11:30:00	5	5	NEW YORK	NEW YORK	100
6	1006	LEE021	706	24782	15/10/2022	13/10/2022	7:30:00	6	2	FLORIDA	FLORIDA	100

c.) State the Key for the relation and write down Functional Dependencies.

Sol.)

Relations:

Cars -> Vin

Model -> Model_id

Class -> class_id

Reservations -> cust_id

Customers -> id

Locations -> id

Functional Dependencies:

Cars -> Model

Cars -> reservations

Reservations -> class

Reservations -> customers

Locations -> Locations_phone

d.) State that this relation is in 3NF.

If a relation fails to meet the definition of a third normal form (e.g., it contains a partial-key dependency or it contains a transitive dependency), then split the relation into new relations.

Begin the normalization process from the beginning with each of these new relations.

Sol.) Already in 3rd normal form if tables are broken there will be useless relations.

4- Write four queries in English and answer in SQL code, show a screen dump or SNIP that shows the SQL code and the result (You may use the same queries from Phase II).

Write four SQL Queries;

1 contains GROUP BY

1 contains GROUP BY and HAVING

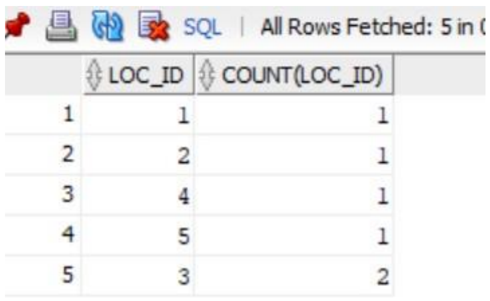
1 contains nested query with ALL

1 contains nested query with IN

Sol.)

GROUP BY:

```
SELECT LOC_ID,COUNT(LOC_ID) FROM LOCATIONS_PHONE GROUP BY LOC_ID;
```

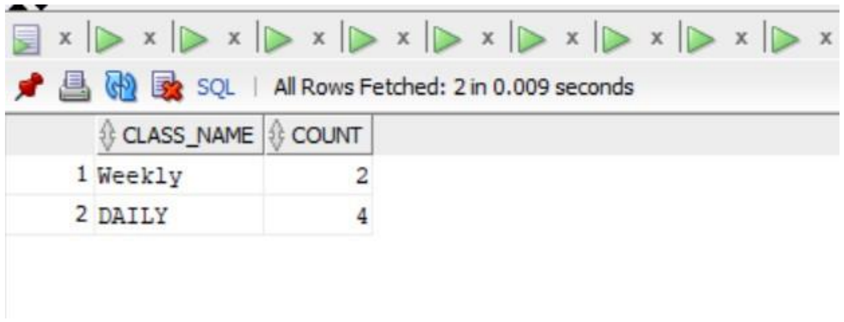


SQL | All Rows Fetched: 5 in (

	LOC_ID	COUNT(LOC_ID)
1	1	1
2	2	1
3	4	1
4	5	1
5	3	2

GROUP BY HAVING:

SELECT CLASS_NAME,COUNT(CLASS_ID) AS COUNT FROM CLASS GROUP BY CLASS_NAME HAVING COUNT(CLASS_ID)>0;



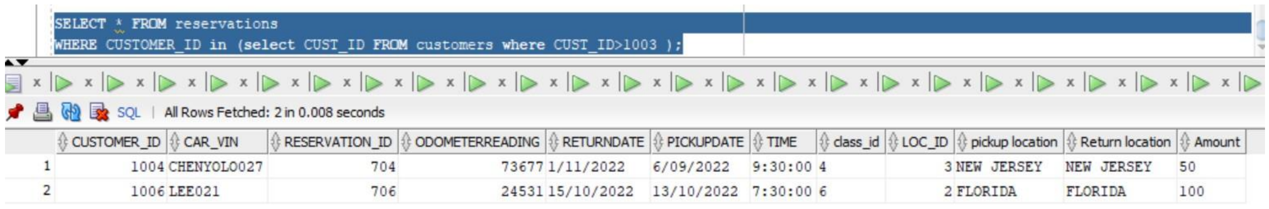
SQL | All Rows Fetched: 2 in 0.009 seconds

	CLASS_NAME	COUNT
1	Weekly	2
2	DAILY	4

NESTED QUERRIES IN:

SELECT * FROM reservations

WHERE CUSTOMER_ID in (select CUST_ID FROM customers where CUST_ID>1003);



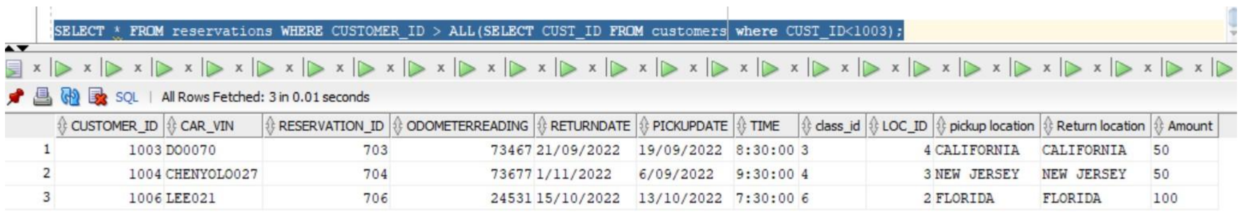
```
SELECT * FROM reservations
WHERE CUSTOMER_ID in (select CUST_ID FROM customers where CUST_ID>1003 );
```

SQL | All Rows Fetched: 2 in 0.008 seconds

	CUSTOMER_ID	CAR_VIN	RESERVATION_ID	ODOMETERREADING	RETURNDATE	PICKUPDATE	TIME	class_id	LOC_ID	pickup location	Return location	Amount
1	1004	CHENYOLO027	704	73677	1/11/2022	6/09/2022	9:30:00	4	3	NEW JERSEY	NEW JERSEY	50
2	1006	LEE021	706	24531	15/10/2022	13/10/2022	7:30:00	6	2	FLORIDA	FLORIDA	100

NESTED QUERRIES ALL:

SELECT * FROM reservations WHERE CUSTOMER_ID > ALL(SELECT CUST_ID FROM customers where CUST_ID<1003);



```
SELECT * FROM reservations WHERE CUSTOMER_ID > ALL(SELECT CUST_ID FROM customers where CUST_ID<1003);
```

SQL | All Rows Fetched: 3 in 0.01 seconds

	CUSTOMER_ID	CAR_VIN	RESERVATION_ID	ODOMETERREADING	RETURNDATE	PICKUPDATE	TIME	class_id	LOC_ID	pickup location	Return location	Amount
1	1003	DO0070	703	73467	21/09/2022	19/09/2022	8:30:00	3	4	CALIFORNIA	CALIFORNIA	50
2	1004	CHENYOLO027	704	73677	1/11/2022	6/09/2022	9:30:00	4	3	NEW JERSEY	NEW JERSEY	50
3	1006	LEE021	706	24531	15/10/2022	13/10/2022	7:30:00	6	2	FLORIDA	FLORIDA	100

5- A narrative conclusion section that describes:
a) the group's experience with the project (which steps were the most difficult? Which were the easiest? what did you learn that you did not imagine you would have? if you had to do it all over again, what would you have done differently?)

sol.)

• **Difficult Part:**
We faced difficulties as a group how to give connections in the database and how to create a mechanism for this database. How to set the foreign and primary keys for every table and how to connect the database with the web pages and how to create the logic of group by queries.

• **Easiest Part:**
Easiest part in this project when we design the schema and according to schema creating database is the most easiest part in this project through this we come to know if we first develop the schema then we easily create and develop the diagram and another easiest part as we are talking about as a group we divide the whole work into two portion and then start working on this through this we easily manage the whole project.

• **Learnings:**
We learned so many things in this project like connecting databases with web pages and how to import or extract the database from phpmyadmin and in mysql. Through this our concepts of group by, having and joins queries is more cleared now. We also learned how to set properly the concept of primary keys and foreign keys

b) any final comments and conclusions.
Sol.)

Working on same project in future: If in future, I'll work in this project then we will add the concept of admin page and images of the car.