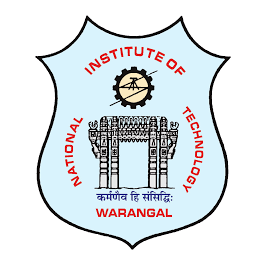
**NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL**

**TELANGANA,INDIA- 506004**

**CAR RENTAL SERVICE DATABASE MANAGEMENT PROJECT**

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**—----------------------------------------------------------------------------------------------------------**

**PROBLEM STATEMENT**

In this project we have designed a database management system to store information about car services. The database contains important information about the car services available when searched and accessed by a customer.

This database contains the details of the offices, employees working in the office , specifications of the cars available with the office and also the insurance details of the vehicle. It also has the record of the customers such as customer details, address, gender and customer ID. This database also maintains the transaction details of reservations done by customers such as reservation date,reservation ID, pickup location, number of days of booking and their communication details (email etc).

This database helps the people or customers to choose the type of vehicle they want. It also helps the customers in advance booking of vehicles and keep a copy of transactions as this database also stores payment details.

**CONTENTS**

ER diagram

Tables

Functional Dependencies and Primary Key

Normalisation

Relational Schema

SQL Code

**TABLES:**

1. Employee
2. Office
3. Customer
4. Reservation
5. Vehicle
6. Insurance
7. Payment

**RELATIONS:**

1) Supervision

2)Deal\_with

3)Works\_on

4)Makes

5)Includes

6)Pays

7)Has

8)Choose

**ER MODEL ASSUMPTIONS**

1)Firstly customer will reserve the slot for the cab through the office.

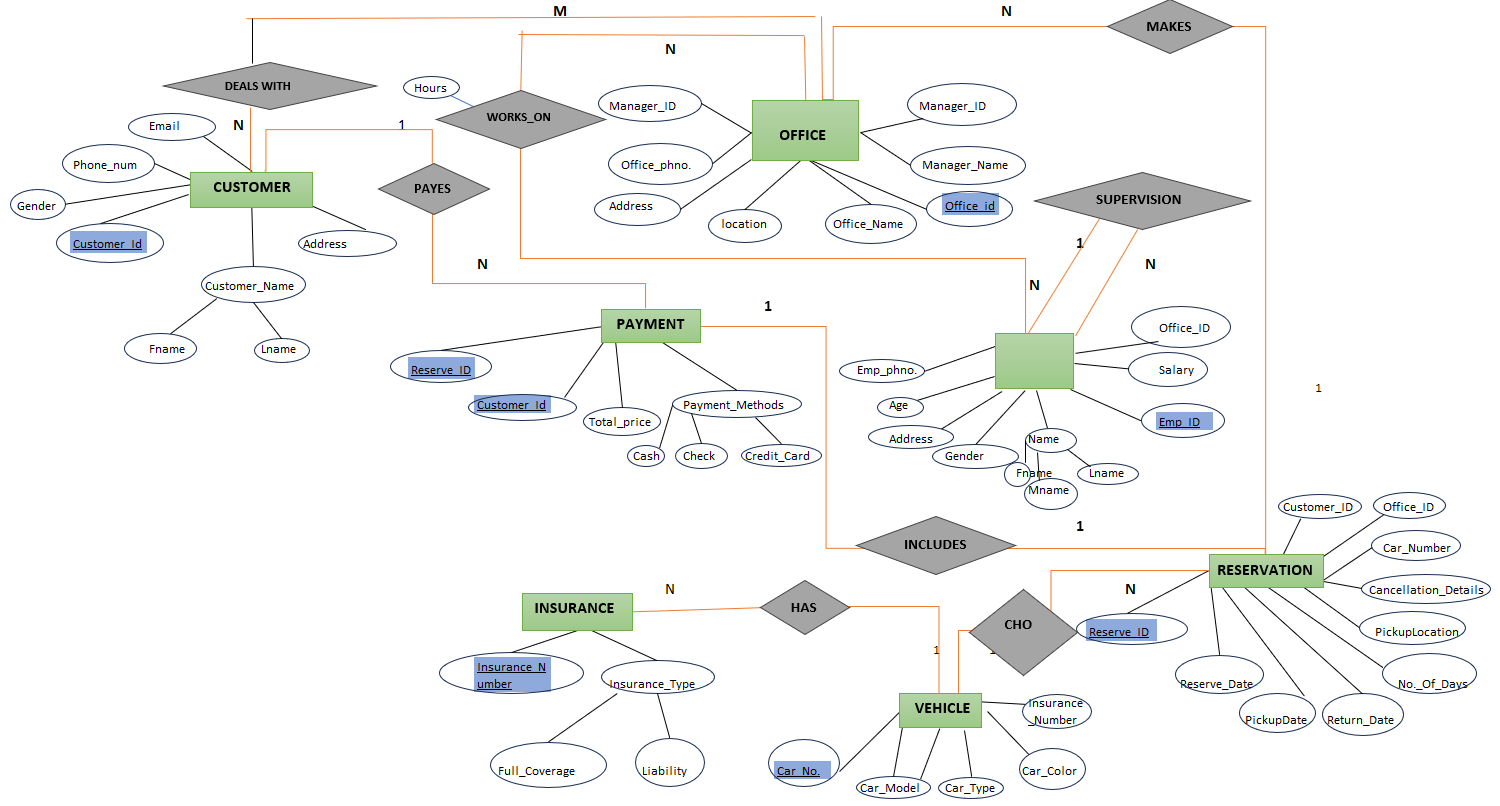
2) After payment a cab is allotted for that customer.

3)Then customer can see the driver’s name and car number.

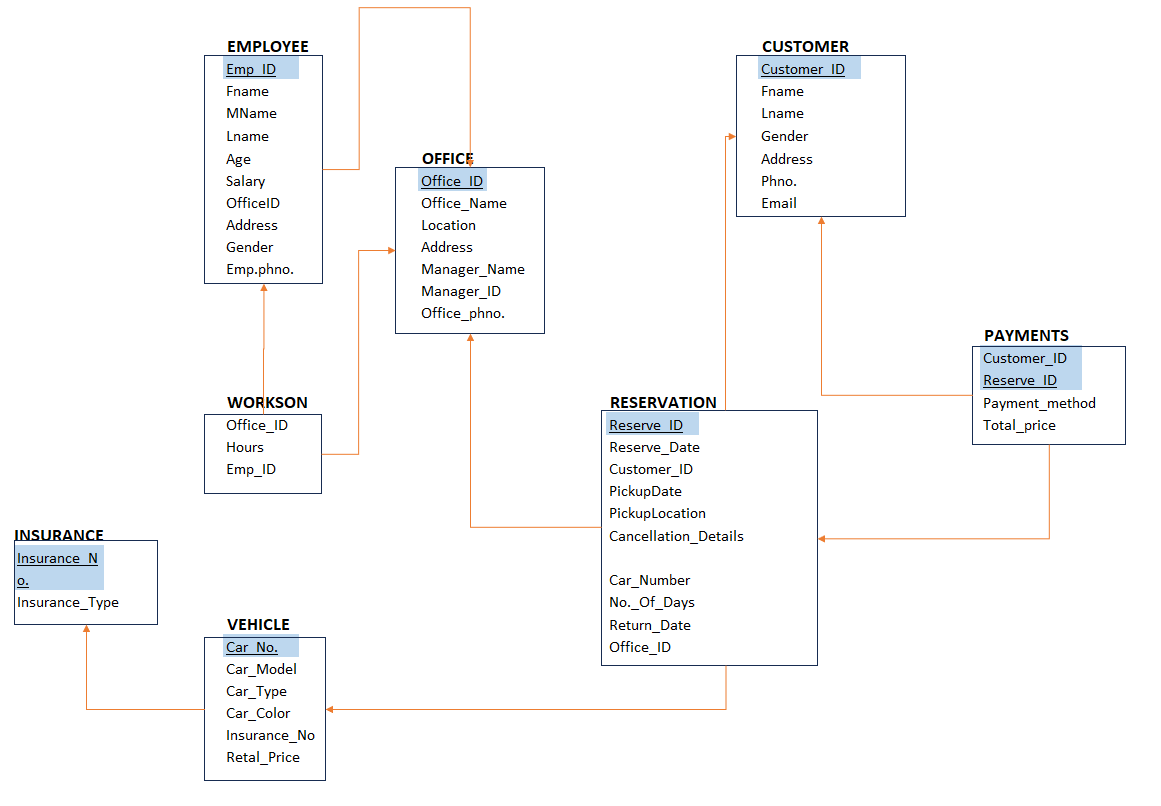
4)In these er model Insurance will depend on the Vehicle.

5) Similarly, Employee also depend on the Office.

**ER DIAGRAM**



**RELATIONAL SCHEMA**



**FUNCTIONAL DEPENDENCIES AND PRIMARY KEYS.**

1)**OFFCE**

Office\_ID -> {Manager\_ID,Manager\_Name,Office\_Name,location,

Address,Office\_No}

Since all fields depend on Office\_ID,(Office\_ID)+ -> R

Hence,Office\_Id is primary key.

**2)EMPLOYEE**

Emp\_ID ->{FName,MName,LName,Salart,Office\_ID,Gender,

Address,Age,Emp\_phno}

Since all fields depend on Emp\_ID,(Emp\_ID)+ -> R

Hence,Emp\_Id is primary key.

**3)CUSTOMER**

Customer\_ID ->{FName,LName,Address, ,Gender,Address,Age,

Phone\_num,Email }

Since all fields depend on Customer\_ID,(Customer\_ID)+ -> R

Hence,Customer\_Id is primary key.

**4)INSURANCE**

Insurance\_number -> {Insurance\_Type}

Since all fields depend on Insurance\_number,( Insurance\_number)+ -> R

Hence, Insurance\_number is primary key.

**5) VEHICLE**

Car\_no -> {Insurance\_number,Car\_Color,Car\_Type,Car\_Model}

I Since all fields depend on Insurance\_number,(Insurance\_number)+ -> R

Hence, Insurance\_number is primary key.

**6)PAYMENT**

{Reserve\_ID,Customer\_ID} -> Total\_Price,Payment\_method

Since all fields depend on {Reserve\_ID,Customer\_ID}

( {Reserve\_ID,Customer\_ID})+ -> R

Hence, {Reserve\_ID,Customer\_ID} is primary key.

**7)RESERVATION**

Reserve\_ID -> {Reserve\_Date,pickupdate,Return\_date,No\_of\_days,

pickup\_Location,Car\_no,Office\_Id,Customer\_ID}

I Since all fields depend on Reserve\_ID,( Reserve\_ID)+ -> R

Hence, Reserve\_ID is primary key.

**NORMALISATION:**

1)**OFFCE**

Primary key: Office\_ID

All attributes depend on the Office\_ID,hence the table is 2NF.

All attributes depend directly on Office\_ID, hence the table is in 3NF.

All determinants (Office\_ID) are candidate keys, hence the table is in BCNF.

**2)EMPLOYEE**

Primary key: Emp\_ID

All attributes depend on the Emp\_ID, hence the table is 2NF.

All attributes depend directly on Emp\_ID, hence the table is in 3NF.

All determinants (Emp\_ID) are candidate keys, hence the table is in BCNF.

**3)CUSTOMER**

Primary key: Customer\_ID

All attributes depend on the Customer\_ID, hence the table is 2NF.

All attributes depend directly on Customer\_ID, hence the table is in 3NF.

All determinants (Customer\_Id) are candidate keys, hence the table is in BCNF.

**4)INSURANCE**

Primary key: Insurance\_Number

All attributes depend on the Insurance\_Number, hence the table is 2NF.

All attributes depend directly on Insurance\_Number, hence the table is in 3NF.

All determinants (Insurance\_Number) are candidate keys, hence the table is in BCNF.

**5) VEHICLE**

Primary key: Car\_no

All attributes depend on the car\_no, hence the table is 2NF.

All attributes depend directly on car\_no, hence the table is in 3NF.

All determinants (car\_no) are candidate keys, hence the table is in BCNF.

**6)PAYMENT**

Primary key: {Reserve\_ID,Customer\_ID}

All attributes depend on the {Reserve\_ID,Customer\_ID}, hence the table is 2NF.

All attributes depend directly on {Reserve\_ID,Customer\_ID}, hence the table is in 3NF.

All determinants ({Reserve\_ID,Customer\_ID}) are candidate keys, hence the table is in BCNF.

**7)RESERVATION**

Primary key: Reserve\_ID

All attributes depend on the Reserve\_ID, hence the table is 2NF.

All attributes depend directly on Reserve\_ID, hence the table is in 3NF.

All determinants (Reserve\_ID) are candidate keys, hence the table is in BCNF.

**TABLES**

**1) OFFICE**

|  |  |  |
| --- | --- | --- |
| **ATTRIBUTE** | **DATATYPE** | **CONSTRAINTS AND**  **CHARACTERISTICS** |
| Office\_ID | INT | NOT NULL,PRIMARY KEY |
| Manager\_ID | INT | NOT NULL |
| Manager\_Name | VARCHAR(20) | NOT NULL |
| Office\_name | VARCHAR(20) | NOT NULL |
| Location | VARCHAR(40) | NOT NULL |
| Address | VARCHAR(40) | NOT NULL |
| Office\_phno | BIGINT | NOT NULL |

**2) EMPLOYEE**

|  |  |  |
| --- | --- | --- |
| **ATTRIBUTE** | **DATATYPE** | **CONSTRAINTS AND**  **CHARACTERISTICS** |
| Emp\_ID | INT | NOT NULL,PRIMARY KEY |
| Fname | VARCHAR(20) | NOT NULL |
| Mname | VARCHAR(20) | NOT NULL |
| Lname | VARCHAR(20) | NOT NULL |
| Office\_ID | INT | NOT NULL,FOREIGN KEY |
| Salary | INT | NOT NULL |
| Gender | VARCHAR(20) | NOT NULL |
| Address | VARCHAR(40) | NOT NULL |
| Age | INT | NOT NULL |
| Emp\_phno | BIGINT | NOT NULL |

**3) CUSTOMER**

|  |  |  |
| --- | --- | --- |
| **ATTRIBUTE** | **DATATYPE** | **CONSTRAINTS AND**  **CHARACTERISTICS** |
| Customer\_ID | INT | NOT NULL,PRIMARY KEY |
| Fname | VARCHAR(40) | NOT NULL |
| Lname | VARCHAR(40) | NOT NULL |
| Address | VARCHAR(40) | NOT NULL |
| Gender | VARCHAR(40) | NOT NULL |
| Phone\_num | BIGINT | NOT NULL |
| Email | VARCHAR(30) | NOT NULL |

**4) INSURANCE**

|  |  |  |
| --- | --- | --- |
| **ATTRIBUTE** | **DATATYPE** | **CONSTRAINTS AND**  **CHARACTERISTICS** |
| Insurance\_no | VARCHAR(20) | NOT NULL, PRIMARY KEY |
| Insurance\_type | VARCHAR(20) | NOT NULL |

**5) VEHICLE**

|  |  |  |
| --- | --- | --- |
| **ATTRIBUTE** | **DATATYPE** | **CONSTRAINTS AND**  **CHARACTERISTICS** |
| Car\_no | VARCHAR(20) | NOT NULL, PRIMARY KEY |
| Car\_model | VARCHAR(20) | NOT NULL |
| Car\_type | VARCHAR(20) | NOT NULL |
| Car\_color | VARCHAR(20) | NOT NULL |
| Insurance\_no | VARCHAR(20) | NOT NULL, FOREIGN KEY |

**6) RESERVATION**

|  |  |  |
| --- | --- | --- |
| **ATTRIBUTE** | **DATATYPE** | **CONSTRAINTS AND**  **CHARACTERISTICS** |
| Reserve\_ID | INT | NOT NULL, PRIMARY KEY |
| Reserve\_date | DATE | NOT NULL |
| Pickupdate | DATE | NOT NULL |
| Return\_date | DATE | NOT NULL |
| No\_of\_days | DATE | NOT NULL |
| Pickup\_location | VARCHAR(40) | NOT NULL |
| Car\_no | VARCHAR(20) | NOT NULL,FOREIGN KEY |
| Office\_ID | INT | NOT NULL, FOREIGN KEY |
| Customer\_ID | INT | NOT NULL, FOREIGN KEY |

**7) PAYMENT**

|  |  |  |
| --- | --- | --- |
| **ATTRIBUTE** | **DATATYPE** | **CONSTRAINTS AND**  **CHARACTERISTICS** |
| Reserve\_ID | INT | NOT NULL, FOREIGN KEY |
| Customer\_ID | INT | NOT NULL, FOREIGN KEY |
| Total\_price | INT | NOT NULL |
| Payment\_method | VARCHAR(20) | NOT NULL |

**8) WORKS\_ON**

|  |  |  |
| --- | --- | --- |
| **ATTRIBUTE** | **DATATYPE** | **CONSTRAINTS AND**  **CHARACTERISTICS** |
| Office\_ID | INT | NOT NULL, FOREIGN KEY |
| Emp\_ID | INT | NOT NULL, FOREIGN KEY |
| Hours | INT | NOT NULL |

**SQL CODE**

create table OFFICE(

office\_ID int primary key,

manager\_ID int,

manager\_name varchar(20),

office\_name varchar(20),

location varchar(40),

address varchar(40),

office\_phno bigint

);

create table EMPLOYEE(

emp\_ID int primary key,

fname varchar(20),

mname varchar(20),

lname varchar(20),

office\_ID int,

salary int,

gender varchar(20),

address varchar(40),

age int,

emp\_phno bigint,

foreign key (office\_ID) references OFFICE(office\_ID)

);

create table CUSTOMER(

customer\_ID int primary key,

fname varchar(20),

lname varchar(20),

address varchar(40),

gender varchar(20),

phone\_num bigint,

email varchar(30)

);

create table INSURANCE(

insurance\_no varchar(20) primary key,

insurance\_type varchar(20)

);

create table VEHICLE(

car\_no varchar(20) primary key,

car\_model varchar(20),

car\_type varchar(20),

car\_color varchar(20),

insurance\_no varchar(20),

foreign key(insurance\_no) references INSURANCE(insurance\_no)

);

create table RESERVATION(

reserve\_ID int primary key,

reserve\_date date,

pickupdate date,

return\_date date,

no\_of\_days int,

pickuplocation varchar(40),

car\_no varchar(20),

office\_ID int,

customer\_ID int,

foreign key(car\_no) references VEHICLE(car\_no),

foreign key(office\_ID) references OFFICE(office\_ID),

foreign key(customer\_ID) references CUSTOMER(customer\_ID)

);

create table PAYMENT(

reserve\_ID int,

customer\_ID int,

total\_price int,

payment\_method varchar(20),

constraint composite\_key primary key(reserve\_ID,customer\_ID),

foreign key(reserve\_ID) references RESERVATION(reserve\_ID),

foreign key(customer\_ID) references CUSTOMER(customer\_ID)

);

create table WORKS\_ON(

office\_id int,

emp\_id int,

hours int,

foreign key(office\_ID) references office(office\_ID),

foreign key(emp\_ID) references employee(emp\_ID),

constraint composite\_key\_2 primary key(office\_ID,emp\_ID)

);

**OFFICE**

insert into office values(92,12,"Mohan","nice car1","near to busstand",

"4-5-8/5, mandi bazar,hyderabad",8555012459);

insert into office values(71,14,"Raju","soul car","Kukatpally",

"8-3-960/A, park road,hyderabad",7993523852);

insert into office values(39,19,"Ravi","Apna car","Gachibowli",

"3-9-290/2, Gandhi colony,hyderabad",7888781175);

insert into office values(45,11,"Hari","Sm cars","Ameerpet",

"10-5-2, VidyaNagar,hyderabad",9493999468);

insert into office values(64,8,"Ashok","SS travels","Hitech city",

"2/9/58,Janardhan Nagar,hyderabad",9246551381);

insert into office values(26,21,"Ajay","Multicabs","Dilsukhnagar",

"9CX4,7 Tombs road,hyderabad",9989786977);

insert into office values(81,34,"Krishna","Classic Travels","Jubilee Hills",

"8-2-682/A, Road No 12,hyderabad",9133100092);

insert into office values(11,16,"Ram","Car for share","LB Nagar","10-1-118/3,

Ganga Apartments,hyderabad",9054500002);

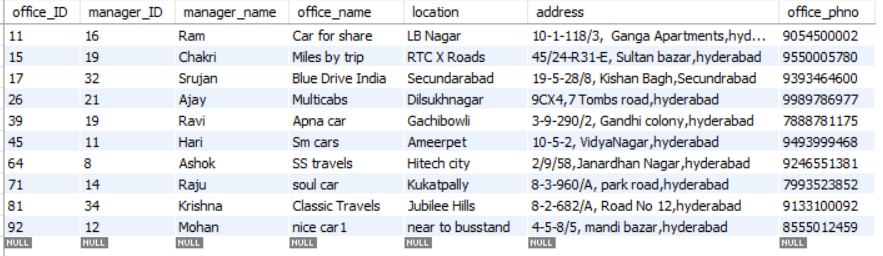
insert into office values(15,19,"Chakri","Miles by trip","RTC X Roads",

"45/24-R31-E, Sultan bazar,hyderabad",9550005780);

insert into office values(17,32,"Srujan","Blue Drive India","Secundarabad",

"19-5-28/8, Kishan Bagh,Secundrabad",9393464600);

Select \* from OFFICE;



**EMPLOYEE**

insert into employee values (51,"Sravan","kumar","nagilla",92,70000,

"male","3-4-5/1, uppal,hyderabad",35,6303256748);

insert into employee values(101,"Rajat","Kumar","Sharma",71,72000,

"Male","Street No 1,Madhapur,hyderabad",32,6304414773);

insert into employee values(86,"Katta","Naga","Ritvik",39,65000,

"Male","12-2-830/A/151,Mehdipatnam,hyderabad",26,9701458038);

insert into employee values(54,"Manugonda","Raj","Kumar",45,80000,

"Male","5-9-88/A/1,Public Gardens,hyderabad",28,9392423308);

insert into employee values(73,"Vemunuri","Praneeth","Reddy",64,90000,

"Male","16-7-392/1,Malakpet,hyderabad",27,6302820365);

insert into employee values(22,"Hari","Kumar","Chopra",26,55000,

"Male","Santosh Nagar,hyderabad",30,9866236021);

insert into employee values(2,"Pentakota","Venkata","Siddharth",81,40000,

"Male","4-32-1494/1,kukatpally,hyderabad",31,8688265505);

insert into employee values(15,"N","Srinivas","Rahul",11,75000,

"Male","20-4-7,SriNagar Colony,hyderabad",33,9581304374);

insert into employee values(37,"V","Ganga","Charitha",15,45000,

"Female","Flat no 202,Pearls Residency,Gandipet",29,8309056805);

insert into employee values(40,"Aradhyula","Anjali","Devi",17,85000,

"Female","APSRTC Colony,hyderabad",24,7386152390);

insert into employee values(121,"N","Srinivas","Rahul",11,75000,

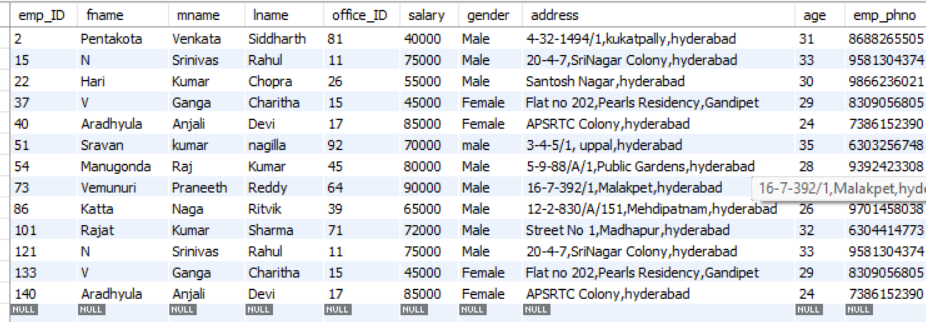
"Male","20-4-7,SriNagar Colony,hyderabad",33,9581304374);

insert into employee values(133,"V","Ganga","Charitha",15,45000,

"Female","Flat no 202,Pearls Residency,Gandipet",29,8309056805);

insert into employee values(140,"Aradhyula","Anjali","Devi",17,85000,

"Female","APSRTC Colony,hyderabad",24,7386152390);Select \* from EMPLOYEE;



**CUSTOMER**

insert into customer(customer\_ID,fname,lname,address,gender,phone\_num,email)

values(1465,"Om","Parmar","Road No 27,Hitech city,hyderabad","male",6303296865,"parmar2341@gmail.com");

insert into customer(customer\_ID,fname,lname,address,gender,phone\_num,email)

values(2134,"Sanjeev","Sreenivas","Airport Road,hyderabad","male",8555078030,"sanjeev145@gmail.com");

insert into customer(customer\_ID,fname,lname,address,gender,phone\_num,email)

values(5632,"Ritesh","Kumar","Kollur hyderabad","male",7855214697,"ritesh1234@gmail.com");

insert into customer(customer\_ID,fname,lname,address,gender,phone\_num,email)

values(3675,"Ramesh","babu","2-3-4/A,gachibowli,hyderabad","male",6320155425,"ramesh@gmail.com");

insert into customer(customer\_ID,fname,lname,address,gender,phone\_num,email)

values(1987,"Rahul","verma","Street No 2,Ameerpet,hyderabad","male",7852146957,"rahul23@gmail.com");

insert into customer(customer\_ID,fname,lname,address,gender,phone\_num,email)

values(1234,"Jitesh","Singh","Road No 45,kukatpally,hyderabad","male",9852367418,"jiteshsinghr89@gmail.com");

insert into customer(customer\_ID,fname,lname,address,gender,phone\_num,email)

values(4650,"Manoj","Reddy","venkatadri towers,malakpet,hyderabad","male",7852146932,"manojr2@gmail.com");

insert into customer(customer\_ID,fname,lname,address,gender,phone\_num,email)

values(2677,"venkatesh","gupta","shine residency,kollur,hyderabad","male",7854126952,"venkygupta@gmail.com");

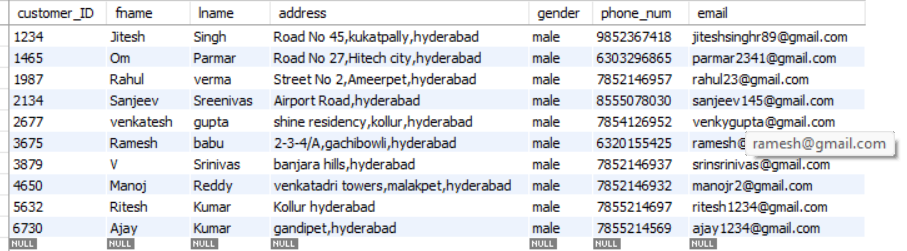
insert into customer(customer\_ID,fname,lname,address,gender,phone\_num,email)

values(3879,"V","Srinivas","banjara hills,hyderabad","male",7852146937,"srinsrinivas@gmail.com");

insert into customer(customer\_ID,fname,lname,address,gender,phone\_num,email)

values(6730,"Ajay","Kumar","gandipet,hyderabad","male",7855214569,"ajay1234@gmail.com");

SELECT \* FROM CUSTOMER;



**INSURANCE**

insert into insurance(insurance\_no,insurance\_type)

values("LIC53223","Full coverage");

insert into insurance(insurance\_no,insurance\_type)

values("HDFC18972","Liability");

insert into insurance(insurance\_no,insurance\_type)

values("AIGIND91","Liabilty");

insert into insurance(insurance\_no,insurance\_type)

values("ICICI18139","Full Coverage");

insert into insurance(insurance\_no,insurance\_type)

values("MAXL8920","Liabilty");

insert into insurance(insurance\_no,insurance\_type)

values("KTKM3U42","Full Coverage");

insert into insurance(insurance\_no,insurance\_type)

values("SBIIND1429","Liability");

insert into insurance(insurance\_no,insurance\_type)

values("PNBM20378","Full Coverage");

insert into insurance(insurance\_no,insurance\_type)

values("RIL31034","Liability");

insert into insurance(insurance\_no,insurance\_type)

values("SAHA9267","Full Coverage");

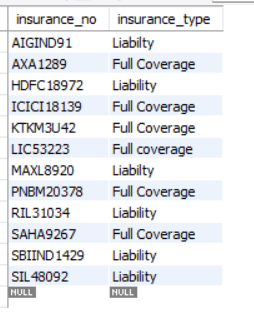
insert into insurance(insurance\_no,insurance\_type)

values("SIL48092","Liability");

insert into insurance(insurance\_no,insurance\_type)

values("AXA1289","Full Coverage");

select \* from INSURANCE;



**VEHICLE**

insert into vehicle(car\_no,car\_model,car\_type,car\_color,insurance\_no)

values("AP 21 BK 2267","Corolla","SUV","black","LIC53223");

insert into vehicle(car\_no,car\_model,car\_type,car\_color,insurance\_no)

values("KA 51 MA 1479","Creta","Sedan","blue","HDFC18972");

insert into vehicle(car\_no,car\_model,car\_type,car\_color,insurance\_no)

values("TS 23 EF 9992","Fortuner","Hatchback","red","AIGIND91");

insert into vehicle(car\_no,car\_model,car\_type,car\_color,insurance\_no)

values("TS 12 AF 7835","Kia","Coupe","violet","ICICI18139");

insert into vehicle(car\_no,car\_model,car\_type,car\_color,insurance\_no)

values("TN 23 TU 3452","Nexon","Sedan","purple","MAXL8920");

insert into vehicle(car\_no,car\_model,car\_type,car\_color,insurance\_no)

values("AP 31 SA 5893","Mini","SUV","white","KTKM3U42");

insert into vehicle(car\_no,car\_model,car\_type,car\_color,insurance\_no)

values("KL 12 NS 4309","Innova","Bolero","yellow","SBIIND1429");

insert into vehicle(car\_no,car\_model,car\_type,car\_color,insurance\_no)

values("MH 43 RU 7840","Swift","Sedan","silver","PNBM20378");

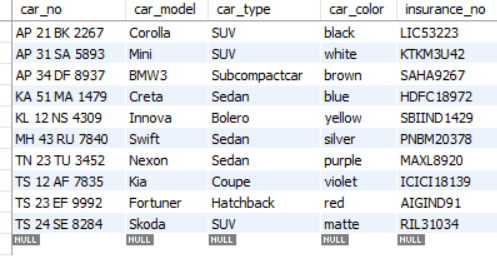
insert into vehicle(car\_no,car\_model,car\_type,car\_color,insurance\_no)

values("TS 24 SE 8284","Skoda","SUV","matte","RIL31034");

insert into vehicle(car\_no,car\_model,car\_type,car\_color,insurance\_no)

values("AP 34 DF 8937","BMW3","Subcompactcar","brown","SAHA9267");

select \* from vehicle;



**RESERVATION**

insert into reservation values(129,'2023-02-12','2023-02-14',

'2023-02-16',2,"Ameerpet","AP 21 BK 2267",11,1234);

insert into reservation values(157,'2023-03-07','2023-03-10',

'2023-03-14',4,"Kukatpally","AP 21 BK 2267",15,1465);

insert into reservation values(237,'2023-03-21','2023-03-25',

'2023-03-29',4,"Jubilee hills","AP 31 SA 5893",17,1987);

insert into reservation values(364,'2023-04-21','2023-04-22',

'2023-04-24',2,"BanjaraHills","KA 51 MA 1479",26,2677);

insert into reservation values(318,'2023-05-01','2023-05-03',

'2023-05-06',3,"Hitech city","KL 12 NS 4309",39,3675);

insert into reservation values(497,'2023-06-09','2023-06-16',

'2023-06-19',3,"Shamshabad","TN 23 TU 3452",45,3879);

insert into reservation values(823,'2023-06-20','2023-06-22',

'2023-06-28',6,"Uppal","TN 23 TU 3452",64,4650);

insert into reservation values(741,'2023-07-07','2023-07-10',

'2023-07-12',2,"Madhapur","TS 12 AF 7835",71,5632);

insert into reservation values(786,'2023-07-08','2023-07-11',

'2023-07-15',4,"Somajiguda","TS 24 SE 8284",81,6730);

insert into reservation values(108,'2023-01-27','2023-01-29',

'2023-02-04',6,"Mandi bazar","AP 34 DF 8937",92,2677);

insert into reservation values(159,'2023-03-07','2023-03-10',

'2023-03-14',4,"Kukatpally","AP 21 BK 2267",15,5632);

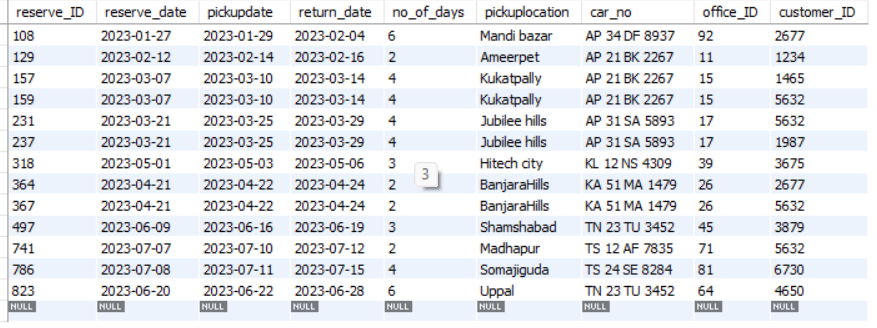
insert into reservation values(231,'2023-03-21','2023-03-25',

'2023-03-29',4,"Jubilee hills","AP 31 SA 5893",17,5632);

insert into reservation values(367,'2023-04-21','2023-04-22',

'2023-04-24',2,"BanjaraHills","KA 51 MA 1479",26,5632);

select \* from reservation;



**PAYMENT**

insert into payment(reserve\_ID,customer\_ID,total\_price,payment\_method)

values(129,1234,3000,"cash");

insert into payment(reserve\_ID,customer\_ID,total\_price,payment\_method)

values(157,1465,2000,"cheque");

insert into payment(reserve\_ID,customer\_ID,total\_price,payment\_method)

values(237,1987,3500,"credit\_card");

insert into payment(reserve\_ID,customer\_ID,total\_price,payment\_method)

values(364,2677,4000,"cash");

insert into payment(reserve\_ID,customer\_ID,total\_price,payment\_method)

values(318,3675,1500,"cash");

insert into payment(reserve\_ID,customer\_ID,total\_price,payment\_method)

values(497,3879,4500,"cheque");

insert into payment(reserve\_ID,customer\_ID,total\_price,payment\_method)

values(823,4650,5000,"credit\_card");

insert into payment(reserve\_ID,customer\_ID,total\_price,payment\_method)

values(741,5632,4000,"cheque");

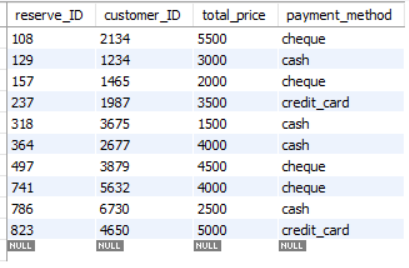
insert into payment(reserve\_ID,customer\_ID,total\_price,payment\_method)

values(786,6730,2500,"cash");

insert into payment(reserve\_ID,customer\_ID,total\_price,payment\_method)

values(108,2134,5500,"cheque");

SELECT \* FROM PAYMENT;



**WORKS\_ON**

insert into works\_on(office\_ID,emp\_ID,hours)

values(11,2,6);

insert into works\_on(office\_ID,emp\_ID,hours)

values(15,15,8);

insert into works\_on(office\_ID,emp\_ID,hours)

values(17,22,7);

insert into works\_on(office\_ID,emp\_ID,hours)

values(26,37,7);

insert into works\_on(office\_ID,emp\_ID,hours)

values(39,40,10);

insert into works\_on(office\_ID,emp\_ID,hours)

values(45,51,6);

insert into works\_on(office\_ID,emp\_ID,hours)

values(64,54,7);

insert into works\_on(office\_ID,emp\_ID,hours)

values(71,73,9);

insert into works\_on(office\_ID,emp\_ID,hours)

values(81,86,8);

insert into works\_on(office\_ID,emp\_ID,hours)

values(92,101,9);

insert into works\_on(office\_ID,emp\_ID,hours)

values(11,121,9);

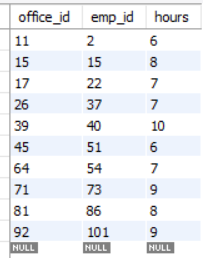
insert into works\_on(office\_ID,emp\_ID,hours)

values(15,133,8);

insert into works\_on(office\_ID,emp\_ID,hours)

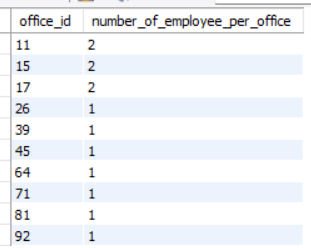
values(17,140,9);

select \* from works\_on;



**1)To display number of employee for each office number.**

Select office\_id,count(emp\_id) as number\_of\_employee\_per\_office from works\_on group by office\_id,order by office\_id;



**2) To show number of cars rented of customer his id is 5632**

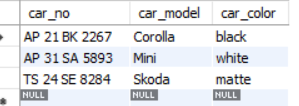
Select customer\_ID,count(\*) as contract\_of\_specific\_customer from reservation where customer\_id = 5632 ;



**3)To show all car model of (SUV CARS) in the office.**

Select car\_no,car\_model,car\_color from vehicle where car\_type = “SUV”

Order by car\_model;



**4)To show customers who reserved on year 2023.**

Select customer\_id,pickupdate,return\_date from reservation where pickupdate like “%2023%” order by customer\_id;

