YULU BIKES PVT LTD

PRESENTED BY:
NAME :   RASHMI NAIR

- **YULU, a Bangalore-based electric bike and cycle sharing platform, was started by InMobi Co-founder Amit Gupta in 2017.**
- **Electrical bikes(Yulu Miracle) and cycles (Yulu Move) are provided on rent.**
- **Operating in Mumbai, Delhi, Bengaluru, Bhuwaneshwar.**
- **In November 2019, YULU raised $8 million in its Series A round, from Bajaj Auto Finance. Existing investors invested an additional $2 million in YULU .**
- **The team is looking to support over 1,00,000 Yulu Miracleby2020.**

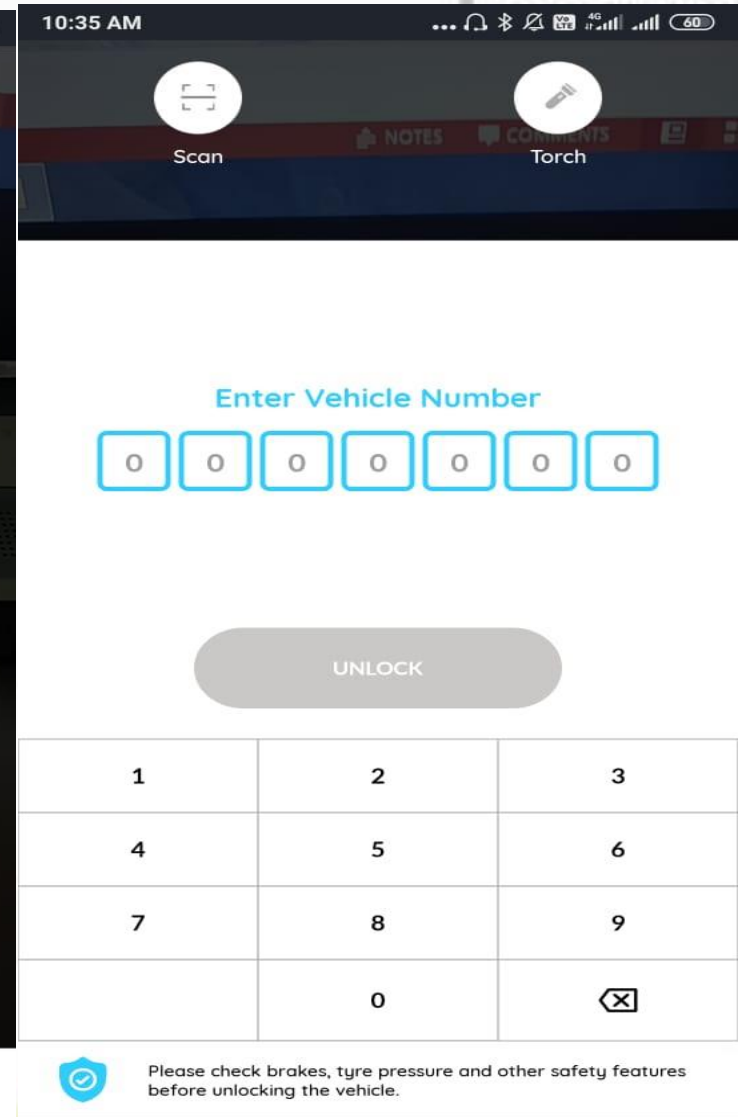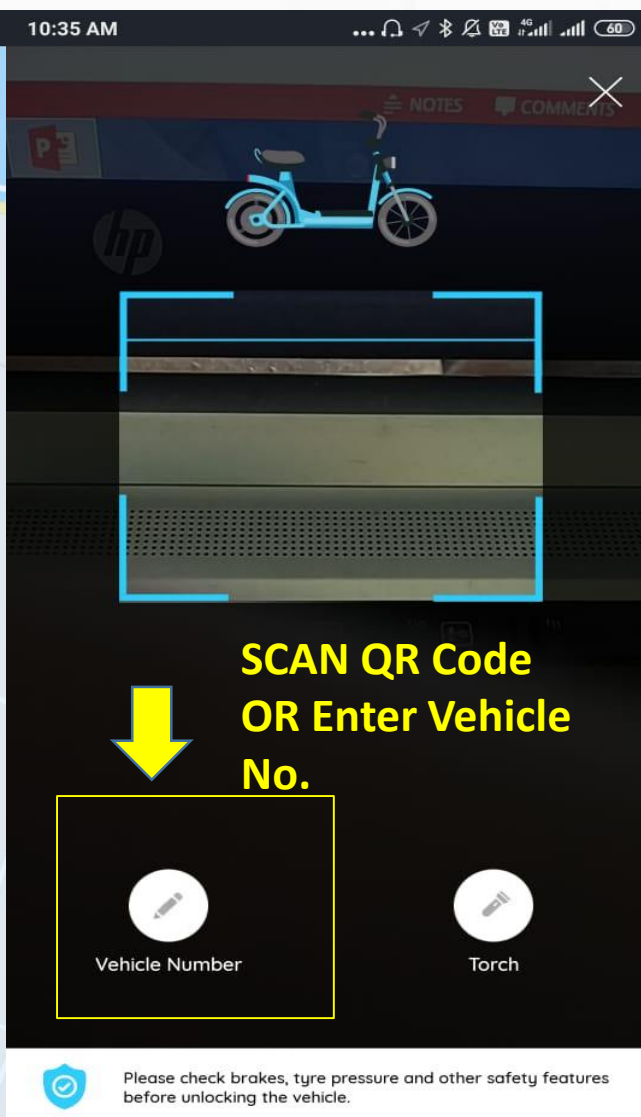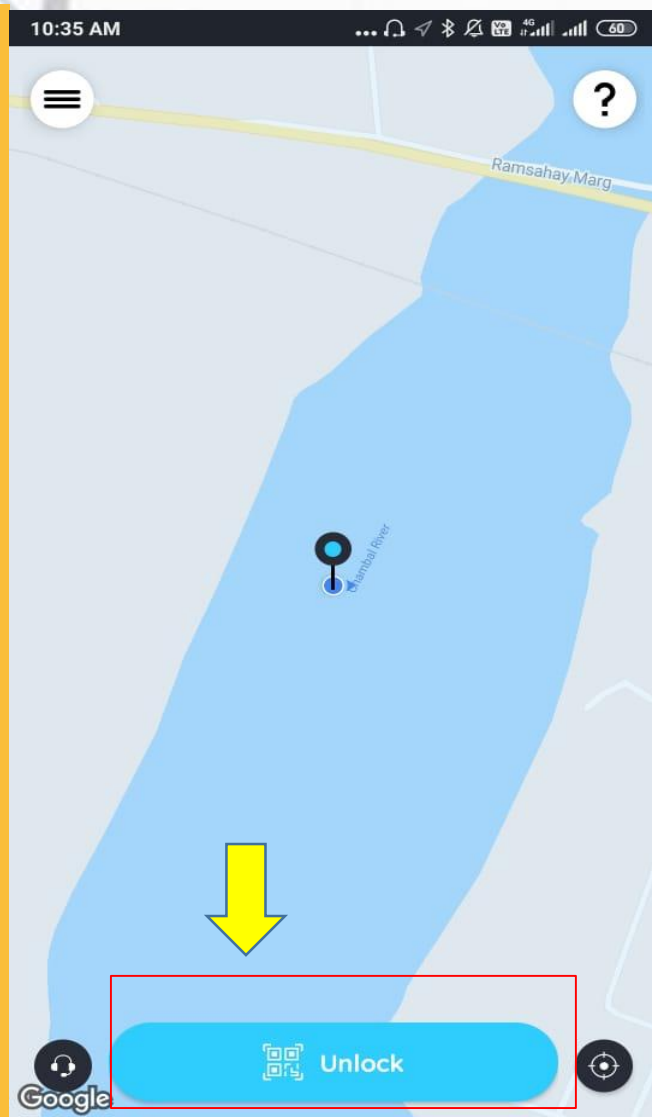**AIM: To address traffic problems and pollution.**

SCAN QR or Enter Registration number to unlock vehicle and ride

The customer scans QR code on the vehicle and the lock automatically opens.

- When the customer *scans the QR code* , company *sends info of the vehicle to the customer* on app after which he/she unlocks the vehicle.
- The company *uses the information of the user's phone*. As soon as the user scans QR or enters vehicle no. ,the company comes to know about the *location of the user* which they use to trace where the vehicle is going.
- They use AI and ML Techniques for this.
- They have a big screen showing *blue and red bubbles on map* . *Blue bubbles* show the *vehicles moving* and *red show the vehicles which are low battery*.

YULU APP INTERFACE

SCAN QR Code OR Enter Vehicle No.

Please play the
video on left
STEPS TO RIDE
a) **YULU MOVE**
b) **YULU
MIRACLE**

HOW I DECIDED UPON THE DATA POINTS?

- **Installing and using Yulu App.**
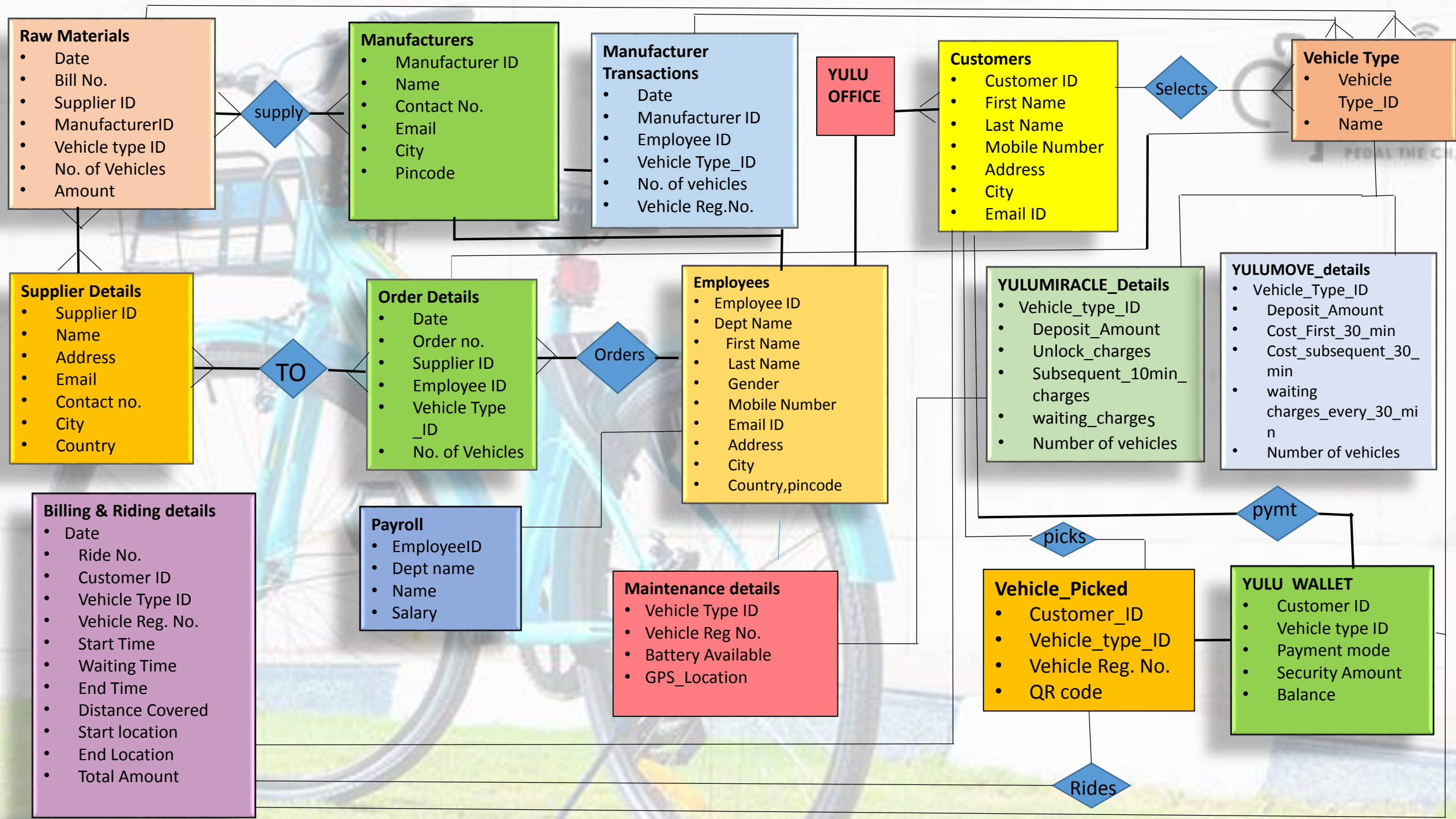
- **Browsing through YULU website.**

- **Watching videos related to startup story of Yulu.**

- **Understanding the complete procedure of how the business works.**

- **Websites :**

https://yourstory.com/2020/02/startups-electric-vehicles-ather-yulu

https://yourstory.com/2019/09/behind-scenes-yulu-electric-vehicles-ev-startups

https://startuptalky.com/yulu-success-story/

ER DIAGRAM

Entity-Relationship Diagram (ER Diagram) for YULU vehicle rental system.

Raw Materials
- Date
- Bill No.
- Supplier ID
- ManufacturerID
- Vehicle type ID
- No. of Vehicles
- Amount

Manufacturers
- Manufacturer ID
- Name
- Contact No.
- Email
- City
- Pincode

Manufacturer Transactions
- Date
- Manufacturer ID
- Employee ID
- Vehicle Type_ID
- No. of vehicles
- Vehicle Reg.No.

YULU OFFICE

Customers
- Customer ID
- First Name
- Last Name
- Mobile Number
- Address
- City
- Email ID

Vehicle Type
- Vehicle Type_ID
- Name

supply

Selects

Supplier Details
- Supplier ID
- Name
- Address
- Email
- Contact no.
- City
- Country

Order Details
- Date
- Order no.
- Supplier ID
- Employee ID
- Vehicle Type _ID
- No. of Vehicles

Employees
- Employee ID
- Dept Name
- First Name
- Last Name
- Gender
- Mobile Number
- Email ID
- Address
- City
- Country,pincode

YULUMIRACLE_Details
- Vehicle_type_ID
- Deposit_Amount
- Unlock_charges
- Subsequent_10min_ charges
- waiting_charges
- Number of vehicles

YULUMOVE_details
- Vehicle_Type_ID
- Deposit_Amount
- Cost_First_30_min
- Cost_subsequent_30_ min
- waiting charges_every_30_mi n
- Number of vehicles

TO

Orders

Payroll
- EmployeeID
- Dept name
- Name
- Salary

Maintenance details
- Vehicle Type ID
- Vehicle Reg No.
- Battery Available
- GPS_Location

Billing & Riding details
- Date
- Ride No.
- Customer ID
- Vehicle Type ID
- Vehicle Reg. No.
- Start Time
- Waiting Time
- End Time
- Distance Covered
- Start location
- End Location
- Total Amount

picks

pymt

Vehicle_Picked
- Customer_ID
- Vehicle_type_ID
- Vehicle Reg. No.
- QR code

YULU WALLET
- Customer ID
- Vehicle type ID
- Payment mode
- Security Amount
- Balance

Rides

DATA TABLES AND ENTRIES

	EmployeeID	Departmentname	First	Last	Gender	Mobile	Email	Address	City	Country	Pincode
1	1001	Operations	Rahul	Raj	male	9424553113	rahul@gmail.com	14/6 Grasim staff Colony	Mumbai	India	456331
2	1002	Operations	Gokul	Raj	male	8921233181	gokul@gmail.com	18/6 Grasim staff Colony	Mumbai	India	456331
3	1003	Operations	Kritika	Rai	female	9975874879	kririka@gmail.com	20/6 Grasim staff Colony	Mumbai	India	456331
4	1004	Operations	Rakhi	Nair	female	8456737289	rakhi@gmail.com	14/6 Grasim staff Colony	Mumbai	India	456331
5	1005	Operations	Rajendra	Nair	male	9765432156	rajendra@gmail.com	25/6 Grasim staff Colony	Mumbai	India	456331
6	1006	IT	Saara	Vashishtha	female	9736463434	saara@gmail.com	89/6 Grasim staff Colony	Mumbai	India	456331
7	1007	IT	Ashutosh	Vyas	male	9778837379	ashutosh@gmail.com	90/6 Grasim staff Colony	Mumbai	India	456331
8	1008	Marketing	Mayank	Chouhan	male	7846545360	Mayank@gmail.com	78/6 Grasim staff Colony	Mumbai	India	456331
9	1009	HR	Manveer	Rajawat	male	9837637467	manveer@gmail.com	99/6 Grasim staff Colony	Mumbai	India	456331
10	1010	HR	Vipin	Panicker	male	8736363664	vipin@gmail.com	88/6 Grasim staff Colony	Mumbai	India	456331

Grid view   Form view

Total rows loaded: 10

Filter data

create table Employees(EmployeeID
Integer Primary Key,
First Name Text Not Null,
Last Name Text Not Null,
Gender Text not null,
Mobile Number integer not null,
Email Not null unique,
Address Not Null,
City Not Null,
Country Not null,
Pincode integer(6) not null unique,
check(Gender in ('male','female','male')))

Insert into Employees values()
Alter table employees add
Departmentname text

SQLiteStudio (3.1.1) - [

Database Structure View Tools Help

Structure | Data | Constraints | Indexes | Triggers | DDL

Grid view | Form view

Filter data   Total rows loaded:

	Date	Order_no	Supplier_ID	Employee_ID	Vehicle_type_ID	No_of_Vehicles
1	10/03/2020	1	2001	1001	1	2
2	11/03/2020	2	2001	1002	1	3
3	11/03/2020	3	2002	1002	2	5
4	12/03/2020	4	2003	1003	2	6
5	13/03/2020	5	2004	1004	1	5
6	14/03/2020	6	2005	1005	2	7

Create table order_details
(Date text not null,
Order_no integer not null,
Supplier_ID integer not null,
Employee_ID integer not null,
Vehicle_type_ID integer not null,
No_of_Vehicles integer not null,
Foreign key(Supplier_ID) references Suppliers(SupplierID),
foreign key(Employee_ID) references
employees(employee),
foreign key(Vehicle_type_ID) references
vehicle_type(Vehicle_type_ID));

insert into order_details
values('10/03/2020','001','2001','1001','1','2'),('11/03/202
0','002','2001','1002','1','3'),('11/03/2020','003','2002','100
2','2','5'),('12/03/2020','004','2003','1003','2','6'),
('13/03/2020','005','2004','1004','1','5'),('14/03/2020','006
','2005','1005','2','7')

SQLiteStudio (3.1.1) - [Suppliers

Database Structure View Tools Help

Structure | Data | Constraints | Indexes | Triggers | DDL

Grid view | Form view

Filter data   Total rows loaded: 10

SupplierID	Name	Address	Email	Contact	City	Country
1	2001 xiong enterprises	786 xiong state	xiong@gmail.com	7865678490	wuhan	China
2	2002 chian enterprises	99 chian state	chian@gmail.com	9392379983	Beijing	China
3	2003 ching enterprises	796 ching state	ching@gmail.com	9908886667	Beijing	China
4	2004 chang enterprises	799 chang state	chang@gmail.com	9908848928	wuhan	China
5	2005 lion enterprises	100 lion state	lion@gmail.com	8899388999	Beijing	China
6	2006 leo enterprises	798 leo state	leo@gmail.com	7483739493	wuhan	China
7	2007 Saviour enterprises	123 Saviour state	Saviour@gmail.com	7474558858	wuhan	China
8	2008 scorpio enterprises	998 scorpio state	scorpio@gmail.com	8548958455	wuhan	China
9	2009 Aries enterprises	786 Aries state	Aries@gmail.com	4784892300	Beijing	China
10	2010 Virgo enterprises	786 virgo state	virgo@gmail.com	3889399020	Beijing	China

create table Suppliers
(SupplierID integer primary key ,
Name text not null,
Address not null,
Email not null unique,
Contact integer not null,
City text not null,
Country text not null)

Insert Into Suppliers
values('2001','xiong enterprises','786 xiong
state','xiong@gmail.com','7865678490','wuhan','
China'),
('2002','chian enterprises','99 chian
state','chian@gmail.com','9392379983','Beijing','
China'),
('2003','ching enterprises','796 ching
state','ching@gmail.com','9908886667','Beijing','
China'),
('2004','chang enterprises','799 chang
state','chang@gmail.com','9908848928','wuhan','
China') …………………………………………..

Database Structure View Tools Help

Structure | Data | Constraints | Indexes | Triggers | DDL

Grid view | Form view

Filter data | Total rows loa

Date	bill_no	Supplier_ID	Manufacturer_ID	Vehicle_type_ID	No_of_Vehicles
1 10/03/2020	1	2001	3001	1	2
2 11/03/2020	2	2001	3002	1	3
3 11/03/2020	3	2002	3002	2	5
4 12/03/2020	4	2003	3003	2	6
5 13/03/2020	5	2004	3004	1	5
6 14/03/2020	6	2005	3005	2	7

```
create table raw_materials
(Date text not null,
bill_no integer primary key not null,
Supplier_ID integer not null,
Manufacturer_ID integer not null,
Vehicle_type_ID integer not null,
No_of_Vehicles integer not null,Foreign
key(Supplier_ID) references Suppliers(SupplierID),
foreign key(Manufacturer_ID) references
manufacturers(ManufacturerID),
foreign key(Vehicle_type_ID) references
vehicle_type(Vehicle_type_ID))

insert into raw_materials
values('10/03/2020','01','2001','3001','1','2'),('11/03
/2020','02','2001','3002','1','3'),('11/03/2020','03','2
002','3002','2','5'),('12/03/2020','04','2003','3003','2'
,'6'),
('13/03/2020','05','2004','3004','1','5'),('14/03/2020'
,'06','2005','3005','2','7')
```

Database   Structure   View   Tools   Help

Structure | Data | Constraints | Indexes | Triggers | DDL

Grid view | Form view

Filter data   Total rows loaded: 10

	ManufacturerID	Name	Contact	Email	City	Pincode
1	3001	Rubees & Rubees	9090807647	rubees@gmail.com	Delhi	456991
2	3002	Sharma manufacturers	9564786578	sharma@gmail.com	Delhi	498745
3	3003	Kanchan Enterprises	7889457689	Kanchan@gmail.com	Mumbai	457849
4	3004	Saraswati	9476367899	saraswati@gmail.com	Chennai	476845
5	3005	Oswal organisation	7876453678	Oswal@gmail.com	Delhi	400001
6	3006	Sejal Manufacturers	9484736459	Sejal@gmail.com	Bengaluru	478473
7	3007	Somya Enterprises	8946374658	Somya@gmail.com	Bengaluru	458746
8	3008	Angel workshop	9097447568	Angel@gmail.com	Bengaluru	485674
9	3009	youth manufacturers	9926564198	youth@gmail.com	Delhi	456891
10	3010	rashi manufacturers	9984756839	rashi@gmail.com	Delhi	458991

Create table Manufacturers (ManufacturerID integer primary key not null,
Name text not null,
Contact No integer not null,
Email text not null unique,
City text not null,
Pincode integer not null Unique)

Insert into manufacturers values('3001','Rubees & Rubees','9090807647','rubees@gmail.com','Delhi','456991'),('3002','Sharma manufacturers','9564786578','sharma@gmail.com','Delhi','498745'),('3003','KanchanEnterprises','7889457689','Kanchan@gmail.com','Mumbai','457849'),('3004','Saraswati','9476367899','saraswati@gmail.com','Chennai','476845')…………………………………………………………

Grid view | Form view

Filter data ▼ | Total rows loaded: 6

	Date	serial_no	Manufacturer_ID	Employee_ID	Vehicle_Type_ID	No_of_vehicles	Vehicle Reg. No.
1	10/03/2020	1	3001	1001	1	2	9090,9890
2	11/03/2020	2	3001	1002	1	3	9888,8345,5467
3	11/03/2020	3	3002	1002	2	5	8767,8567,3456,1234,6467
4	12/03/2020	4	3003	1003	2	6	7777,8888,9999,1111,4444,3333
5	13/03/2020	5	3004	1004	1	5	2020,3030,4040,8080,5050
6	14/03/2020	6	3005	1005	2	7	4443,3334,5554,5666,7774,5556,7778

```
create table manufacturer_transactions
(Date text not null,
serial_no integer primary key not null,
Manufacturer_ID integer not null,
Employee_ID integer not null,
Vehicle_Type_ID integer not null,
No_of_vehicles integer not null,
Vehicle Reg.No. Integer not null,
Foreign key(manufacturer_ID) references
MAnufacturers(manufacturerID),
foreign key(Employee_ID) references
employees(employeeID),
foreign key(Vehicle_type_ID) references
vehicle_type(Vehicle_type_ID));


insert into manufacturer_transactions
values('10/03/2020','01','3001','1001','1','2','9090,9
890')………………………………
```

Grid view | Form view

Filter data | Total rows loaded: 10

	CustomerID	First	Last	Mobile	Address	City	Pincode	Email
1	4001	Vaibhavi	Singh	9098476356	89/4 Government Colony	Mumbai	456773	vaibhavi@gmail.com
2	4002	disha	sahani	8763456789	506 sector 07 bishop colony	Delhi	400098	disha@gmail.com
3	4003	Rohan	Chopra	8763357789	Rangeela colony	Bengaluru	407898	Rohan@gmail.com
4	4004	Khush	Menon	8063116709	Dwarka Sector	Delhi	411198	Khush@gmail.com
5	4005	Vishal	K	8768976789	XYZ Colony	Bengaluru	402561	Vishal@gmail.com
6	4006	Nihal	Iyer	8063456789	Durgapura colony	Mumbai	463788	nihal@gmail.com
7	4007	Suhaani	Thabar	7837648590	Malviya Nagar	Delhi	476598	Suhaani@gmail.com
8	4008	Pragya	Dubey	8761156789	14/6 Grasim staff colony	Mumbai	476456	pragya@gmail.com
9	4009	Rhea	Mishra	8456739398	Ganga Vihar	Bengaluru	400088	Rhea@gmail.com
10	4010	Ruhaan	khan	8732856789	Navy Quarters	Bengaluru	487898	ruhaan@gmail.com

Create table customers
(CustomerID integer primary key not null,
First Name Text Not null,
Last Name Text Not null,
Mobile Integer not null,
Address text not null,
City text not null,
Pincode integer not null unique,
Email text not null unique)

insert into customers
values('4001','Vaibhavi','Singh','9098476356','89/4
Government
Colony','Mumbai','456773','vaibhavi@gmail.com'),
('4002','disha','sahani','8763456789','506 sector 07
bishop colony','Delhi','400098','disha@gmail.com'),
('4003','Rohan','Chopra','8763357789','Rangeela
colony','Bengaluru','407898','Rohan@gmail.com'),
....

Grid view | Form view

	Vehicle_Type_ID	Name
1	1	YULU MOVE
2	2	YULU MIRACLE

```
Create table vehicle_type
(Vehicle_Type_ID Integer primary key Not Null,
Name text not null)


insert into vehicle_type
values ('1','YULU MOVE'),('2','YULU MIRACLE')
```

Database   Structure   View   Tools   Help

Structure | Data | Constraints | Indexes | Triggers | DDL

Grid view | Form view

	EmployeeID	Departmentname	Name	Salary
1	1001	Operations	Rahul Raj	1000000
2	1002	Operations	Gokul Raj	1000000
3	1003	Operations	Kritika Rai	1000000
4	1004	Operations	Rakhi Nair	1000000
5	1005	Operations	Rajendran Nair	1000000
6	1006	IT	Saara Vashishtha	1000000
7	1007	IT	Ashutosh Vyas	1000000
8	1008	Marketing	Mayank Chouhan	1000000
9	1009	HR	Manveer Rajawat	1000000
10	1010	HR	Vipin Panicker	1000000

```
Create table Payroll
(EmployeeID integer,
Departmentname text,
Name text,
Salary integer,foreign key(EmployeeID) references
employees(employeeID))

Insert into Payroll
Values('1001','Operations','Rahul Raj','1000000'),
('1002','Operations','Gokul
Raj','1000000'),('1003','Operations','Kritika
Rai','1000000'),('1004','Operations','Rakhi
Nair','1000000'),('1005','Operations','Rajendran
Nair','1000000')
```

SQLiteStudio (3.1.1) -

Database   Structure   View   Tools   Help

Structure | **Data** | Constraints | Indexes | Triggers | DDL

Grid view | Form view

Filter data   Total rows load

	Customer_ID	Vehicle_type_ID	Payment_mode	Security_Amount	Balance
1	4001	1	UPI ID	100	60
2	4001	2	UPI ID	250	60
3	4005	1	Net banking	100	90
4	4004	2	card	250	100
5	4003	1	UPI ID	100	200

```
create table YULU_WALLET
(Customer_ID integer not null,
Vehicle_type_ID integer not null,
Payment_mode text not null,
Security_Amount integer not null,
Balance integer not null,foreign
key(Customer_ID) references
customers(CustomerID),foreign
key(vehicle_type_ID) references
vehicle_type(vehicle_type_ID))

insert into YULU_WALLET
values('4001','1','UPI
ID','100','60'),('4001','2','UPI
ID','250','60'),('4005','1','Net
banking','100','90'),('4004','2','card','250','100
'),('4003','1','UPI ID','100','200')
```

Database Table View

Menu: Database | Structure | View | Tools | Help

Tabs: Structure | Data | Constraints | Indexes | Triggers | DDL

Sub-tabs: Grid view | Form view

Filter d...

	Customer_ID	Vehicle_type_ID	Vehicle_Reg_No	QRCODE
1	4005	1	9080	10011111
2	4001	1	9090	10101010
3	4002	2	9091	11010101
4	4004	1	9099	11100011
5	4003	1	9890	11111111

Create table Vehicle_Picked
(Customer_ID integer not null unique,
Vehicle_type_ID integer not null,
Vehicle_Reg_No integer primary key not null unique,
QRCODE integer not null unique,foreign
key(Customer_ID) references
customers(CustomerID),foreign key(vehicle_type_ID)
references vehicle_type(vehicle_type_ID))

insert into Vehicle_Picked
values('4001','1','9090','10101010'),('4002','2','9091'
,'11010101'),('4003','1','9890','11111111'),('4004','1'
,'9099','11100011'),('4005','1','9080','10011111')

YULUMOVE_details

	Vehicle_type_ID	Deposit_Amount	Cost_First_30_min	Cost_subsequent_30_min	waiting	No_ofvehicles
1	1	100	10	5	5	100

Structure | Data | Constraints | Indexes | Triggers | DDL
Grid view | Form view
Filter data — Total rows loa...

```
Create table YULUMOVE_details
(Vehicle_type_ID integer not null,
Deposit_Amount integer not null,
Cost_First_30_min integer not
null,Cost_subsequent_30_min integer not
null,waiting charges_every_30_min integer not
null,No_of vehicles integer not null, foreign
key(vehicle_type_ID) references
vehicle_type(vehicle_type_ID))

insert into YULUMOVE_details
values('100','10','5','5','100')
```

YULUMIRACLE_Details

	Vehicle_type_ID	Deposit_Amount	Unlock_charges	Subsequent_10min_charges	waiting_charges	No_ofVehicles
1	2	250	10	10	5	500

Structure | Data | Constraints | Indexes | Triggers | DDL
Grid view | Form view
Filter data — Total rows loaded: 1

```
create table YULUMIRACLE_Details
(Vehicle_type_ID integer not null,
Deposit_Amount integer not
null,Unlock_charges,Subsequent_10min_charges
integer not null,waiting_charges integer not
null,No_ofvehicles integer not null, foreign
key(vehicle_type_ID) references
vehicle_type(vehicle_type_ID))

insert into YULUMIRACLE_details
values('250','10','10','5','500')
```
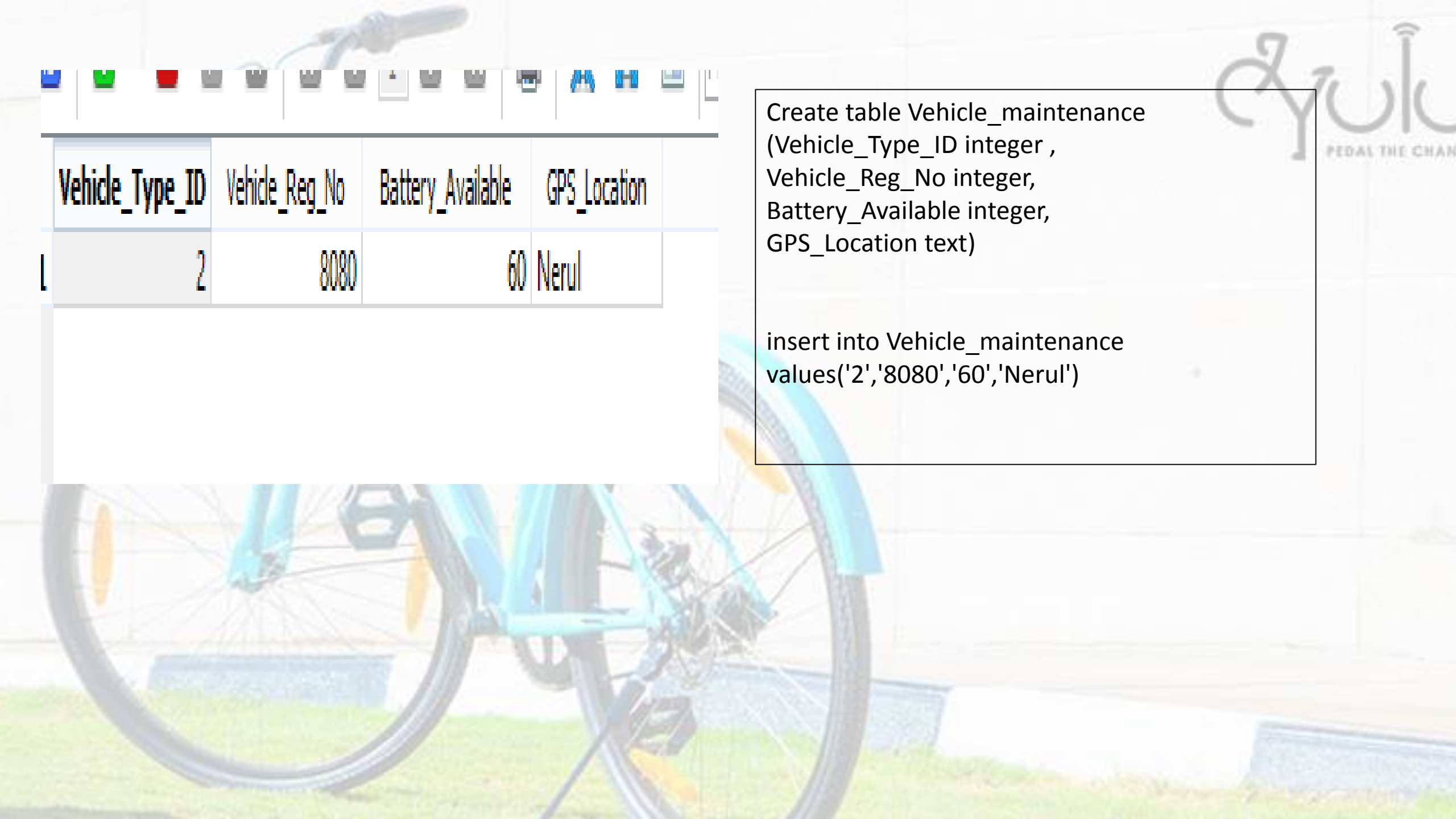
	Date	Ride_No	Customer_ID	Location	Vehicle_Type_ID	Vehicle_Req_No	Start_Time	Waiting time	End_Time	Start_location	End_location	Distance_Covered	Total_Amount
1	14/03/2020	1	4001	mumbai	1	9090	17:00 PM	-	18:00 PM	Colaba	colaba	4 km	15
2	14/03/2020	2	4002	mumbai	2	9091	17:00 PM	-	18:00 PM	Nerul	nerul	4 km	60
3	15/03/2020	3	4003	Mumbai	1	9890	16:00 PM	-	18:00 PM	hiranandani garden	seawoods	8 km	25
4	15/03/2020	4	4004	mumbai	1	9099	15:00 PM	-	18:00 PM	seawoods	seawoods	16 km	35
5	15/03/2020	5	4005	mumbai	1	9080	17:00 PM	-	18:00 PM	Belapur	belapur	4 km	15

```
create table ride_details
(Date text not null,Ride_No integer not null,Customer_ID integer not null,Location text not null,Vehicle_Type_ID integer not
null,Vehicle_Reg_No integer not null,Start_Time integer not null,Waiting Time Integer Not Null,End_Time integer not
null,Start_Location Text not null,End_Location Text not null,Distance_Covered integer not null,Amount integer,
foreign key(Vehicle_type_ID) references vehicle_type(Vehicle_type_ID),foreign key(Customer_ID) references
customers(customerID),foreign key(Vehicle_Reg_no) references vehicle_picked(Vehicle_reg_no))
insert into ride_details
values('14/03/2020', '01','4001','Mumbai','1','9090','17:00 PM','18:00 PM','colaba,'colaba','4
km','15'),.....................
```

Vehicle_Type_ID	Vehicle_Reg_No	Battery_Available	GPS_Location
2	8080	60	Nerul

Create table Vehicle_maintenance
(Vehicle_Type_ID integer ,
Vehicle_Reg_No integer,
Battery_Available integer,
GPS_Location text)

insert into Vehicle_maintenance
values('2','8080','60','Nerul')