NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CS-254

DATABASE MANAGEMENT SYSTEMS

TRANSPORTATION AND CARGO SERVICE

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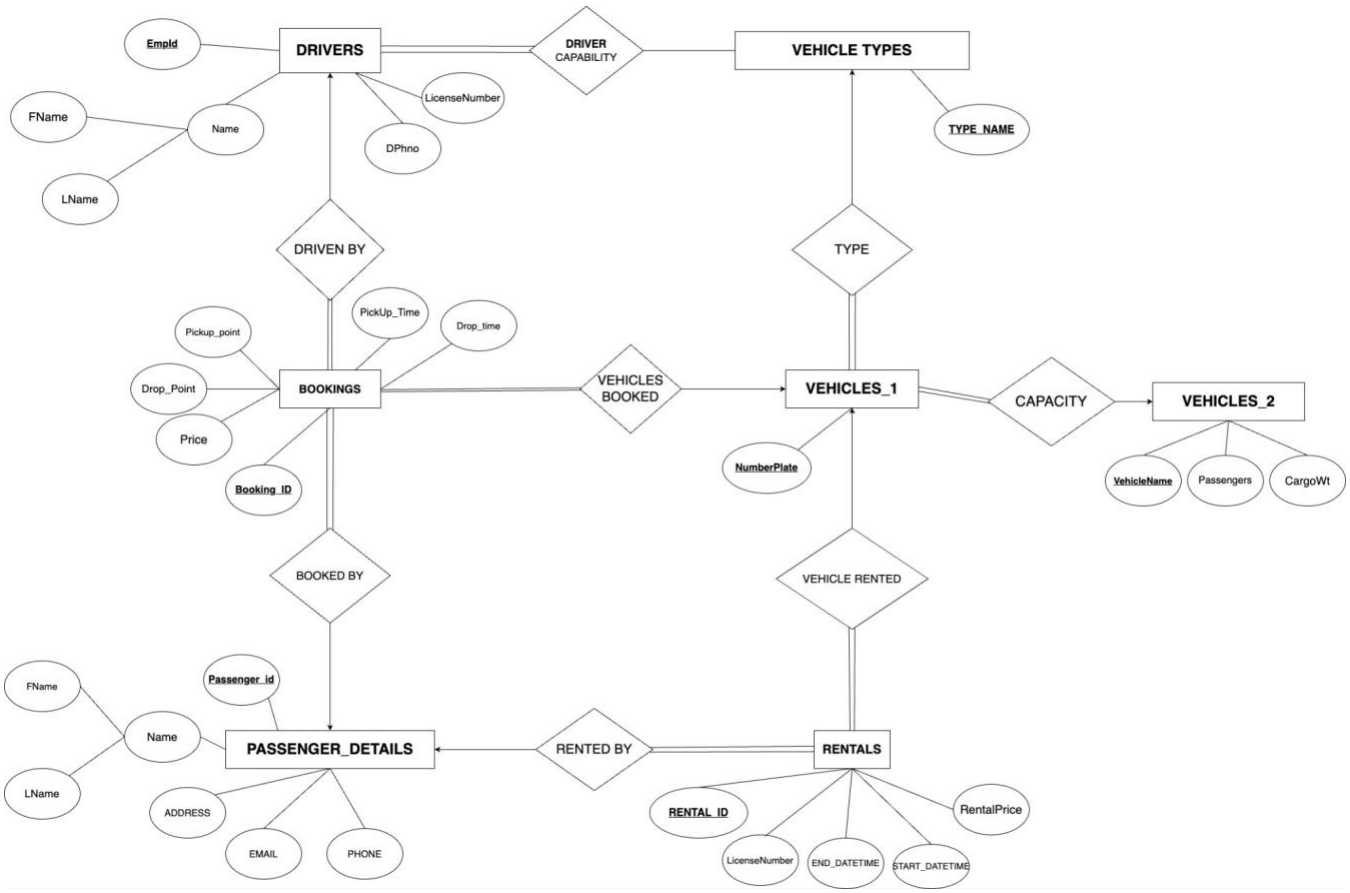
AIM

The aim of this project is to create a database for transportation, cargo and rental services in the state of Telangana.
The database contains tables for passengers, drivers and different types of vehicles. A passenger can make bookings as well as rent vehicles. Each booking and rental is stored in its corresponding table

ER DIAGRAM



LINK FOR ER DIAGRAM

ASSUMPTIONS

- Each passenger is uniquely identified by passenger_id. A passenger can make multiple bookings and rent multiple vehicles.
- Each driver is uniquely identified by Emp_id. A driver can be booked for multiple bookings as long as the timings don’t clash. A driver can drive more than one type of vehicle.
- Each vehicle can be identified with its unique NumberPlate. Each vehicle can be of one type. Each vehicle has only one vehicle name.
- 4 vehicle types exist in this database. Each vehicle is one of the four types.
- Each booking is uniquely identified by booking_id. The passenger can choose the pickup and destination locations and the timings, along with the type of vehicle. The system will assign a suitable driver to that booking.
- Each rental record is uniquely identified by Rental_ID. The passenger can choose the start and end time, along with the type of vehicle to be rented.

CONVERSION OF ER MODEL TO RELATIONAL MODEL

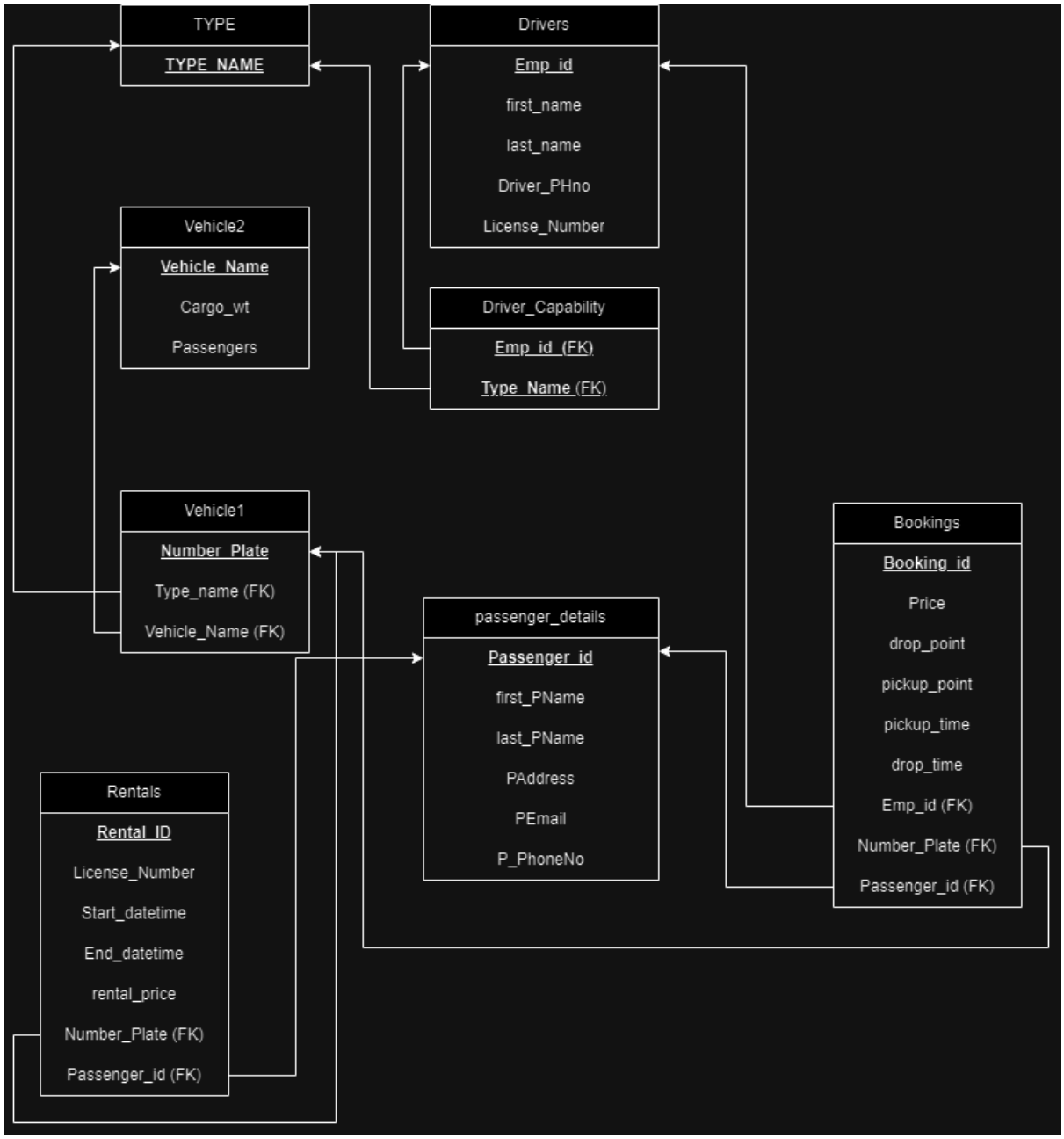
1) Vehicle1
    a) Since the entity set Vehicle1 is connected to Type in many-one relationship with full participation, the primary key of Type has been added as foreign key to Vehicle1.
    b) Since entity set Vehicle1 is connected to Vehicle2 in many-one relationship with full participation, the primary key of Vehicle2 has to be added as foreign key to Vehicle1.
    c) Attributes of Vehicle1: NumberPlate, Type_Name, VehicleName
    d) Primary key: NumberPlate
2) Vehicle2
    a) Attributes of Vehicle2: VehicleName, Passengers, Cargo_Weight
    b) Primary Key: VehicleName
3) Type
    a) Attributes of Type: Type_Name
    b) Primary KeyL Type_Name
4) Drivers
    a) Attributes of Drivers: Emp_ID, DFname,Dlname,DphoneNo,LicenseNumber
    b) Primary Key: Emp_ID
5) Passengers
    a) Attributes of Passengers: Passenger_ID, Fname, Lname, Address, Email, Phone
    b) Primary Key: Passenger_ID
6) Bookings
    a) Since the entity set Bookings is connected with Drivers in a many-one relationship with full participation, the primary key of Drivers has to be added as foreign key to Bookings.
    b) Since the entity set Bookings is connected with Passengers in many-one relationship with full participation, the primary

key of Passengers has to be added as foreign key to Bookings.

c) Since the entity set Bookings is connected with Vehicle1 in many-one relationship with full participation, the primary key of Vehicle1 has to be added as foreign key to Bookings.
d) Attributes of Bookings: Booking_ID, Pickup_Point, Drop_point, Price, Pickup_time, drop_time, emp_id, passenger_id, Number_Plate
e) Primary Key: Booking_ID

7) Rentals
   a) Since the entity set Rentals is connected with Passengers in many-one relationship with full participation, the primary key of Passengers has to be added as foreign key to Rentals.
   b) Since the entity set Rentals is connected with Vehicle1 in many-one relationship with full participation, the primary key of Vehicle1 has to be added as foreign key to Rentals.
   c) Attributes of Rentals: Rental_ID, LicenseNumber, Start_datetime, End_datetime, Rental_price
   d) Primary Key: Rental_ID
8) Driver Capability
   a) Since the entity sets Drivers and Type are connected in many-many relationship with full participation from Drivers, a new table Driver Capability should be created with primary key Emp_ID of Drivers and primary key Type_Name of Type as foreign keys in Driver Capability.
   b) Attributes of Driver Capability: Emp_ID, Type_Name
   c) Primary Key: {Emp_ID,Type_Name}

RELATIONAL SCHEMA



[LINK FOR RELATIONAL SCHEMA]

FUNCTIONAL DEPENDENCIES AND NORMALIZATION

1) Vehicle1
    a) NumberPlate → {Type_Name, VehicleName}
    b) Since NumberPlate is a key, all functional dependencies are of the form X → Y and X is a superkey. Thus, Vehicle1 is in BCNF
2) Vehicle2
    a) VehicleName → {passengers,Cargo_Weight}
    b) Since VehicleName is a key, all functional dependencies are of the form X → Y and X is a superkey. Thus, Vehicle2 is in BCNF.
3) Type
    a) Type only contains one attribute. It is in BCNF.
4) Drivers
    a) Emp_ID → {Fname, Lname,DphoneNo,LicenseNumber}
    b) LicenseNumber → {Emp_ID}
    c) Since Emp_ID and LicenseNumber are keys, all functional dependencies are of the form X → Y and X is a superkey. Thus, Drivers is in BCNF.
5) Passengers

a) Passenger_Id → {Fname,Lname,Address,Phone,Email}
b) Email → {Passenger_ID}
c) Since Passenger_ID and Email are keys, all functional dependencies are of the form X → Y and X is a superkey. Thus, Passengers is in BCNF.

6) Bookings
   a) Booking_ID → {Pickup_Point, Drop_point, Price, Pickup_time, drop_time, emp_id, passenger_id, Number_Plate}
   b) Since Booking_ID is a key, all functional dependencies are of the form X → Y and X is a superkey. Thus, Bookings is in BCNF.

7) Rentals
   a) Rental_ID → {LicenseNumber, Start_datetime, End_datetime, Rental_price}
   b) Since Rental_ID is a key, all functional dependencies are of the form X → Y and X is a superkey. Thus, Rentals is in BCNF.

8) Driver Capability
   a) {Emp_ID, Type_Name} is a key

b) Since {Emp_ID,Type_Name} together form a key, Driver Capability is in BCNF.

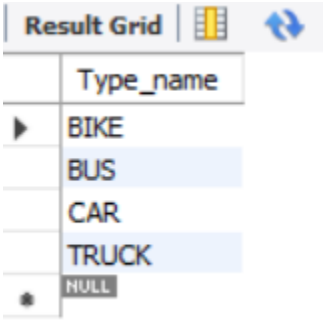
CREATION OF TABLES AND INSERTION OF DATA

1. TYPE :

   This table contains the different types of vehicles that can be rented or can be booked.

```
Create table Type(
    Type_name varchar(10),
    primary key (Type_name)
);
```

```
insert into type values ('BIKE');
insert into type values ('BUS');
insert into type values ('CAR');
insert into type values ('TRUCK');
```

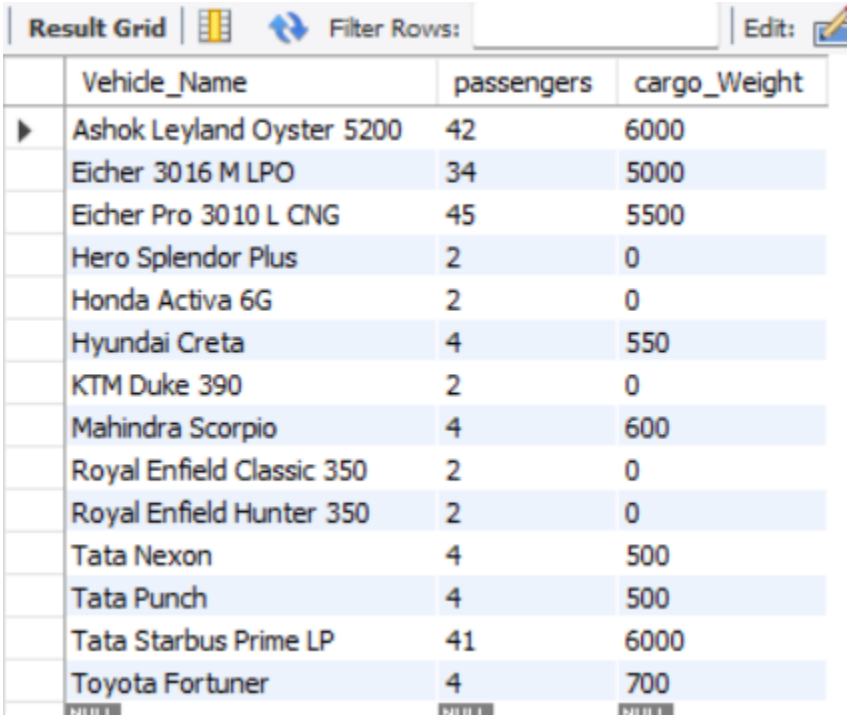


2. Vehicle2 :

This table consists of all different types of vehicles, the number of passengers permitted and max cargo weight.

```
create table Vehicle2(
   Vehicle_Name varchar(50),
   passengers int,
   cargo_Weight int,
   primary key (Vehicle_Name)
);

insert into Vehicle2 values('Tata Punch',4,500);
insert into Vehicle2 values('Hyundai Creta',4,550);
insert into Vehicle2 values('Tata Nexon',4,500);
insert into Vehicle2 values('Mahindra Scorpio',4,600);
insert into Vehicle2 values('Toyota Fortuner',4,700);
insert into Vehicle2 values('Royal Enfield Classic 350',2,0);
insert into Vehicle2 values('Royal Enfield Hunter 350',2,0);
insert into Vehicle2 values('KTM Duke 390',2,0);
insert into Vehicle2 values('Hero Splendor Plus',2,0);
insert into Vehicle2 values('Honda Activa 6G',2,0);
insert into Vehicle2 values('Tata Starbus Prime LP',
41,6000);
insert into Vehicle2 values('Eicher 3016 M LPO',34,5000);
insert into Vehicle2 values('Eicher Pro 3010 L
CNG',45,5500);
insert into Vehicle2 values('Ashok Leyland Oyster
5200',42,6000);
```



Result Grid | Filter Rows: | Edit:

Vehicle_Name	passengers	cargo_Weight
Ashok Leyland Oyster 5200	42	6000
Eicher 3016 M LPO	34	5000
Eicher Pro 3010 L CNG	45	5500
Hero Splendor Plus	2	0
Honda Activa 6G	2	0
Hyundai Creta	4	550
KTM Duke 390	2	0
Mahindra Scorpio	4	600
Royal Enfield Classic 350	2	0
Royal Enfield Hunter 350	2	0
Tata Nexon	4	500
Tata Punch	4	500
Tata Starbus Prime LP	41	6000
Toyota Fortuner	4	700

3. Vehicle1 :

This table contains the vehicle's number plate along with its type.

```
create table Vehicle1(
    Number_Plate varchar(20),
    Type_name varchar(10),
    Vehicle_Name varchar(50),
    primary key (Number_Plate),
    foreign key (Type_name) references
Type(Type_name),
    foreign key (Vehicle_Name) references
Vehicle2(Vehicle_Name)
);
```

```
INSERT INTO Vehicle1 values ('TS18FV9913', 'CAR', 'Tata Punch');
insert into Vehicle1 values ('TS84FV0161' ,'BIKE','KTM Duke 390');
insert into Vehicle1 values ('TS02FV4244','CAR','Mahindra Scorpio');
insert into Vehicle1 values ('TS82FV9299','CAR','Tata Nexon');
insert into Vehicle1 values ('TS33FV7765','BIKE','Royal Enfield Hunter 350');
insert into Vehicle1 values ('TS64FV2105','BUS','Eicher Pro 3010 L CNG');
insert into Vehicle1 values ('TS81FV0563','CAR','Mahindra Scorpio');
insert into Vehicle1 values ('TS29FV7526','CAR','Toyota Fortuner');
insert into Vehicle1 values ('TS55FV4356','BUS','Ashok Leyland Oyster 5200');
insert into Vehicle1 values ('TS30FV1973','BUS','Ashok Leyland Oyster 5200');
```

Number_Plate	Type_name	Vehicle_Name
TS02FV4244	CAR	Mahindra Scorpio
TS18FV9913	CAR	Tata Punch
TS29FV7526	CAR	Toyota Fortuner
TS30FV1973	BUS	Ashok Leyland Oyster 5200
TS33FV7765	BIKE	Royal Enfield Hunter 350
TS55FV4356	BUS	Ashok Leyland Oyster 5200
TS64FV2105	BUS	Eicher Pro 3010 L CNG
TS81FV0563	CAR	Mahindra Scorpio
TS82FV9299	CAR	Tata Nexon
TS84FV0161	BIKE	KTM Duke 390

4. Drivers :

This table consists of all the personal details of a driver like name, phone number, employee id etc.

```
create table Drivers(
    EmpID varchar(20),
    first_Name varchar(50),
    last_Name varchar(50),
    Driver_PhoneNo varchar(10),
    License_Number varchar(50),
    primary key (EmpID)
);


insert into Drivers values
('XDrHBxf','Lavanya','Mhasalkar','7118064570','2789465392');
insert into Drivers values
('Uc6qx6j','Niketa','Korrapati','7978238910','2421306863');
insert into Drivers values
('hrmGruC','Reena','Begam','5044083378','8290275170');
insert into Drivers values
('txmm3Hb','Sushil','Begum','9307445494','9973891437');
insert into Drivers values
('9YpjE6D','Kavi','Ahmed','6199120362','0389739116');
```

```
insert into Drivers values
('jvUw39z','Madhukar','Sharma','0694613377','2300781
328');
insert into Drivers values
('KNuq2my','Abhay','Gupta','5725059497','1939401419'
);
insert into Drivers values
('j3M09GF','Mitul','Das','2538137786','2666425926');
insert into Drivers values
('hMdQc8i','Pratibha','Chaudhri','4475010510','0719078
086');
insert into Drivers values
('2Gfuy1r','Nilofar','Jain','3107754692','9005285646');
```

Result Grid | Filter Rows: | Edit:

EmpID	first_Name	last_Name	Driver_PhoneNo	License_Number
2Gfuy1r	Nilofar	Jain	3107754692	9005285646
9YpjE6D	Kavi	Ahmed	6199120362	3107754692 16
hMdQc8i	Pratibha	Chaudhri	4475010510	0719078086
hrmGruC	Reena	Begam	5044083378	8290275170
j3M09GF	Mitul	Das	2538137786	2666425926
jvUw39z	Madhukar	Sharma	0694613377	2300781328
KNuq2my	Abhay	Gupta	5725059497	1939401419
txmm3Hb	Sushil	Begum	9307445494	9973891437
Uc6qx6j	Niketa	Korrapati	7978238910	2421306863
XDrHBxf	Lavanya	Mhasalkar	7118064570	2789465392

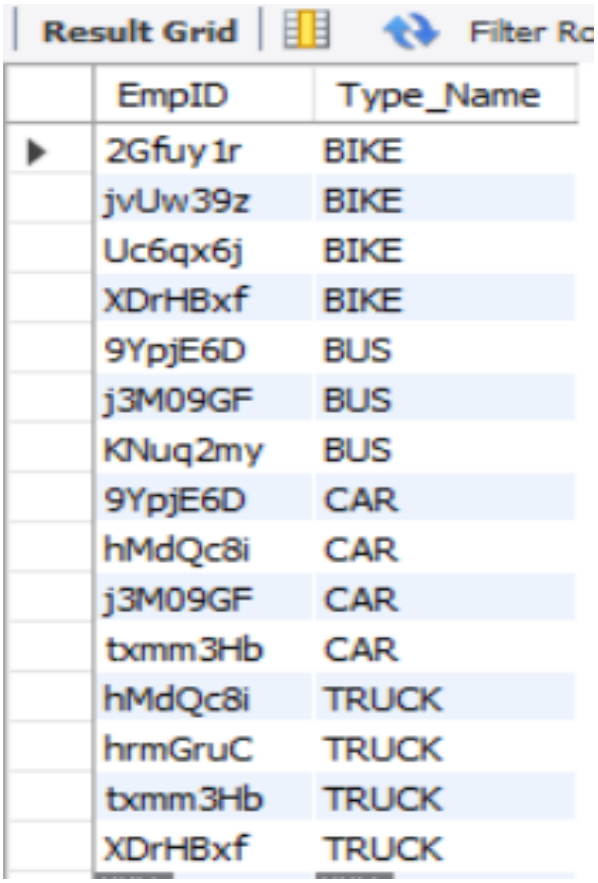
5. Driver_Capability :

This table consists of the employee id and the type of vehicles they can drive.

```
create table Driver_Capability(
    EmpID varchar(20),
    Type_Name varchar(10),
    primary key (EmpID,Type_Name),
    foreign key (EmpID) references Drivers(EmpID),
    foreign key (Type_Name) references
Type(Type_Name)
);
```

```
insert into Driver_Capability values ('2Gfuy1r', 'BIKE');
insert into Driver_Capability values ('9YpjE6D', 'BUS');
insert into Driver_Capability values ('hMdQc8i', 'CAR');
insert into Driver_Capability values ('hrmGruC',
'TRUCK');
insert into Driver_Capability values ('j3M09GF', 'CAR');
insert into Driver_Capability values ('jvUw39z', 'BIKE');
insert into Driver_Capability values ('KNuq2my', 'BUS');
insert into Driver_Capability values ('txmm3Hb', 'CAR');
insert into Driver_Capability values ('Uc6qx6j', 'BIKE');
insert into Driver_Capability values ('XDrHBxf',
'TRUCK');
insert into Driver_Capability values ('hMdQc8i',
'TRUCK');
insert into Driver_Capability values ('XDrHBxf', 'BIKE');
```

```
insert into Driver_Capability values ('9YpjE6D', 'CAR');
insert into Driver_Capability values ('j3M09GF', 'BUS');
insert into Driver_Capability values ('txmm3Hb',
'TRUCK');
```



Result Grid | Filter Rc

EmpID	Type_Name
2Gfuy1r	BIKE
jvUw39z	BIKE
Uc6qx6j	BIKE
XDrHBxf	BIKE
9YpjE6D	BUS
j3M09GF	BUS
KNuq2my	BUS
9YpjE6D	CAR
hMdQc8i	CAR
j3M09GF	CAR
txmm3Hb	CAR
hMdQc8i	TRUCK
hrmGruC	TRUCK
txmm3Hb	TRUCK
XDrHBxf	TRUCK

6. Passenger_details :

This table consists of personal details of the passengers and a unique passenger id.

```
create table passenger_details(
    passenger_ID varchar(20),
    first_PName varchar(50),
    last_PName varchar(50),
    PAddress varchar(100),
    PEmail varchar(50),
    P_PhoneNo varchar(10),
    primary key (passenger_ID)
);

insert into passenger_details values ('W6hsmEv', 'Nithya',
'Kshitij', 'Sathenapalli,Warangal', 'nk2233@gmail.com',
'9879832176');
insert into passenger_details values ('cIHDE44', 'Prabodh',
'Chandrakanta', 'Wadepally,Hanamkonda',
'pcgg11@gmail.com', '7897654302');
insert into passenger_details values ('Vorgp7Q', 'Shobha',
' Mala', 'Gachibowli,Hyderabad', 'smd34@gmail.com',
'8388456710');
insert into passenger_details values ('zunv6b8', 'Sanjeet',
'Gayathri', 'Bachupally,Hyderabad',
'iamsang123@gmail.com', '8761412305');
insert into passenger_details values ('9Zes4sA', 'Lalitha',
'Mohini', 'Arsapally,Nizambad', 'lmohini100@gmail.com',
'7689012311');
```

```
insert into passenger_details values ('pc635mI', 'Anjali',
'Viraj', 'HiTech,Hyderabad', 'anjavi111@gmail.com',
'6565787901');
insert into passenger_details values ('W6GAJuX',
'Namrata', 'Madhuri', 'AnandNagar,Nizambad',
'xnmx@gmail.com', '9810298776');
insert into passenger_details values ('N7Q5kkX',
'Sandhya', 'Patel', 'Sathenapalli,Warangal',
'spdfgg@gmail.com', '6789120345');
insert into passenger_details values ('SIjr38V', 'Abhilash',
'Ashok', 'HiTech,Hyderabad', 'aace22@gmail.com',
'8612340987');
insert into passenger_details values ('LgT59K2', 'Sumati',
'Jain', 'Bachupally,Hyderabad', 'sjisepic360@gmail.com',
'8388412176');
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content

passenger_ID	first_PName	last_PName	PAddress	PEmail	P_PhoneNo
9Zes4sA	Lalitha	Mohini	Arsapally,Nizambad	lmohini100@gmail.com	7689012311
cIHDE44	Prabodh	Chandrakanta	Wadepally,Hanamkonda	pcgg11@gmail.com	7897654302
LgT59K2	Sumati	Jain	Bachupally,Hyderabad	sjisepic360@gmail.com	8388412176
N7Q5kkX	Sandhya	Patel	Sathenapalli,Warangal	spdfgg@gmail.com	6789120345
pc635mI	Anjali	Viraj	HiTech,Hyderabad	anjavi111@gmail.com	6565787901
SIjr38V	Abhilash	Ashok	HiTech,Hyderabad	aace22@gmail.com	8612340987
Vorgp7Q	Shobha	Mala	Gachibowli,Hyderabad	smd34@gmail.com	8388456710
W6GAJuX	Namrata	Madhuri	AnandNagar,Nizambad	xnmx@gmail.com	9810298776
W6hsmEv	Nithya	Kshitij	Sathenapalli,Warangal	nk2233@gmail.com	9879832176
zunv6b8	Sanjeet	Gayathri	Bachupally,Hyderabad	iamsang123@gmail.com	8761412305

7. Rentals :

This table consists of details about rentals like passenger id of the person renting the vehicle , starting time and ending time of a rental and its price.

```
create table Rentals(
    Rental_ID varchar(20),
    License_Number varchar(10),
    Start_datetime TIMESTAMP,
    end_datetime TIMESTAMP,
    Number_Plate varchar(20),
    passenger_ID varchar(20),
    rentalPrice int,
    primary key (Rental_ID),
    foreign key (Number_Plate) references
Vehicle1(Number_Plate),
    foreign key (passenger_ID) references
passenger_details(passenger_ID)
);
```

```
insert into Rentals values('Cm7AT9X','1760715680','2024-
01-07 09:00:00', '2024-01-08
09:00:00','TS64FV2105','W6hsmEv',3600);
insert into Rentals values('2UHRqWY','3491387072',
'2024-01-15 12:00:00', '2024-01-20 9:00:00',
'TS81FV0563','SIjr38V',6000);
insert into Rentals values('Tz7TptT','5047687516', '2024-
01-21 10:00:00', '2024-01-22 9:00:00',
'TS18FV9913','cIHDE44',2000);
```

```
insert into Rentals values('TjQ8RnD','2879107715', '2024-01-27 14:00:00', '2024-01-30 9:00:00', 'TS84FV0161','N7Q5kkX',2200);
insert into Rentals values('maMmGnS','7410963772', '2024-01-30 20:00:00', '2024-02-04 9:00:00', 'TS29FV7526','9Zes4sA',5000);
insert into Rentals values('VMc2EvB','0605930593', '2024-02-24 12:00:00', '2024-02-25 9:00:00', 'TS55FV4356','W6hsmEv',3000);
insert into Rentals values('qTGf8EN','3080016182', '2024-02-28 9:00:00', '2024-03-01 9:00:00', 'TS64FV2105','LgT59K2',3000);
insert into Rentals values('k6EDEtE','0261395656', '2024-03-04 9:00:00', '2024-03-10 9:00:00', 'TS84FV0161','SIjr38V',10000);
insert into Rentals values('ak1XUtF','9688722515', '2024-03-16 7:00:00', '2024-03-17 9:00:00', 'TS64FV2105','N7Q5kkX',3600);
insert into Rentals values('2mc8cg7','6226960318', '2024-03-27 5:00:00', '2024-03-30 9:00:00', 'TS33FV7765','cIHDE44',3000);
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content

passenger_ID	first_PName	last_PName	PAddress	PEmail	P_PhoneNo
9Zes4sA	Lalitha	Mohini	Arsapally,Nizambad	lmohini100@gmail.com	7689012311
cIHDE44	Prabodh	Chandrakanta	Wadepally,Hanamkonda	pcgg11@gmail.com	7897654302
LgT59K2	Sumati	Jain	Bachupally,Hyderabad	sjisepic360@gmail.com	8388412176
N7Q5kkX	Sandhya	Patel	Sathenapalli,Warangal	spdfgg@gmail.com	6789120345
pc635mI	Anjali	Viraj	HiTech,Hyderabad	anjavi111@gmail.com	6565787901
SIjr38V	Abhilash	Ashok	HiTech,Hyderabad	aace22@gmail.com	8612340987
Vorgp7Q	Shobha	Mala	Gachibowli,Hyderabad	smd34@gmail.com	8388456710
W6GAJuX	Namrata	Madhuri	AnandNagar,Nizambad	xnmx@gmail.com	9810298776
W6hsmEv	Nithya	Kshitij	Sathenapalli,Warangal	nk2233@gmail.com	9879832176
zunv6b8	Sanjeet	Gayathri	Bachupally,Hyderabad	iamsang123@gmail.com	8761412305

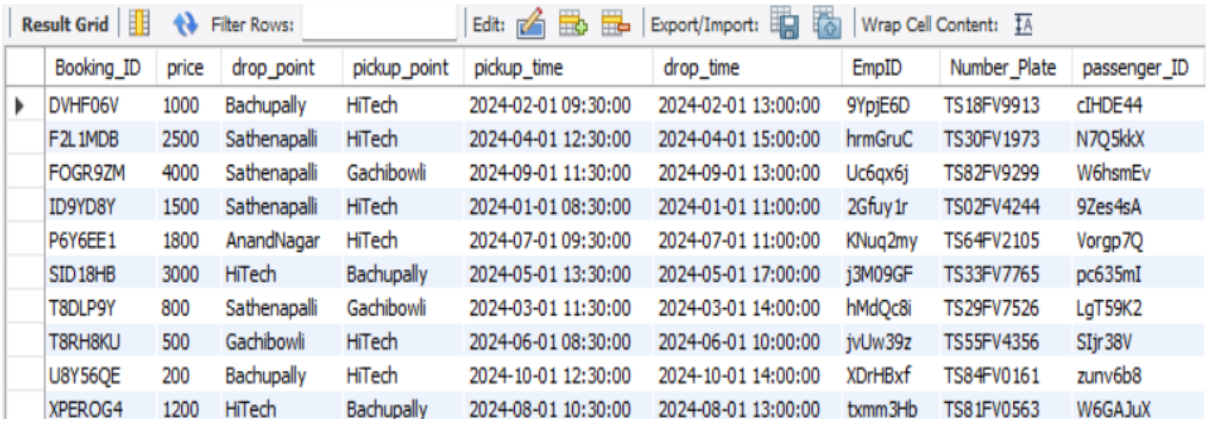
8. Bookings :

This table consists of details of the booking made by a customer and contains a passenger id, a booking id, price, vehicle, locations and times.

```
create table Bookings(
    Booking_ID varchar(20),
    price int,
    drop_point varchar(100),
    pickup_point varchar(100),
    pickup_time TIMESTAMP,
    drop_time TIMESTAMP,
    EmpID varchar(20),
    Number_Plate varchar(20),
    passenger_ID varchar(20),
    primary key (Booking_ID),
    foreign key (EmpID) references Drivers(EmpID),
    foreign key (Number_Plate) references
Vehicle1(Number_Plate),
    foreign key (passenger_ID) references
passenger_details(passenger_ID)
);
```

```
insert into bookings values ('ID9YD8Y', 1500,
'Sathenapalli', 'HiTech', '2024-01-01 08:30:00', '2024-
01-01 11:00:00', '2Gfuy1r', 'TS02FV4244', '9Zes4sA');
insert into bookings values ('DVHF06V', 1000,
'Bachupally', 'HiTech', '2024-02-01 09:30:00', '2024-02-
01 13:00:00', '9YpjE6D', 'TS18FV9913', 'cIHDE44');
insert into bookings values ('T8DLP9Y', 800,
'Sathenapalli', 'Gachibowli', '2024-03-01 11:30:00',
'2024-03-01 14:00:00', 'hMdQc8i', 'TS29FV7526',
'LgT59K2');
insert into bookings values ('F2L1MDB', 2500,
'Sathenapalli', 'HiTech', '2024-04-01 12:30:00', '2024-
04-01 15:00:00', 'hrmGruC', 'TS30FV1973',
'N7Q5kkX');
insert into bookings values ('SID18HB', 3000, 'HiTech',
'Bachupally', '2024-05-01 13:30:00', '2024-05-01
17:00:00', 'j3M09GF', 'TS33FV7765', 'pc635mI');
insert into bookings values ('T8RH8KU', 500,
'Gachibowli', 'HiTech', '2024-06-01 08:30:00', '2024-06-
01 10:00:00', 'jvUw39z', 'TS55FV4356', 'SIjr38V');
insert into bookings values ('P6Y6EE1', 1800,
'AnandNagar', 'HiTech', '2024-07-01 09:30:00', '2024-
07-01 11:00:00', 'KNuq2my', 'TS64FV2105',
'Vorgp7Q');
insert into bookings values ('XPEROG4', 1200,
'HiTech', 'Bachupally', '2024-08-01 10:30:00', '2024-08-
01 13:00:00', 'txmm3Hb', 'TS81FV0563', 'W6GAJuX');
insert into bookings values ('FOGR9ZM', 4000,
'Sathenapalli', 'Gachibowli', '2024-09-01 11:30:00',
'2024-09-01 13:00:00', 'Uc6qx6j', 'TS82FV9299',
'W6hsmEv');
```

insert into bookings values ('U8Y56QE', 200, 'Bachupally', 'HiTech', '2024-10-01 12:30:00', '2024-10-01 14:00:00', 'XDrHBxf', 'TS84FV0161', 'zunv6b8');



Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

Booking_ID	price	drop_point	pickup_point	pickup_time	drop_time	EmpID	Number_Plate	passenger_ID
DVHF06V	1000	Bachupally	HiTech	2024-02-01 09:30:00	2024-02-01 13:00:00	9YpjE6D	TS18FV9913	cIHDE44
F2L1MDB	2500	Sathenapalli	HiTech	2024-04-01 12:30:00	2024-04-01 15:00:00	hrmGruC	TS30FV1973	N7Q5kkX
FOGR9ZM	4000	Sathenapalli	Gachibowli	2024-09-01 11:30:00	2024-09-01 13:00:00	Uc6qx6j	TS82FV9299	W6hsmEv
ID9YD8Y	1500	Sathenapalli	HiTech	2024-01-01 08:30:00	2024-01-01 11:00:00	2Gfuy1r	TS02FV4244	9Zes4sA
P6Y6EE1	1800	AnandNagar	HiTech	2024-07-01 09:30:00	2024-07-01 11:00:00	KNuq2my	TS64FV2105	Vorgp7Q
SID18HB	3000	HiTech	Bachupally	2024-05-01 13:30:00	2024-05-01 17:00:00	j3M09GF	TS33FV7765	pc635mI
T8DLP9Y	800	Sathenapalli	Gachibowli	2024-03-01 11:30:00	2024-03-01 14:00:00	hMdQc8i	TS29FV7526	LgT59K2
T8RH8KU	500	Gachibowli	HiTech	2024-06-01 08:30:00	2024-06-01 10:00:00	jvUw39z	TS55FV4356	SIjr38V
U8Y56QE	200	Bachupally	HiTech	2024-10-01 12:30:00	2024-10-01 14:00:00	XDrHBxf	TS84FV0161	zunv6b8
XPEROG4	1200	HiTech	Bachupally	2024-08-01 10:30:00	2024-08-01 13:00:00	txmm3Hb	TS81FV0563	W6GAJuX

SAMPLE QUERIES

Q1) Display all Drivers
SQL Query - `select * from drivers;`

EmpID	first_Name	last_Name	Driver_PhoneNo	License_Number
2Gfuy1r	Nilofar	Jain	3107754692	9005285646
9YpjE6D	Kavi	Ahmed	6199120362	0389739116
hMdQc8i	Pratibha	Chaudhri	4475010510	0719078086
hrmGruC	Reena	Begam	5044083378	8290275170
j3M09GF	Mitul	Das	2538137786	2666425926
jvUw39z	Madhukar	Sharma	0694613377	2300781328
KNuq2my	Abhay	Gupta	5725059497	1939401419
txmm3Hb	Sushil	Begum	9307445494	9973891437
Uc6qx6j	Niketa	Korrapati	7978238910	2421306863
XDrHBxf	Lavanya	Mhasalkar	7118064570	2789465392

10 rows in set (0.00 sec)

Q2) Display details of all passengers.
SQL Query - `select * from passenger_details;`

passenger_ID	first_PName	last_PName	PAddress	PEmail	P_PhoneNo
9Zes4sA	Lalitha	Mohini	Arsapally,Nizambad	lmohini100@gmail.com	7689012311
cIHDE44	Prabodh	Chandrakanta	Wadepally,Hanamkonda	pcgg11@gmail.com	7897654302
LgT59K2	Sumati	Jain	Bachupally,Hyderabad	sjisepic360@gmail.com	8388412176
N7Q5kkX	Sandhya	Patel	Sathenapalli,Warangal	spdfgg@gmail.com	6789120345
pc635mI	Anjali	Viraj	HiTech,Hyderabad	anjavi111@gmail.com	6565787901
SIjr38V	Abhilash	Ashok	HiTech,Hyderabad	aace22@gmail.com	8612340987
Vorgp7Q	Shobha	Mala	Gachibowli,Hyderabad	smd34@gmail.com	8388456710
W6GAJuX	Namrata	Madhuri	AnandNagar,Nizambad	xnmx@gmail.com	9810298776
W6hsmEv	Nithya	Kshitij	Sathenapalli,Warangal	nk2233@gmail.com	9879832176
zunv6b8	Sanjeet	Gayathri	Bachupally,Hyderabad	iamsang123@gmail.com	8761412305

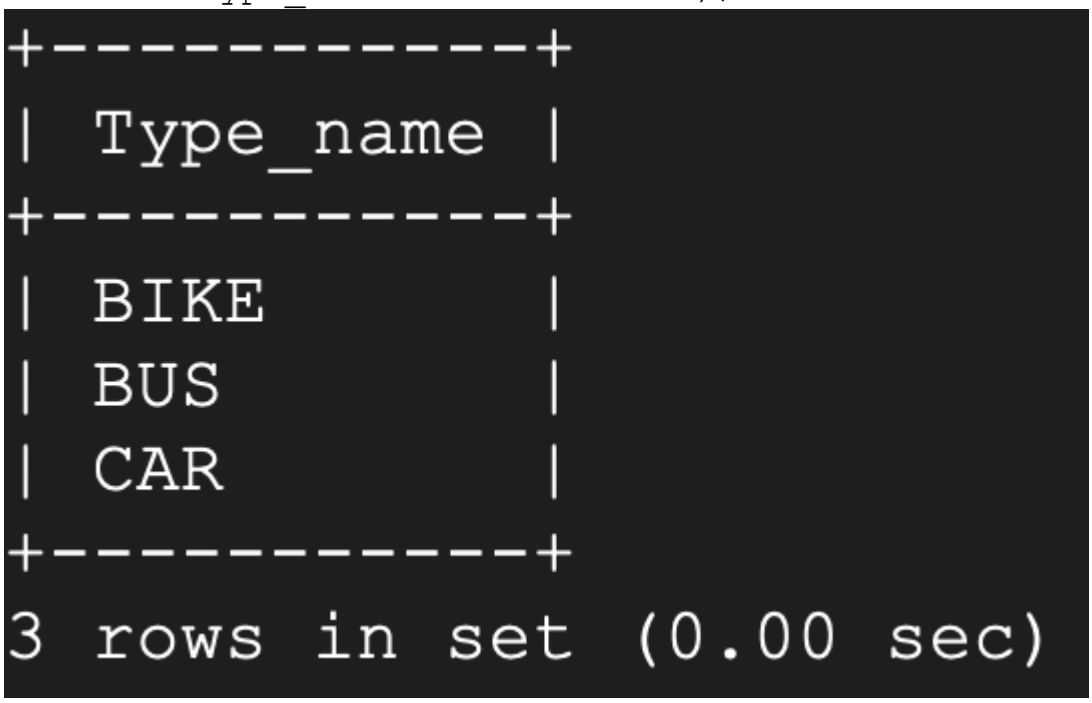
10 rows in set (0.01 sec)

Q3) Display details of vehicles that are being rented.
SQL Query - `select * from vehicle1 where number_plate in (select distinct number_plate from rentals);`

Number_Plate	Type_name	Vehicle_Name
TS18FV9913	CAR	Tata Punch
TS29FV7526	CAR	Toyota Fortuner
TS33FV7765	BIKE	Royal Enfield Hunter 350
TS55FV4356	BUS	Ashok Leyland Oyster 5200
TS64FV2105	BUS	Eicher Pro 3010 L CNG
TS81FV0563	CAR	Mahindra Scorpio
TS84FV0161	BIKE	KTM Duke 390

7 rows in set (0.00 sec)

Q4) Display which type of cars are currently present in the database.
SQL Query - `select * from type where type_name in (select distinct type_name from vehicle1);`



```
+------------+
| Type_name  |
+------------+
| BIKE       |
| BUS        |
| CAR        |
+------------+
3 rows in set (0.00 sec)
```

Q5) Display details of rentals whose price is greater than average price of rentals.
SQL Query - `select * from rentals where rentalprice > (select avg(rentalprice) from rentals);`

Rental_ID	License_Number	Start_datetime	end_datetime	Number_Plate	passenger_ID	rentalPrice
2UHRqWY	3491387072	2024-01-15 12:00:00	2024-01-20 09:00:00	TS81FV0563	SIjr38V	6000
k6EDEtE	0261395656	2024-03-04 09:00:00	2024-03-10 09:00:00	TS84FV0161	SIjr38V	10000
maMmGnS	7410963772	2024-01-30 20:00:00	2024-02-04 09:00:00	TS29FV7526	9Zes4sA	5000

3 rows in set (0.01 sec)