

Introduction to Database Systems Buses booking company (Web based) Team Number: 6

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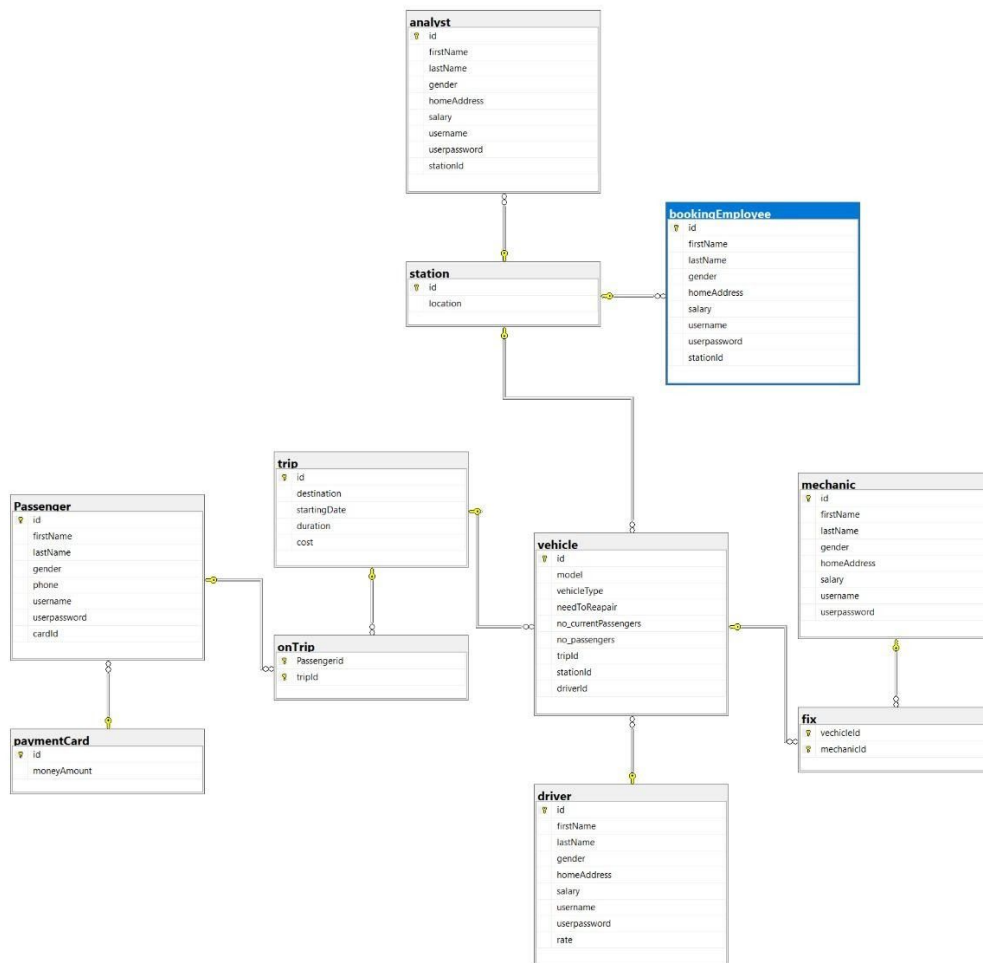
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-Schema Diagram :



Tables:

1.Passenger: Contains info about the passengers

- Id: the unique id of the passenger
- FirstName & lastName: the full name of the passenger
- Gender: sex of the passenger whether a male or female
- Phone: phone number of the passenger
- Username: the username of the passenger with which he can sign in the online website
- Password: the password of the passenger which the online website require to let him in with the username
- Card id: the id of the card which the passenger bought to pay his trips fees

2.PaymentCard: Contains info about the card which a certain passenger has

- Id: the unique id of the card
- MoneyAmount: Money balance of the card

3.OnTrip: Contains the ids of the passengers and the their trips

- PassengerId: the id of the a certain trip
- TripId: the id of the trip which the passenger booked

4.Trip:Contains info about the available trips

- Id: the unique id of the trip
- Destination: the place to which the trip will travel
- StartingDate:the date in which the trip will begin its journey
- Duration:the estimated time of the trip
- Cost: the booking fee of the trip

5.Vehicle: Contains info about the company vehicles

- Id: the unique id of the vehicle
- Model: the model of the vehicle
- VehicleType: the type of the vehicle whether it is a bus,superjet ...etc

- NeedToRepair: flag indicates whether the vehicle has broken down and need repairing
- No_currentPassengers: the number of passengers booked a seat in this vehicle
- No_passengers: the max number of passengers the vehicle can transfer comfortably
- TripId: the current trip that uses the vehicle
- StationId: the id of the station to which the vehicle belongs
- driverId: the id of the driver who is responsible for the vehicle

6.Driver: Contain info about the drivers

- Id: the unique id of the driver
- FirstName & LastName: the full name of the driver
- Gender: the sex of the driver
- HomeAddress: the address of the driver's home
- Salary: current salary per month of the driver
- Username: the username of the driver with which he can sign in the online website
- Password: the password of the driver which the online website require to let him in with the username
- Rate: the average rate of the driver given by passengers

7.Mechanic: Contain info about the mechanics

- Id: the unique id of the mechanic
- FirstName & LastName: the full name of the mechanic
- Gender: the sex of the mechanic
- HomeAddress: the address of the mechanic's home
- Salary: current salary per month of the mechanic
- Username: the username of the mechanic with which he can sign in the online website
- Password: the password of the mechanic which the online website require to let him in with the username

8.Fix: Contains the ids of the mechanics and the vehicle assigned to them for repairing

- MechanicId: the id of the a certain mechanic
- VehicleId: the id of the vehicle which the mechanic is repairing

9.BookingEmployee: Contain info about the booking employees

- Id:the unique id of the booking employee
- FirstName & LastName:the full name of the booking employee
- Gender:the sex of the booking employee
- HomeAddress: the address of the booking employee's home
- Salary: current salary per month of the booking employee
- Username: the username of the booking employee with which he can sign in the online website
- Password: the password of the booking employee which the online website require to let him in with the username
- StationId: the id of the station in which the booking employee works

10.Analyst: Contain info about the analysts

- Id:the unique id of the analyst
- FirstName & LastName:the full name of the analyst
- Gender:the sex of the analyst
- HomeAddress: the address of the analyst's home
- Salary: current salary per month of the analyst
- Username: the username of the analyst with which he can sign in the online website
- Password: the password of the analyst which the online website require to let him in with the username
- StationId: the id of the station in which the analyst works

11.Station: Contain info about the stations

- Id: the unique id of the station
- Location: the location of the station