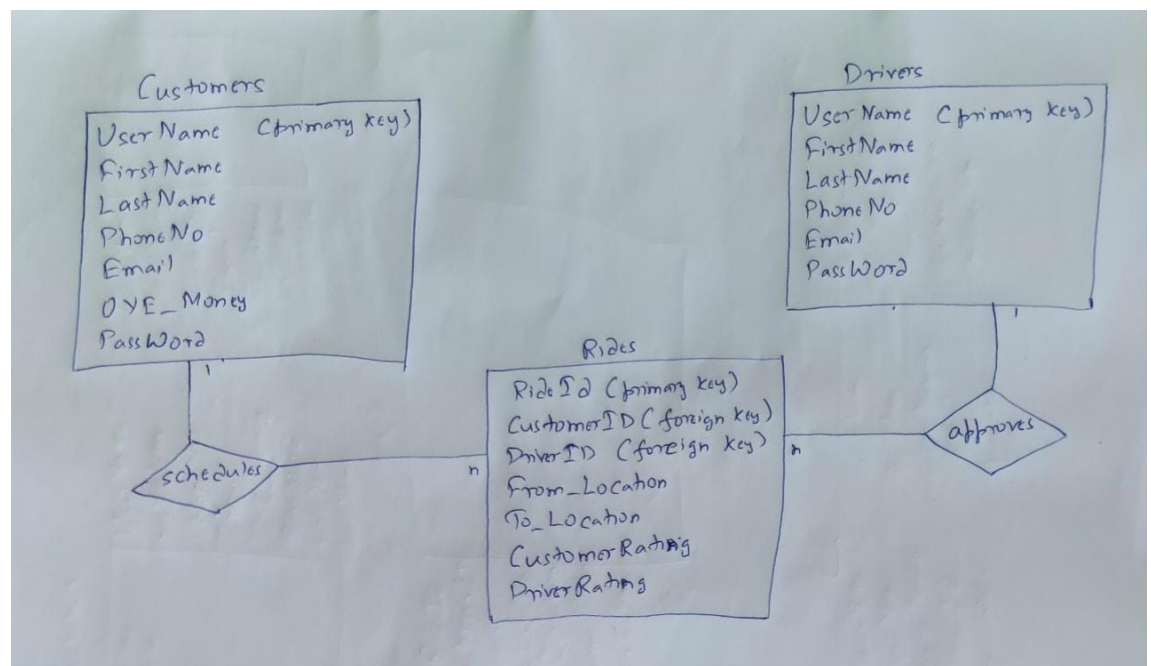# Rating System

Assumptions:

1. Rating will be in range 1-10.
2. Whenever a ride is scheduled, an entry will be added in the Rides table about Ride info.

Approach:

1. MySQL will be used as the database for this UseCase, because in most of the requests, we will be fetching average ratings of Customers and Drivers. In NoSQL databases, latency is higher in calculating the average of a column from the table as it traverses through each document of the table.
2. We will have 3 tables namely Customers, Drivers and Rides. Rides table will contain all the information about each ride performed on OYE! Rickshaw.
3. Whenever a customer or driver sends a request for his/her information, a join operation will be performed and customer/driver details and his average rating will be sent.
4. DB Schema

Database Setup:

1. Open the terminal and enter mysql -u root -p and enter your password
2. Update app.js file line 9 with the same password.
3. In mysql console, perform,
    a. CREATE DATABASE OYE_RICKSHAW;
    b. Use OYE_RICKSHAW;
    c. create table Customers (
        UserName varchar(255) NOT NULL PRIMARY KEY,
        FirstName varchar(255) NOT NULL,
        LastName varchar(255) NOT NULL,
        PhoneNo char(10) NOT NULL,
        Email varchar(255),
        PassWord varchar(255),
        OYE_Money int);
    d. create table Drivers (
        UserName varchar(255) NOT NULL PRIMARY KEY,
        FirstName varchar(255) NOT NULL,
        LastName varchar(255) NOT NULL,
        PhoneNo char(10) NOT NULL,
        PassWord varchar(255),
        Email varchar(255));
    e. create table Rides (RideId varchar(255) PRIMARY KEY,
        CustomerID varchar(255), DriverID varchar(255),
        From_Location varchar(255) NOT NULL, To_Location
        varchar(255) NOT NULL, CustomerRating int, DriverRating int,
        FOREIGN KEY (CustomerID) REFERENCES
        Customers(UserName),FOREIGN KEY (DriverID)
        REFERENCES Drivers(UserName));

4.STEPS TO RUN THE APPLICATION:
    1. Go to /OYE_RICKSHAW folder.

2. Run npm install.
3. Run node app.js.
4. Go to http://localhost:8080/newCustomer to add a new Customer.
5. Go to http://localhost:8080/newDriver to add a new driver.
6. Go to http://localhost:8080/newRide to schedule a new ride.
7. Go to http://localhost:8080/customerAddRating for customer to add a rating for driver.
8. Go to http://localhost:8080/driverAddRating for driver to add a rating for customer.
9. Go to http://localhost:8080/customer/{UserName} to see details of the customer including the average rating.
10. Go to http://localhost:8080/driver/{UserName} to see details of the driver including the average rating.