

Code in MySQL:

```
create table Customer(  
  userID varchar(20) primary key,  
  firstname varchar(100),  
  lastname varchar(100),  
  email varchar(100),  
  phoneNo varchar(20),  
  address varchar(100)  
);
```

```
create table Vehicle(  
  vehicleID varchar(20) primary key,  
  model varchar(50),  
  batteryCapacity decimal(10,2),  
  chargingTime decimal(10,2),  
  amperage decimal(10,2)  
);
```

```
create table stations(  
  stationID varchar(20) primary key,  
  stationName varchar(100),  
  location varchar(100),  
  numOfChargers INT,  
  powerCapacity decimal(10,2),
```

```
status varchar(20)
```

```
);
```

```
create table Wallet(
```

```
walletID varchar(20) primary key,
```

```
walletType varchar(20),
```

```
numOfCustomers INT
```

```
);
```

```
create table Fare(
```

```
fareID varchar(20) primary key,
```

```
amount decimal(10,2)
```

```
);
```

```
create table ChargingMachine(
```

```
chargingMachineID varchar(20) primary key,
```

```
chargeType varchar(50),
```

```
powerOutput decimal(10,2),
```

```
voltage decimal(10,2),
```

```
amperage decimal(10,2),
```

```
connectType varchar(50)
```

```
);
```

```
create table User(
```

```
userID varchar(20),
```

```
userName varchar(100),
```

```
password varchar(50)
```

```
);
```

```
create table Customer_vehicle_mapping(  
  cvID varchar(20) primary key,  
  customerID varchar(20),  
  vehicleID varchar(20),  
  foreign key (customerID) references Customer(customerID),  
  foreign key (vehicleID) references Vehicle(vehicleID)  
);
```

```
create table Station_chargingmachine_mapping(  
  scmID varchar(20) primary key,  
  stationID varchar(20),  
  chargingMachineID varchar(20),  
  foreign key (stationID) references Stations(stationID),  
  foreign key (chargingMachineID) references chargingMachine(chargingMachineID)  
);
```

```
create table Customer_station_mapping(  
  csID varchar(20) primary key,  
  customerID varchar(20),  
  stationID varchar(20),  
  startTime DATETIME,  
  endTime DATETIME,  
  foreign key (customerID) references Customer(customerID),  
  foreign key (stationID) references Stations(stationID)  
);
```

```
create table Wallet_fare_mapping(  
  wfID varchar(20) primary key,  
  walletID varchar(20),
```

```
fareID varchar(20),  
dateOfSubscription DATE,  
foreign key (walletID) references Wallet(walletID),  
foreign key (fareID) references Fare(fareID)  
);
```

```
create table Customer_wallet_mapping(  
lcwD varchar(20) primary key,  
customerID varchar(20),  
walletID varchar(20),  
balance decimal(10,2),  
lastTransaction DATE,  
foreign key (walletID) references Wallet(walletID),  
foreign key (customerID) references Customer(customerID)  
);
```

```
create table Customer_bill(  
cbID varchar(20) primary key,  
cvID varchar(20),  
csID varchar(20),  
billAmount decimal(10,2),  
paymentStatus boolean,  
foreign key (cvID) references Customer_vehicle_mapping(cvID),  
foreign key (csID) references Customer_station_mapping(csID)  
);
```

```
create table User_station(  
usID varchar(20) primary key,  
userID varchar(20),
```

```
stationID varchar(20),  
foreign key (userID) references User(userID),  
foreign key (stationID) references Stations(stationID)  
);
```