

Name: Customer

Description: A verified user of the service.

Attributes:

- custID: int, customer ID number
- FirstName: string, customer first name
- LastName: string, customer last name
- Password: string, hashed and salted password
- Email: string, the user's email address
- PhoneNumber: int, user's phone number
- TotalRentals: int, the amount of times a customer has rented a car [derived from Rental Records]

Primary Key: custID

Name: Employee

Description: an employee of the rental store

Attributes:

- empID: int, Identification number of the employee
- FirstName: string, employee first name
- LastName: string, employee last name
- Password: string, hashed and salted employee password
- Email: string, the employee's email
- PhoneNumber: int, the employee's phone number
- Position: string, the position of the employee
- FK_Employee: int, the manager's ID number

Primary Key: empID

Foreign Key: FK_Employee, references Employee(empID)

Name: Vehicle

Description: a vehicle in the store's inventory

Attributes:

- VIM: int, the VIM number of the vehicle
- Status: string, current rental status of the vehicle
- Type: string, type of vehicle
- Make: string, manufacturer of the vehicle
- Model: string, model of the vehicle
- Year: string, manufacturing date of the vehicle
- LicensePlate: string, the license plate of the vehicle
- MPG: double, the miles per gallon of the vehicle
- Miles: int, the current value of the odometer of the vehicle
- Condition: string, the condition of the vehicle
- FK_Mechanic: int, the employee number of the mechanic working on the vehicle

Primary Key: VIM

Foreign Key: FK_Mechanic, references Employee(empID)

Name: Rents

Description: current rentals

Attributes:

- FK_Cus: int, the customer renting the vehicle
- FK_Vehicle: int, the vehicle that the customer is renting

Primary Key: FK_Cus, FK_Vehicle

Foreign Key: FK_Cus, references Customer(custID)

Foreign Key: FK_Vehicle, references Vehicle(VIM)

Name: Rental Record

Description: a record of a rental

Attributes:

- Start_Date: date, the start date of the rental
- End_Date: date, the return date of the rental
- RecordID: int, an identifying number for that specific rental
- Miles: int, amount of miles driven during the rental
- InitialCondition: string, initial condition of the vehicle
- ReturnCondition: string, condition of the vehicle at the return date
- FK_Cus: int, ID number of the customer
- FK_Vehicle: int, ID number of the vehicle

Primary Key: RecordID, FK_Cus, FK_Vehicle

Foreign Key: FK_Cus, references Customer(custID)

Foreign Key: FK_Vehicle, references Vehicle(VIM)