--СОЗДАЁМ БАЗУ ДАННЫХ

CREATE DATABASE CarRentalSalon

GO

--ПЕРЕХОДИМ В КАТАЛОГ БАЗЫ ДАННЫХ

USE CarRentalSalon

GO

--СОЗДАЮ ТАБЛИЦУ-СПРАВОЧНИК КЛАСС\_МАШИН

CREATE TABLE [TypeCarDamage]

(

TypeCarDamageId INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

TypeCarDamageName NVARCHAR(40) NOT NULL,

TypeCarDamagePrice INT NOT NULL,

)

--СОЗДАЮ ТАБЛИЦУ-СПРАВОЧНИК КЛАСС\_МАШИН

CREATE TABLE [StatusPaymentRentalCar]

(

StatusPaymentRentalCarId INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

StatusPaymentRentalCarName NVARCHAR(40) NOT NULL,

)

--

CREATE TABLE [StatusAdditionalPaymentRentalCar]

(

StatusAdditionalPaymentRentalCarId INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

StatusAdditionalPaymentRentalCarName NVARCHAR(40) NOT NULL,

)

--

CREATE TABLE [StatusRentalCar]

(

StatusRentalCarId INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

StatusRentalCarName NVARCHAR(40) NOT NULL,

)

--

CREATE TABLE [StatusCatalogCar]

(

StatusCatalogCarId INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

StatusCatalogCarName NVARCHAR(40) NOT NULL,

)

--СОЗДАЮ ТАБЛИЦУ-СПРАВОЧНИК КЛАСС\_МАШИН

CREATE TABLE [ClassCar]

(

ClassCarId INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

ClassCarName NVARCHAR(15) NOT NULL,

)

--СОЗДАЮ ТАБЛИЦУ-СПРАВОЧНИК СТРАНЫ

CREATE TABLE [CountryCar]

(

CountryCarId INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

CountryCarName NVARCHAR(50) NOT NULL

)

--СОЗДАЮ ТАБЛИЦУ-СПРАВОЧНИК НАЗВАНИЕ\_ШТРАФА

CREATE TABLE [NameFine]

(

NameFineId INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

NameFineName NVARCHAR(255) NOT NULL

)

--СОЗДАЮ ТАБЛИЦУ КАТАЛОГ

CREATE TABLE [CatalogCar]

(

CatalogCarId INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

CatalogCarBrand NVARCHAR(30) NOT NULL,

CatalogCarModel NVARCHAR(30) NOT NULL,

CountryCarId INT NOT NULL,

ClassCarId INT NULL,

StatusCatalogCarId INT NOT NULL,

CatalogCarMileage INT NOT NULL,

CatalogCarPricePerDay INT NOT NULL,

CatalogCarImageName NVARCHAR(61) NULL,

FOREIGN KEY (ClassCarId) REFERENCES ClassCar(ClassCarId),

FOREIGN KEY (CountryCarId) REFERENCES CountryCar(CountryCarId),

FOREIGN KEY (StatusCatalogCarId) REFERENCES StatusCatalogCar(StatusCatalogCarId)

)

--СОЗДАЮ ТАБЛИЦУ КЛИЕНТ

CREATE TABLE Clients

(

ClientId INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

ClientFullName NVARCHAR(50) NOT NULL,

ClientBirthday DATE NOT NULL,

ClientHaveDriverLicense BIT NULL,

ClientDriverLicenseNumber DEC(10,0) NULL,

ClientPassportNumber DEC(10,0) NOT NULL

CONSTRAINT UNIQ\_ClientPassportNumber UNIQUE(ClientPassportNumber)

);

GO

CREATE UNIQUE NONCLUSTERED INDEX UNIQ\_ClientDriverLicenseNumber

ON Clients(ClientDriverLicenseNumber)

WHERE ClientDriverLicenseNumber IS NOT NULL;

GO

--СОЗДАЮ ТАБЛИЦУ ВОДИТЕЛЬ

CREATE TABLE Drivers

(

DriverId INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

DriverFullName NVARCHAR(50) NOT NULL,

DriverDriverLicenseNumber DEC(10,0) NOT NULL,

DriverPricePerDay INT NOT NULL,

DriverWorkBegin TIME NOT NULL,

DriverWorkEnd TIME NOT NULL

CONSTRAINT UNIQ\_DriverDriverLicenseNumber UNIQUE(DriverDriverLicenseNumber)

)

--СОЗДАЮ ТАБЛИЦУ ДОПОЛНИТЕЛЬНЫЕ УСЛУГИ

CREATE TABLE AdditionalServices

(

AdditionalServiceId INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

AdditionalServiceName NVARCHAR(30) NOT NULL,

AdditionalServicePrice INT NOT NULL

)

--СОЗДАЮ ТАБЛИЦУ ДОПОЛНИТЕЛЬНЫЕ УСЛУГИ НА ЗАКАЗ

CREATE TABLE AdditionalServicesOnOrder

(

AdditionalServicesOnOrderId INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

DriverId INT NOT NULL,

AdditionalServicesOnOrderFullPriceOnOrder INT NOT NULL,

FOREIGN KEY (DriverId) REFERENCES Drivers(DriverId)

)

--СОЗДАЮ ТАБЛИЦУ СПИСОК ДОПОЛНИТЕЛЬНЫХ УСЛУГ НА ЗАКАЗ

CREATE TABLE OrderHasAdditionalServices

(

AdditionalServicesOnOrderId INT NOT NULL,

AdditionalServiceId INT NOT NULL,

FOREIGN KEY (AdditionalServicesOnOrderId) REFERENCES AdditionalServicesOnOrder(AdditionalServicesOnOrderId),

FOREIGN KEY (AdditionalServiceId) REFERENCES AdditionalServices(AdditionalServiceId)

)

--СОЗДАЮ ТАБЛИЦУ ПРОКАТ

CREATE TABLE RentalCar

(

RentalCarId INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

CatalogCarId INT NOT NULL,

ClientId INT NOT NULL,

StatusPaymentRentalCarId INT NOT NULL,

AdditionalServicesOnOrderId INT NOT NULL,

StatusAdditionalPaymentRentalCarId INT NOT NULL,

StatusRentalCarId INT NOT NULL,

RentalCarRentalDateCar DATE NOT NULL,

RentalCarReturnDate DATE NOT NULL,

RentalCarFullPriceNow INT NOT NULL,

RentalCarFullPricePay INT NOT NULL,

FOREIGN KEY (CatalogCarId) REFERENCES [CatalogCar](CatalogCarId) ,

FOREIGN KEY (ClientId) REFERENCES Clients(ClientId),

FOREIGN KEY (AdditionalServicesOnOrderId) REFERENCES AdditionalServicesOnOrder(AdditionalServicesOnOrderId),

FOREIGN KEY (StatusAdditionalPaymentRentalCarId) REFERENCES StatusAdditionalPaymentRentalCar(StatusAdditionalPaymentRentalCarId),

FOREIGN KEY (StatusPaymentRentalCarId) REFERENCES StatusPaymentRentalCar(StatusPaymentRentalCarId),

FOREIGN KEY (StatusRentalCarId) REFERENCES StatusRentalCar(StatusRentalCarId)

)

--СОЗДАЮ ТАБЛИЦУ ШТРАФЫ

CREATE TABLE ReturnCarHaveDamage

(

RentalCarId INT NOT NULL REFERENCES RentalCar(RentalCarId),

TypeCarDamageId INT NOT NULL REFERENCES TypeCarDamage(TypeCarDamageId),

ReturnCarHaveDamageAmount INT NOT NULL

)

--СОЗДАЮ ТАБЛИЦУ ШТРАФЫ

CREATE TABLE Fines

(

FineId INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

RentalCarId INT NOT NULL,

NameFineId INT NOT NULL,

FineReceiptDate DATE NOT NULL,

FinePrice INT NOT NULL,

FOREIGN KEY (RentalCarId) REFERENCES RentalCar(RentalCarId),

FOREIGN KEY (NameFineId) REFERENCES NameFine(NameFineId)

)

--СОЗДАЮ ТАБЛИЦУ РОЛИ

CREATE TABLE Roles

(

RoleId INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

RoleName NVARCHAR(50) NOT NULL

)

--СОЗДАЮ ТАБЛИЦУ СОТРУДНИКОВ

CREATE TABLE Users

(

[UserId] [int] PRIMARY KEY IDENTITY(1,1) NOT NULL,

[UserFullName] [nvarchar](50) NOT NULL,

[UserBirthday] [date] NOT NULL,

[UserLogin] [nvarchar](50) NOT NULL,

[UserPassword] [nvarchar](256) NOT NULL,

[UserPhone] [nvarchar](12) NOT NULL,

[RoleId] [int] NOT NULL,

FOREIGN KEY ([RoleId]) REFERENCES [Roles]([RoleId])

)