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CREATE DATABASE The_Ride_You_Rent;
use The_Ride_You_Rent;

-- Create the CarMake table
CREATE TABLE CarMake (
    Make VARCHAR(20) PRIMARY KEY,
    Description VARCHAR(100)
);

-- Insert data into CarMake table
INSERT INTO CarMake (Make, Description) VALUES
    ('Hyundai', 'Hyundai Description'),
    ('BMW', 'BMW Description'),
    ('Mercedes Benz', 'Mercedes Benz Description'),
    ('Toyota', 'Toyota Description'),
    ('Ford', 'Ford Description');

-- Create the CarBodyType table
CREATE TABLE CarBodyType (
    BodyType VARCHAR(20) PRIMARY KEY,
    Description VARCHAR(100)
);

-- Insert data into CarBodyType table
INSERT INTO CarBodyType (BodyType, Description) VALUES
    ('Hatchback', 'Hatchback Description'),
    ('Sedan', 'Sedan Description'),
    ('Coupe', 'Coupe Description'),
    ('SUV', 'SUV Description');

-- Create the Car table
CREATE TABLE Car (
    CarNo VARCHAR(10) PRIMARY KEY,
    CarMake VARCHAR(20),
    BodyType VARCHAR(20),
    Model VARCHAR(50),
    KilometersTravelled INT,
    ServiceKilometersAvailable INT,
    FOREIGN KEY (CarMake) REFERENCES CarMake (Make),
    FOREIGN KEY (BodyType) REFERENCES CarBodyType (BodyType)
);

-- Insert data into Car table
INSERT INTO Car (CarNo, CarMake, BodyType, Model, KilometersTravelled,
ServiceKilometersAvailable) VALUES
    ('HYU001', 'Hyundai', 'Hatchback', 'Grand i10 1.0 Motion', 1500, 15000),
    ('HYU002', 'Hyundai', 'Hatchback', 'i20 1.2 Fluid', 3000, 15000),
    ('BMW001', 'BMW', 'Sedan', '320d 1.2', 20000, 50000),
    ('BMW002', 'BMW', 'Sedan', '240d 1.4', 9500, 15000),
    ('TOY001', 'Toyota', 'Sedan', 'Corolla 1.0', 15000, 50000),
    ('TOY002', 'Toyota', 'SUV', 'Avanza 1.0', 98000, 15000),
    ('TOY003', 'Toyota', 'Sedan', 'Corolla Quest 1.0', 15000, 50000),
    ('MER001', 'Mercedes Benz', 'Sedan', 'c180', 5200, 15000),
    ('MER002', 'Mercedes Benz', 'Sedan', 'A200 Sedan', 4080, 15000),
    ('FOR001', 'Ford', 'Sedan', 'Fiesta 1.0', 7600, 15000);

-- Create the Inspector table
CREATE TABLE Inspector (
    InspectorNo VARCHAR(10) PRIMARY KEY,
    Name VARCHAR(50),
    Email VARCHAR(100),

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Mobile VARCHAR(15)
);

-- Insert data into Inspector table
INSERT INTO Inspector (InspectorNo, Name, Email, Mobile) VALUES
  ('I101', 'Bud Barnes', 'bud@therideyourent.com', '0821585359'),
  ('I102', 'Tracy Reeves', 'tracy@therideyourent.com', '0822889988'),
  ('I103', 'Sandra Goodwin', 'sandra@therideyourent.com', '0836802514'),
  ('I104', 'Shannon Burke', 'shannon@therideyourent.com', '0823445566');

-- Create the Driver table
CREATE TABLE Driver (
  Name VARCHAR(50) PRIMARY KEY,
  Address VARCHAR(100),
  Email VARCHAR(100),
  Mobile VARCHAR(15)
);

-- Insert data into Driver table
INSERT INTO Driver (Name, Address, Email, Mobile) VALUES
  ('Gabrielle Clarke', '917 Heuvel St, Botshabelo, Free State 9781',
'gorix10987@macauvpn.com', '0837113269'),
  ('Geoffrey Franklin', '1114 Dorp St, Paarl, Western Cape 7655',
'noceti8743@drlatvia.com', '0847728052'),
  ('Fawn Cooke', '2158 Prospect St, Garsfontein, Gauteng 0042',
'yegifav388@enamelme.com', '0821966584'),
  ('Darlene Peters', '2529 St. John Street, Somerset West, Western Cape 7110',
'mayeka4267@macauvpn.com', '0841221244'),
  ('Vita Soto', '1474 Wolmarans St, Sundra, Mpumalanga 2200',
'wegog55107@drlatvia.com', '0824567924'),
  ('Opal Rehbein', '697 Thutlwa St, Letaba, Limpopo 0870',
'yyow34505@enpaypal.com', '0826864938'),
  ('Vernon Hodgson', '1935 Thutlwa St, Letsitele, Limpopo 0885',
'gifeh11935@enamelme.com', '0855991446'),
  ('Crispin Wheatly', '330 Sandown Rd, Cape Town, Western Cape 8018',
'likon78255@macauvpn.com', '0838347945'),
  ('Melanie Cunningham', '616 Loop St, Atlantis, Western Cape 7350',
'sehapeb835@macauvpn.com', '0827329001'),
  ('Kevin Peay', '814 Daffodil Dr, Elliotdale, Eastern Cape 5118',
'xajic53991@enpaypal.com', '0832077149');

-- Create the Rental table
CREATE TABLE Rental (
  CarNo VARCHAR(10),
  InspectorNo VARCHAR(10),
  DriverName VARCHAR(50),
  RentalFee DECIMAL(10, 2),
  StartDate DATE,
  EndDate DATE,
  FOREIGN KEY (CarNo) REFERENCES Car (CarNo),
  FOREIGN KEY (InspectorNo) REFERENCES Inspector (InspectorNo),
  FOREIGN KEY (DriverName) REFERENCES Driver (Name)
);

-- Insert data into Rental table
INSERT INTO Rental (CarNo, InspectorNo, DriverName, RentalFee, StartDate, EndDate)
VALUES
  ('HYU001', 'I101', 'Gabrielle Clarke', 5000, '2021-08-30', '2021-08-31'),
  ('HYU002', 'I101', 'Gabrielle Clarke', 5000, '2021-09-01', '2021-09-10'),
  ('FOR001', 'I101', 'Geoffrey Franklin', 6500, '2021-09-01', '2021-09-10'),
  ('BMW002', 'I102', 'Vita Soto', 7000, '2021-09-20', '2021-09-25'),
  ('TOY002', 'I102', 'Darlene Peters', 5000, '2021-10-03', '2021-10-31'),

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('MER001', 'I103', 'Darlene Peters', 8000, '2021-10-05', '2021-10-15'),
('HYU002', 'I104', 'Vernon Hodgson', 5000, '2021-12-01', '2022-02-10'),
('TOY003', 'I104', 'Melanie Cunningham', 5000, '2021-08-10', '2021-08-31');

-- Create the Return table
CREATE TABLE Car_Return(
    CarNo VARCHAR(10),
    InspectorNo VARCHAR(10),
    DriverName VARCHAR(50),
    ReturnDate DATE,
    ElapsedDays INT,
    Fine DECIMAL(10, 2),
    FOREIGN KEY (CarNo) REFERENCES Car (CarNo),
    FOREIGN KEY (InspectorNo) REFERENCES Inspector (InspectorNo),
    FOREIGN KEY (DriverName) REFERENCES Driver (Name)
);

-- Insert data into Return table
INSERT INTO Car_Return (CarNo, InspectorNo, DriverName, ReturnDate, ElapsedDays, Fine)
VALUES
    ('HYU001', 'I101', 'Gabrielle Clarke', '2021-08-31', 0, 0),
    ('HYU002', 'I101', 'Gabrielle Clarke', '2021-09-10', 0, 0),
    ('FOR001', 'I101', 'Geoffrey Franklin', '2021-09-10', 0, 0),
    ('BMW002', 'I102', 'Vita Soto', '2021-09-30', 5, 2500),
    ('TOY002', 'I102', 'Darlene Peters', '2021-10-31', 2, 1000),
    ('MER001', 'I103', 'Darlene Peters', '2021-10-15', 1, 500),
    ('HYU002', 'I104', 'Vernon Hodgson', '2022-02-10', 0, 0);

--5
SELECT * FROM Rental
WHERE (Rental.StartDate = '2021-08-01') AND (Rental.EndDate = '2021-10-30');

--6
SELECT * FROM Rental
WHERE (Rental.DriverName = 'Bud Barnes');

SELECT * FROM Rental
WHERE InspectorNo = 'I101';

--7

SELECT CR.* FROM Car_Return CR
JOIN Car C ON CR.CarNo = C.CarNo
JOIN CarMake CM ON C.CarMake = CM.Make
WHERE CM.Make = 'Toyota';

SELECT * FROM Car
JOIN Car_Return CR ON CR.CarNo = Car.CarNo
WHERE (CarMake = 'Toyota');

--Write a query that counts the number of rentals that were placed for the car make
Hyundai0

SELECT COUNT (*) AS RentalNum
FROM RENTAL
INNER JOIN Car ON Rental.CarNo = Car.CarNo
Where Car.CarMake='Hyundai';

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--9
UPDATE Car
SET
Car.Model = 'Focus'
Where (Car.CarNo LIKE 'FOR001');
--10
SELECT Rental.CarNo, Rental.DriverName, Rental.RentalFee, Rental.StartDate,
Rental.EndDate, Car.ServiceKilometersAvailable - Car.KilometersTravelled AS
Availability
FROM Rental
INNER JOIN Car ON Rental.CarNo = Car.CarNo
WHERE Rental.EndDate < GETDATE()
```