CREATE TABLE Appointments (

AppointmentID INTEGER PRIMARY KEY,

CarID INTEGER,

ShopID INTEGER,

AppointmentDate DATE NOT NULL,

ServiceRequired VARCHAR(255),

FOREIGN KEY (CarID) REFERENCES Cars(CarID),

FOREIGN KEY (ShopID) REFERENCES Shops(ShopID)

)

CREATE TABLE CarOwners (

OwnerID INTEGER PRIMARY KEY,

Name VARCHAR(255) NOT NULL,

ContactInfo VARCHAR(255)

)

CREATE TABLE Car\_Maintenance (

PackageID INTEGER,

CarID INTEGER,

FOREIGN KEY (PackageID) REFERENCES MaintenancePackages(PackageID),

FOREIGN KEY (CarID) REFERENCES Cars(CarID),

PRIMARY KEY (PackageID, CarID)

)

CREATE TABLE Cars (

CarID INTEGER PRIMARY KEY,

OwnerID INTEGER,

Model VARCHAR(255) NOT NULL,

Year INTEGER,

LastMaintenanceDate DATE,

FOREIGN KEY (OwnerID) REFERENCES CarOwners(OwnerID)

)

CREATE TABLE MaintenancePackages (

PackageID INTEGER PRIMARY KEY,

Name VARCHAR(255) NOT NULL,

Details TEXT

)

CREATE TABLE Shops (

ShopID INTEGER PRIMARY KEY,

Name VARCHAR(255) NOT NULL,

Address VARCHAR(255) NOT NULL

)

SELECT Cars.model, CarOwners.name AS owner\_name, MaintenancePackages.name AS package\_name

FROM Cars

JOIN CarOwners ON Cars.ownerID = CarOwners.ownerID

JOIN Car\_Maintenance ON Cars.carID = Car\_Maintenance.carID

JOIN MaintenancePackages ON Car\_Maintenance.packageID = MaintenancePackages.packageID;

SELECT model, year

FROM Cars

WHERE carID = (SELECT carID FROM Appointments ORDER BY appointmentDate DESC LIMIT 1);

SELECT model, COUNT(\*) as count

FROM Cars

GROUP BY model

HAVING count > 5;

SELECT model, year, lastMaintenanceDate

FROM Cars

WHERE (year <= 2019) AND (lastMaintenanceDate > '2022-01-01');

SELECT model, year,

CASE

WHEN year > 2020 THEN 'New Car'

ELSE 'Old Car'

END AS car\_type

FROM Cars;