

The Car Dealership Database

Workbook 7's Workshop

Project Description

Create a GitHub repository for this workshop and clone it to the C:\pluralsight folder. The repo could be named CarDealershipDatabase.

Project Requirements

You will create a single database script that will create a car dealership database and all of the tables required for your car dealership. The script should also pre-populate the database with initial data.

NOTE: Your database setup script should be completely self contained, and we should be able to re-run it multiple times to create or re-create the database. Think of how the Northwind database script works.

Use the Northwind database script as a reference as you research how to drop and create the different parts of your database.

HINT: DROP DATABASE database-name;

Step 1

Create the database.

```
CREATE DATABASE database-name;
```

Step 2

Create your tables. You will need the following tables:

Table 1: dealerships

Columns:

dealership_id	int, auto-increment, primary key
name	varchar(50)
address	varchar(50)
phone	varchar(12)

Table 2: vehicles

Columns:

- you decide
- VIN should be the primary key
- VIN should NOT be auto-increment
- include a column called SOLD

Table 3: inventory (track which dealership has the vehicle)

Columns:

- dealership_id
- VIN

Table 4: sales_contracts

Columns:

- you decide
- id should be auto-incremented
- use a foreign key (VIN) to link to the vehicle

Table 5: (OPTIONAL) lease_contracts

Columns:

- you decide
- id should be auto-incremented
- use a foreign key (VIN) to link to the vehicle

Step 3

Populate each of your tables with sample data.

Step 4

Create test `.sql` scripts with the following queries to verify that your database has been created and has been populated correctly. Each of these queries should be in their own `.sql` file and SHOULD NOT be included in the main database script.

1. Get all dealerships
2. Find all vehicles for a specific dealership
3. Find a car by VIN
4. Find the dealership where a certain car is located, by VIN
5. Find all Dealerships that have a certain car type (i.e. Red Ford Mustang)
6. Get all sales information for a specific dealer for a specific date range

What Makes a Good Workshop Project?

- **You should:**
 - Write clean SQL code that is well formatted and easy to understand
 - Use industry standards for capitalization
- **Make sure that:**
 - Your code is free of errors and that your queries execute
 - Your database script can be run multiple times without adverse side effects
- **Push your code to a public GitHub Repo**
 - ALSO make sure to include one interesting query or discovery that you made during this project.