The Car Dealership Database

Workbook 7's Workshop

Project Description

Create a GitHub repository for this workshop and clone it to the `C:/pluralsight/workshops` 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.