CECS 323 LAB BUILD LAB DATABASE

OBJECTIVE: Build the database that we will use for our lab work, and get some experience doing queries in SQL.

INTRODUCTION: Our sample database supports a small shop that sells models of various objects: cars, aircraft, ships, … The UML diagram for the database design is here. Do not worry that you do not recognize some of the UML class diagram constructs. We will get to that soon. The relation scheme diagram for this database is here.

Get into the habit of making a copy of anything that you enter into an execution window in NetBeans into a .txt file using NotePad or some other text editor. Sophisticated editors will put in special characters that NetBeans will not be able to parse, so stick to the basics. When you take the lab midterms, you can use any SQL that you have written. So keep your lab work for later.

PROCEDURE:

1. Open NetBeans and create a new database called **CECS323Lab**.
2. The SQL statements to create the tables and all of the associations between those tables is located here.
    a. Go that URL address. Your browser will open a new window with all of the DDL.
    b. Select the entire contents of the document and put that into your clipboard.
3. Right click the CECS323Lab database that you created in NetBeans and select the "Execute Command …" menu option. This will open up a new window to the right.
4. Paste the DDL statements that you got from the above link into the execution window.
5. Run the statements up to, but not including, the drop statements. That will build your tables and populate them with insert statements.
6. Write a SQL statement to perform each of the following queries:
    a. List all rows from Customer
    b. List the productName and the ProductLine that the product belongs to for all products.
    c. List all ProductNames where the ProductLine is 'Motorcycles'.
    d. List the Vendor for the product whose productName is '1968 Ford Mustang'.
    e. List the Order Number, Order Status where the Order Status is 'Resolved' or 'Cancelled'
    f. List the Order Number and Shipped Date for Orders that the Order Status is 'Shipped' and the Shipped Date is greater than Required Date.
    g. List the ProductName and Quantity in Stock where the BuyPrice is greater than the MSRP.

WHAT TO TURN IN:

- For each of the SQL statements listed above, provide:
    - The original prompt (like "List all rows from Customer")
    - Your SQL statement
    - Sample output from executing that statement
- Your team's collaboration document. You can find the template for the collaboration document on BeachBoard | Content | Student Helps | Lab Collaboration Document.