Worksheet 2

Step one: Loading the Database

On BrightSpace, you will find the "classicmodels" database. Load this into MySQL using the instructions below in the "Loading and Saving Databases" section.

This creates a database named *classicmodels*.

This database stores information about a company that sells models of cars, airplanes, trains, etc. It holds information about things like the company's employees, customers, products and orders that they have received.

A "product line" is a category of product (for example one product line is "Ships": the company sells many different products that are ship models).

Loading and Saving Databases

To load a database file, open a command prompt, and change to the directory that the file is stored in. Then run the following command (replacing *username* and *filename* with the appropriate names):

mysql -u *username* < *filename*.db

To save a database from MySQL to a file, open a command prompt and type the following (replacing *username*, *databasename* and *filename* with the appropriate names):

mysqldump -u *username* -B *databasename* > *filename*.db

Step two: Exploring the Database

Before running any SQL queries, you should look at the tables that are available in the database. The following commands will be useful:

- `SHOW TABLES;`
- `DESCRIBE table_name;`

Step three: Using the data

Now write SQL queries to do the following:

1. List all information about the company's customers.
2. List all of the customer names from Frankfurt.
3. Find the name, city and phone number of all customers from Germany.
4. List all of the products in each product line.
5. List all the cities that the company has offices in.
6. List all of the job titles that are available in the company (each job title should only be listed once).
7. Find the name of the company president and the city that her office is in.
8. Show the order number and any comments for all orders that have comments.
9. For every order, show the order number and the name of the customer that placed the order.
10. List the names of all customers who have never placed an order.
11. Find all the customer names that end with "Co" or "Co.".
12. List the names of all employees who work for Gerard Bondur (**Hint:** the "reportsTo" attribute in the "employees" table contains the employeeNumber of the person each employee works for).
13. Insert two new product lines, with the following details:

Product Line	Text Description
Computers	We now sell models of classic computers too!
Helicopters	All kinds of choppers.

14. The employee named George Vanauf has moved to the Paris office. Make a change to the database to record this information.