CSU101
Summer 09
Lab Assignment A3

For each problem you are given a question in English. Your job is to figure out how to ask the database the question using a query or multiple queries. The answer that a database gives will depend upon the data within the database. You should write the query so that it gives the correct answer regardless of what data is in the database. Each question is worth 10 pts.

Name each query starting with its question number (e.g., 01, 02, etc.). Make it clear which query is the final answer, and which is a sub-query, if appropriate. You can do this by naming the final answer 01, and the sub-queries 01a, 01b, etc.

The answers for "who" questions should include first name, last name and contactID and should not include duplicates. If asked for a product, include its name and productID. A 'line item' is a single item purchased in an order; in other words, it does not take into account quantity (see questions 3 and 5).

1. Write a query to find, for each state from which orders were placed, the total value of the orders from that state.

2. How many orders are there which include a line item (order detail) for less than $1000?

3. How many contacts placed an order which included a line item for less than $1000?

4. How many customers placed at least one order for more than $1000?

5. How many customers placed at least two orders for more than $1000?

6. How many states have contacts that placed an order for more than $1000?

7. How many customers placed more than 3 orders?

8. How many customers placed at least one order with more than 4 line items?

9. Who bought the most "Pentium II/350MHz"s (by quantity)?

10. Who placed the most orders?