

**CS1100**  
**Fall 2009**  
**Lab Assignment A1**

To complete this assignment you must submit an electronic copy to Blackboard by the due date. Download the file ComputerStore.accdb from the course web site and save a copy of it. This database represents customer and order information for a hypothetical computer store. Our problem is to learn to construct queries on this database. For each of the problems assume that the data in the database might change. Your query should give the correct results for whatever data happens to be in the database. If the problem says that your query result should not have duplicate entries for a particular field, it is not sufficient that your there are no duplicate entries for the particular data in the database. Your query must give unique values for that field whatever data happens to be in the database.

1. Write a query to find the first name, last name and zip code and contact ID of all contacts. Your query result should not have duplicate entries for the same contact. Save this query as **ContactZips**.
2. Write a query to find the first name, last name and zip code of all contacts that placed an order and the order number for each order. If a customer placed more than one order, that customer should appear in the result more than once. Save this query as **OrderZips**.
3. Write a query to find the first name, last name and zip code of all contacts that placed an order. Your query result should not have duplicate entries for the same contact. Save this query as **CustomerZips**.
4. Write a query to find the dates on which orders were placed. Your query result should not have duplicate entries for a date. Save this query as **OrderDates**.
5. Write a query to find all the products that were ordered. List the product ID and product name. Your query result should not have duplicate entries for that product. Save this query as **ProductsOrdered**.
6. Write a query to find all orders that contain a line item (order detail) with a quantity of at least 2 for a particular item. List the order ID. Your query result should not have duplicate entries for that order. Save this query as **OrdersWithDuplicates**.
7. Write a query to find the customers who placed at least one order containing a line item (order detail) with a quantity of at least 2 for a particular item. List the customer's First Name, Last Name and Contact ID. Your query result should not have duplicate entries for that customer. Save this query as **CustomersOrderingDups**.
8. Write a query to find the dates for which at least one customer placed at least one order containing a line item (order detail) with a quantity of at least 4 for a particular item. Your query result should not have duplicate entries for that date. Save this query as **DatesWith4XOrders**.
9. Write a query to find the customers who placed at least one order containing a line item (order detail) with a quantity of at least 50 for a particular item. List the customer's First Name, Last Name and Contact ID. Your query result should not have duplicate entries for that date. Save this query as **CustomersWith50**.

After you have completed these tasks, your modified version of the database should contain a number of additional queries. Submit this modified Access database to Blackboard.