

# Department of Computer Science and Engineering University of Notre Dame

## CSE 30246 - Database Concepts Fall 2009

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### ASSIGNMENT 4

**Due:** Fri 9/18/09

**Reading:** Read chapters 1 through 7 of your database textbook. Refer to class notes and class discussions.

#### **Problem 1:**

Using the SALEDB Access database that you created in assignment 3, do the following:

- using QBE, create queries for each of the following:
  - list names and commission rates of salespeople from Chicago (use Design View)
  - list product names and the country where they were made (use the Wizard; when done, take a look at the query's design)
- create reports for each of the following:
  - list salespeople who have sold something, and the profit they made, in decreasing order of profit
  - list customers who have purchased a product, and, for each of the customers, display the products purchased, along with each product's price and qty, and also display the total value of each customer's purchases

Give your queries and reports appropriate mnemonic names. Submit the Access database file in your personal dropbox, under a hw4 directory.

#### **Problem 2:**

Use Relational Calculus to solve the queries from Problem 2 of Assignment 3. As a reminder, the queries are (you may do this problem in a group of two if you wish; hand it in in class, with a typed cover sheet).

1. List the name and address of customer # 105.
2. List the salespeople's ID and name whose offices are in Brussels.
3. What are the names of the salespeople who sold products to customer Jefferson?
4. Name the salespeople who have sold to every customer in the USA.
5. Name customers who haven't bought anything.

#### **Due date:**

Friday 9 / 18 / 2009.