

Assignment #3

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Total Marks: 50 (5% of the Individual Assignments)

Due Date: Sept 30, 14:30

Question 1)

Based off the E-R Model, posted on the website as part of the solution for assignment #2 please draw out the Relational Model [15 marks], and then write the SQL CREATE TABLE commands to create this schema [20 marks] including all key and null constraints. If a business constraint cannot be captured at the database level, note it.

Question 2)

For the AdventureWorksLT database, installed in Assignment 2, schema available online, answer the following:

- What is the SQL command to return the full name(s) and full address(es) of all customers living in Montreal or Houston? [4 marks]
- What is the SQL command to return the full address(es) of all orders with total order price of more than \$100,000? [3 marks]
- Could the fields that make up the full address be the primary (composite) key to the Address table? Is this a good idea? Why, or why not? [3 marks]

Question 3)

Install Visual Studio 2010, either the full version from the CS department, or the Express version downloaded from Microsoft. During installation, specify all the components of VB.NET and C# so all of it is installed.

This question is straight-forward and is designed to ensure that you have everything up and running, and you can upload code into the electronic submission service.

Do this:

- Create a new application
- put a label onto the form
- Calculate how many products there are in the AdventureWorks database via a SQL query to the database.
- Write a friendly message to the TA during run-time telling him how many products there are.

[5 marks]