BCIT COMP 3602
C# Application Development

Assignment 7 Part A
Requirements

Assignment Date: Week 8
Due Date: **The day before Week 10 (Parts A and B together) @ 11:59 PM**

Assignment Objective

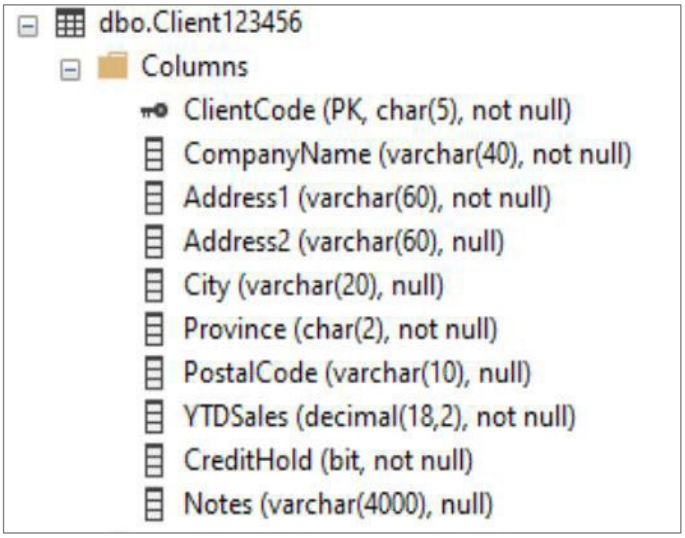
The purpose of this assignment is to query a table on a remote SQL Server, process and display the data in a Windows Form. This assignment serves as the starting point of a larger project. (More details in the coming weeks)

Requirements

1. Connect to the BCIT VPN to have access to the database server.
   Use ADO.NET to connect to the server specified:


```
Server=tcp:BUNKER3.EDU.BCIT.CA,1433;
Initial Catalog=TigerDB;
User ID=tiger;
Password=T1gerM@ster;
Encrypt=True;
TrustServerCertificate=True;
Connection Timeout=30;
```

2. Create a repository class and add a query to retrieve all the data from the Client table. Use the table specification below to aid in creating, executing, and processing your query. Note that at this point, we will only need to read data, not update anything in the database.



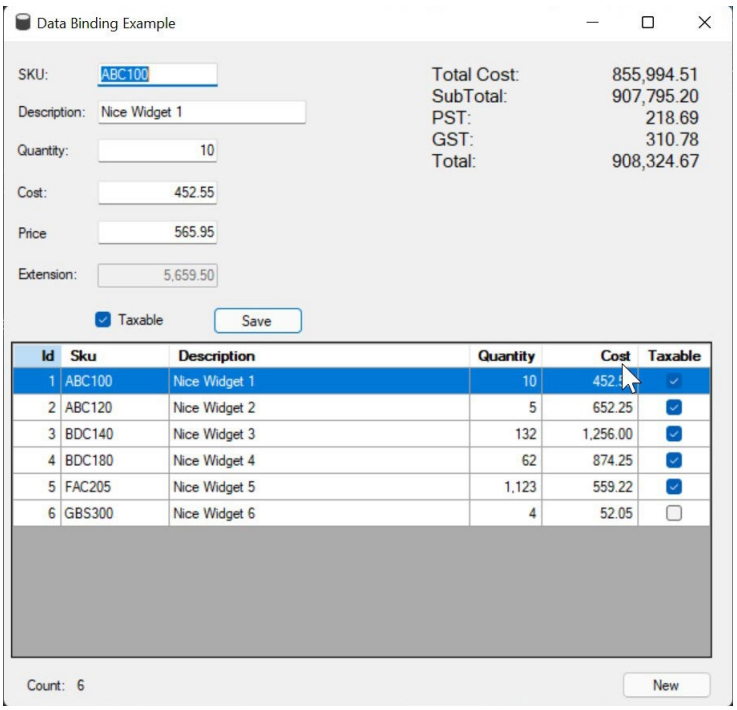
3. Create a data class and collection class to store the results of the query.

4. Create calculated properties for:
    - Total YTD Sales
    - Count of taxable clients
    - Count of clients with a credit hold

5. Create a ViewModel class to provide data binding to all the UI elements.

6. Display values for these calculated properties in the totals area as in Lab08/DataBindingDemoF.

7. Build a UI to display the Client data. Use the UI design from the DataBindingDemoF project as a guide for building your UI.
    - Note that there is no need for a "New" button yet or any supporting code to add new items – we will connect to a database and add CRUD operations in the future.
    - Note, DO include the Count at the bottom left.



For all your code, be sure to:

- Comment your code intelligently (no need to comment the obvious)

Marking Criteria:

- Design/Data Classes (8 marks)
- Databinding/View Model (5 marks)
- UI (10 marks)
- Coding Style (2 marks)
- Total - out of 25 marks

Please Hand In:

Zip your entire project and upload the zipped file to the Assign07ab Dropbox in the Learning Hub (**In Week 10 – together with part B - ONE submission only for both A and B**)