

Assignment Seven Part D Requirements

Assignment Date: Week 11

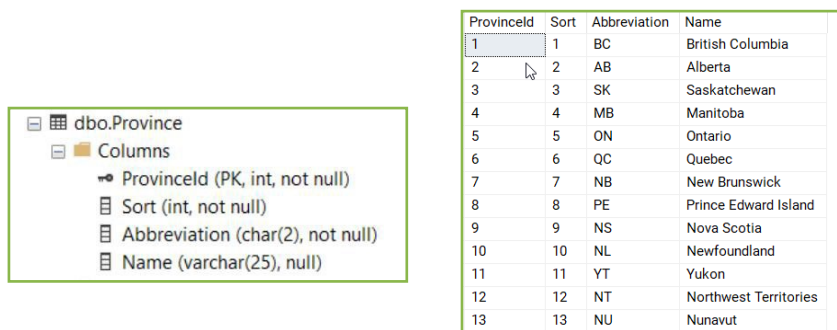
Due Date: Week 12 (All Parts – Final Version Only)

Assignment Objective

The purpose of this assignment is to refactor to a multi-project solution and to enhance validation and error reporting.

Your Tasks

- 1) Add a ClassLibrary project to your Solution and refactor as done in Lab11.
- 2) Add a way to report validation errors to the user in the Dialog.
- 3) Replace the MessageBox for validation errors only. (Keep the MessageBoxes for other errors/exceptions such as a network issue that causes the repository to throw an exception or the delete confirmation).
- 4) Force the ClientCode to always be all upper case and validate for pattern AAAAA. (All positions required)
- 5) Use a ComboBox to provide a Province selection list. Populate the ComboBox with the Province table; sorted by the sort column (specs below).



The image shows two parts of a SQL Server database. On the left is a screenshot of the 'dbo.Province' table structure in SQL Server Enterprise Manager. It lists the following columns: 'ProvinceId' (PK, int, not null), 'Sort' (int, not null), 'Abbreviation' (char(2), not null), and 'Name' (varchar(25), null). On the right is a screenshot of the 'Province' table data, showing 13 rows of data sorted by the 'Sort' column.

ProvinceId	Sort	Abbreviation	Name
1	1	BC	British Columbia
2	2	AB	Alberta
3	3	SK	Saskatchewan
4	4	MB	Manitoba
5	5	ON	Ontario
6	6	QC	Quebec
7	7	NB	New Brunswick
8	8	PE	Prince Edward Island
9	9	NS	Nova Scotia
10	10	NL	Newfoundland
11	11	YT	Yukon
12	12	NT	Northwest Territories
13	13	NU	Nunavut

- 6) Validate the PostalCode is uppercase and has a pattern of A9A 9A9. (All positions required)
- 7) Validate that if CreditHold is true, then Address1, City, Province, and PostalCode are required as well as Notes.
- 8) Display the values of the calculated properties written in part B. Display in labels on the Main Form.
- 9) Display a count of all of the records on the Main Form.

- 10) Display the difference between the currently selected client's YTDSales and the average YTDSales on the MainForm. Eg – if the current client has YTDSales of 1500.00 and the average of all clients is 1000.00, then the value to show is 500.00. Show with a red font if they are negative.
- 11) Ensure that you have validation in your form controls and in your code so that it isn't possible to exceed the stated limits of the various columns in the database (example: Notes column has a max of 4000 characters in the database – make sure this is enforced in both your Business Library and in the notes textbox).

Please Hand In:

Zip your entire project (Final Version Only) and upload the zipped file to the Assign07 Dropbox on the Learning Hub (**In Week 12**)

Assignment is due at 11:59 PM on the day before the Final Exam