**Customer DB Management Project Pseudocode**

**CustomerBindingNavigatorSaveItem\_Click**

Save the item

If the validation is true Then

Try

Validate

Update the customer database

Enable the Record Tool Strop Button

Catch ex as an exception

Display error message and ask to retry

Reset focus

End Try

Enable the calculate button

Enable querying

Enable ordering

Enable the search feature

Else

End If

**Mainform\_Load**

Load “preferred” and “not preferred” in classification combo box

Load “yes” and “no” in active status combo box

Load values with a loops with payment in terms of 1-5

Count by 1

Do While count is less than 6

Add count to payment terms code combo box

Counter

Loop

Add “USA” and “CAN” to country combo box

Add “NY”, “NJ”, “VT”, “MA”, “RI”, “DE”, “NS”, “QC”, “ON”, “PE”, and “NB” to state combo box

Load the the data into the “customer Database data set. Salesrep table

For each record

Create a new datarow for the “sales rep ID”

Next

Load data into the “customer database set.customer” table

**Joins()**

Declare queryResults by taking customer from the customer database and salesrep from the customer database

Where Customer ID equals Sales rep ID and also sales rep ID equals the sales rep ID inputted

Select the sales rep first name, last name, and region

Distinct

For Each result written into queryResults

Write sales rep information

Next

**clearCalculatedLables()**

clear total sales

clear average sale

clear max sales

clear min sales

**exitButton**

If

Display exit confirmation message, with yes, no and an icon Then

Close the app

Else

Return focus to customer ID Text Box and select all

End If

**Validation()**

Set validation check to false

If customer ID textbox is empty Then

Display error message and reset focus

ElseIf customer Name textbox is empty Then

Display error message and reset focus

ElseIf email address textbox is empty Then

Display error message and reset focus

ElseIf phone number textbox is empty Then

Display error message and reset focus

ElseIf website textbox is empty Then

Display error message and reset focus

ElseIf bill to address textbox is empty Then

Display error message and reset focus

ElseIf country combo box is empty Then

Display error message and reset focus

ElseIf state combo box is empty Then

Display error message and reset focus

ElseIf bill to city textbox is empty Then

Display error message and reset focus

ElseIf bill to postal code textbox is empty Then

Display error message and reset focus

ElseIf classification combo box is empty Then

Display error message and reset focus

ElseIf payment terms code combo box is empty Then

Display error message and reset focus

ElseIf activities status combo box is empty Then

Display error message and reset focus

ElseIf sales rep ID combo box is empty Then

Display error message and reset focus

Else

Set validation check to true

End IF

**nextButton\_Click**

Validate the data for null values and other validation

If validationcheck is true Then

Try

Move the next record

Catch ex as an exception

Display error message and ask to retry

Reset focus

End Try

Else

End IF

**previousButton\_Click**

Validate the data for null values and other validation

If the validationcheck is true Then

Try

Move to the previous record

Catch ex as an exception

Display error message and ask to retry

Reset focus

End Try

Else

End If

**firstButton\_Click**

Validate the data for null values and other validation

If the validationcheck is true Then

Try

Move to the first record

Catch ex as an exception

Display error message and ask to retry

Reset focus

End Try

Else

End If

**lastButton\_Click**

Validate the data for null values and other validation

If the validationcheck is true Then

Try

Move to the last button

Catch ex as an exception

Display error message and ask to retry

Reset focus

End Try

Else

End If

**BindingNavigatorAddNewItem\_Click**

Clear the sales rep label information

**SalesRepIDComboBox\_TextChanged**

If sales rep ID combo box is empty Then

Clear sales rep info label

Else

Store in queryResults From sales rep from the customer database

Where sales rep ID equals the sales rep ID entered

Select Sales rep First, Last, and Region

Distinct

For Each result in the queryResults

Display the sales rep information

Next

End If

**SearchByFirstNameToolStripMenuItem\_Click**

Store in queryResults From customer from the customer database

Where starting at the last customer Like the last search textbox input

Try

If the query result is zero Then

Display an error message

Else

Disable the calculate button

Clear the sales list box

End If

Catch ex as an exception

Display an error message

End Try

**refreshButton\_Click**

Select all of the rows From customer In customer database to refresh the list of people

Try

Add the queryResults into the customer binding source

Clear the labels

Clear the sales list box

Allow the calculate button to be pressed again

Enable the add button

Enable querying

Enable the order by feature

Enable the search feature

Catch ex as an exception

Display error message

End Try

**calculateButton\_Click**

Store in queryResults From customer In the customer database

Select customer sales and names

Distinct

Try

Add “customer” and “sales” and a space to sales listbox

For Each result in the query results

Add customer names and sales to sales listbox

Next

Catch ex as and exception

Display error message

Reset focus and select all for customer ID textbox

End Try

Calculate total sale from the customer database

Display the total sales

Calculate the average sales from the customer database

Display the average sales

Calculate the maximum from customer database

Display the maximum sales

Calculate the minimum from customer database

Display the minimum sales

**CountryComboBox\_TextChanged**

If the country is USA Then

Clear the state combo box

Add only the associated USA States

ElseIf the country is CAN Then

Clear the state combo box

Add only the associated CAN States

ElseIf the country is empty Then

Clear the state combo box

Add the State/Province Abbreviations

End If

**CANToolStripMenuItem\_Click**

Store in queryResults From customer in the customer database

Where the customer country is “CAN”

Try

If the queryResult is empty Then

Display an error message

Reset focus and select all

Else

Set the data source as the results from the queryResults

Disable the calculate button

Clear the calculated labels to remove what is there

Clear the calculated sales box

End If

Catch ex as an exception

Display error message

Reset focus and select all at the customer ID

End Try

**USAToolStripMenuItem\_Click**

Story in queryResults From customer in the customer database

Where the Customer is USA

Try

If the queryResult is empty Then

Display an error message

Reset focus and select all

Else

Set the data source as the results from the queryResults

Disable the calculate button

Clear the calculated labels to remove what is there

Clear the calculated sales box

End If

Catch ex as an exception

Display error message

Reset focus and select all at the customer ID

End Try

**NYCustomersToolStripMenuItem\_Click**

Story in queryResults From customer in the customer database

Where the Customer is NY

Try

If the queryResult is empty Then

Display an error message

Reset focus and select all

Else

Set the data source as the results from the queryResults

Disable the calculate button

Clear the calculated labels to remove what is there

Clear the calculated sales box

End If

Catch ex as an exception

Display error message

Reset focus and select all at the customer ID

End Try

**addRecordToolStripButton\_Click**

Try

Create a new record in the database

Catch ex as exception

Display error message

End Try

Disable the add record button

Disable the calculate button

Disable querying when creating a new record

Disable ordering by when creating a new record

Disable the search feature while creating a new record

Change all the drop down list boxes from the form to have no selections

**BindingNavigatorDeleteItem\_Click**

After deletion of a record, enable the add record button

**CustomerNameToolStripMenuItem\_Click**

Story in queryResults From customer in the customer database

Order By customer name

Try

If the queryResult is empty Then

Display an error message

Reset focus and select all

Else

Set the data source as the results from the queryResults

Disable the calculate button

End If

Catch ex as an exception

Display error message

Reset focus and select all at the customer ID

End Try

**ToolStripButton1\_Click**

If display confirmation message Then

Remove the current customer

Save Items

Else

End If

**PaymentTermsCodeComboBox\_TextChanged**

If the payment terms codes combo is 1 Then

Display "(Net 30) requires that the customer pay their balance owed within 30 days"

ElseIf payment terms codes combo box is 2 Then

Display "(10 Net 30) allows payment within 30 days with a 10% discount”

ElseIf payment terms codes combo box is 3 Then

Display “requires cash in advance"

ElseIf payment terms codes combo box is 4 Then

Display “requires cash on delivery"

ElseIf payment terms codes combo boxis 5 Then

Display “(5 Net 20) allows for payment within 30 days with a 5% discount”

ElseIf payment terms codes combo box is empty Then

Display nothing

End If