  
DataGridViewPaging Fixes

* The connection string is not working.

<add key="connectionString" value="Persist Security Info=False;Integrated Security=SSPI;Initial Catalog=Northwind;server=.\SQLEXPRESS"/>

* This form has the ability to paginate. Create a dropdown above the grid view that will display all numbers between 1 and 25 that when divided by 5, return a remainder of 0. Use Enumerable.Range to generate the first sequence and a lambda expression to filter out the numbers based on the criteria above.

Dim intarray = Enumerable.Range(1, 25).Where(Function(numberin As Integer)

Return (numberin Mod 5) = 0

End Function) \_

.Select(Function(numberin As Integer)

Return numberin.ToString()

End Function)

For Each strin As String In intarray

ComboBox1.Items.Add(strin)

Next

ComboBox1.SelectedIndex = ComboBox1.Items.Count - 1

* The pagination mechanism is done via inline SQL. Modify the code so that a stored procedure is used instead. Your parameters should be the page number and the rows per page. Hint: SQL Server has a ROW\_NUMBER you can look into.

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

use Northwind;

DROP PROCEDURE usp\_paginateorders;

GO

CREATE PROCEDURE usp\_paginateorders

@pageNumber INT,

@numberOfRows INT

AS

BEGIN

SET NOCOUNT ON;

DECLARE @PageSize INT = @numberOfRows,

@lowerPageBoundary INT = (@pageNumber - 1) \* @numberOfRows;

IF @pageNumber <= 1

BEGIN

Select Top (@PageSize) \* From Orders

Order By OrderID

END

ELSE

Select Top (@PageSize) \* From Orders

WHERE OrderID NOT IN

(SELECT TOP (@lowerPageBoundary)

OrderID From Orders Order By OrderID)

Order By OrderID

END

GO

command.CommandText = "usp\_paginateorders"

command.CommandType = CommandType.StoredProcedure

command.Parameters.Add("@pageNumber", SqlDbType.Int).Value = page

command.Parameters.Add("@numberOfRows", SqlDbType.Int).Value = PageSize

* The default title for this form is called MainForm. Change the title to reflect the current page. If there are a total of 5 pages to sift through and the current location is Page 3, then the form title should display “MainForm – Page 3”.

Me.Text = "MainForm – Page " & Me.CurrentPageIndex.ToString()

* The current data is sorted by Order Id. Change the default order to the Customer Id. Do not use SQL to order the data. Modify the VB.NET code to sort by Customer Id.

Dim view As New DataView(dt)

view.Sort = "CustomerID"

Dim dtout As DataTable = view.ToTable()

Return dtout

* The Ship Region column does not always display data. For any blank fields you see, substitute the value “N/A”. You can do this at the database or data table level.

UPDATE [Northwind].[dbo].[Orders] SET ShipRegion = 'N/A' WHERE ShipRegion IS NULL;

* Create an Interface with one method. The class that implements the one method from an interface should list the Company Name with the most orders and the amount spent on each order. The amount spent on each order will be the sum of the quantity \* unit price.  
  