**BIS 425**

**Information Systems Development Project**

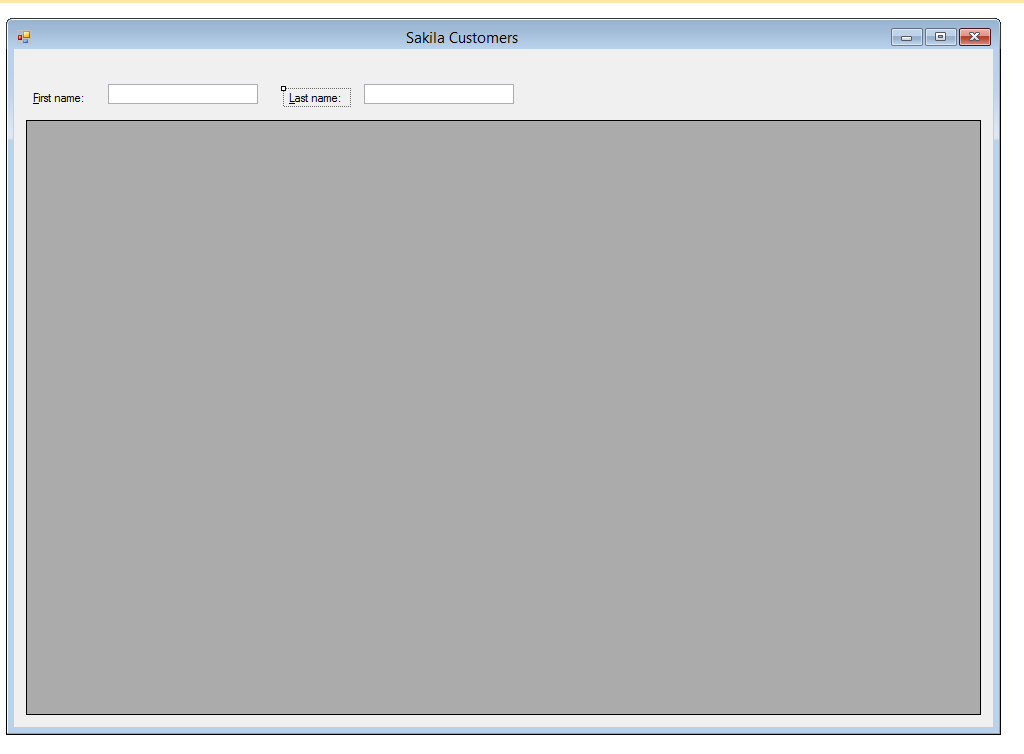
Assignment 2

Button less Search

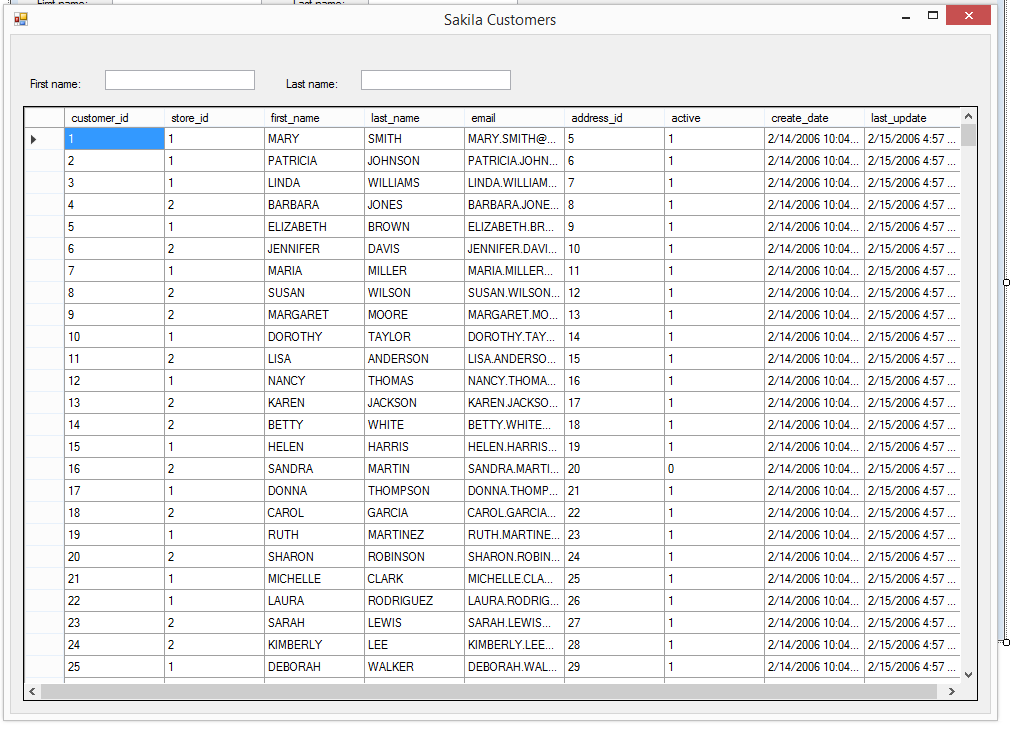
Due date: February 9, 2016

By: Ryan Grysen

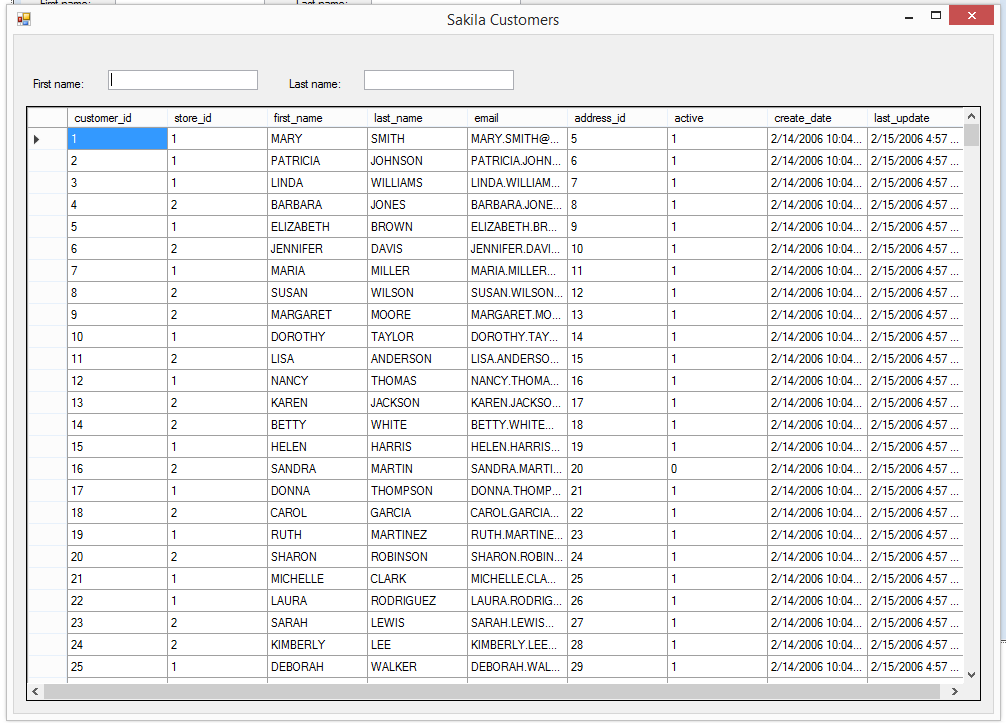
1. Design View



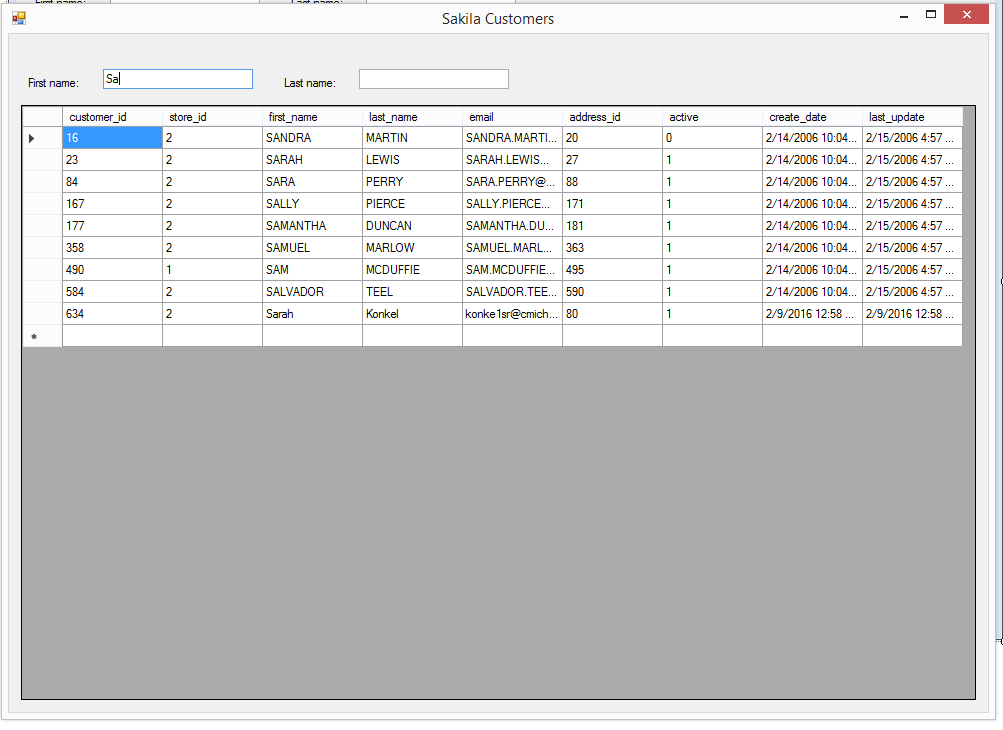
1. Execution Views
   1. Load



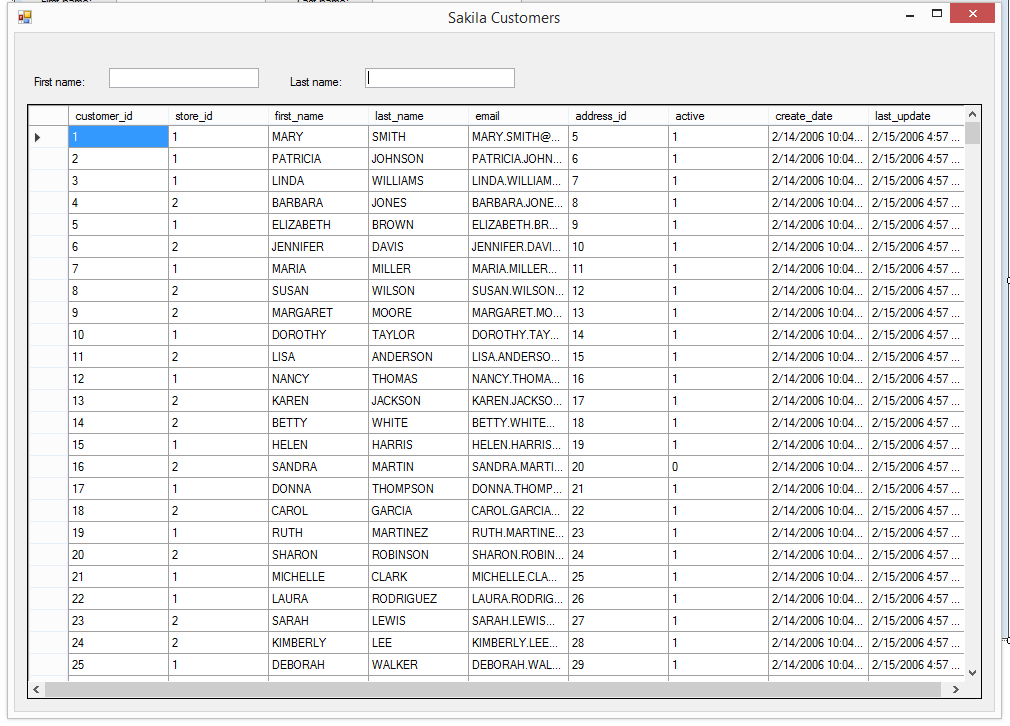
* 1. FirstNameTextBox Empty



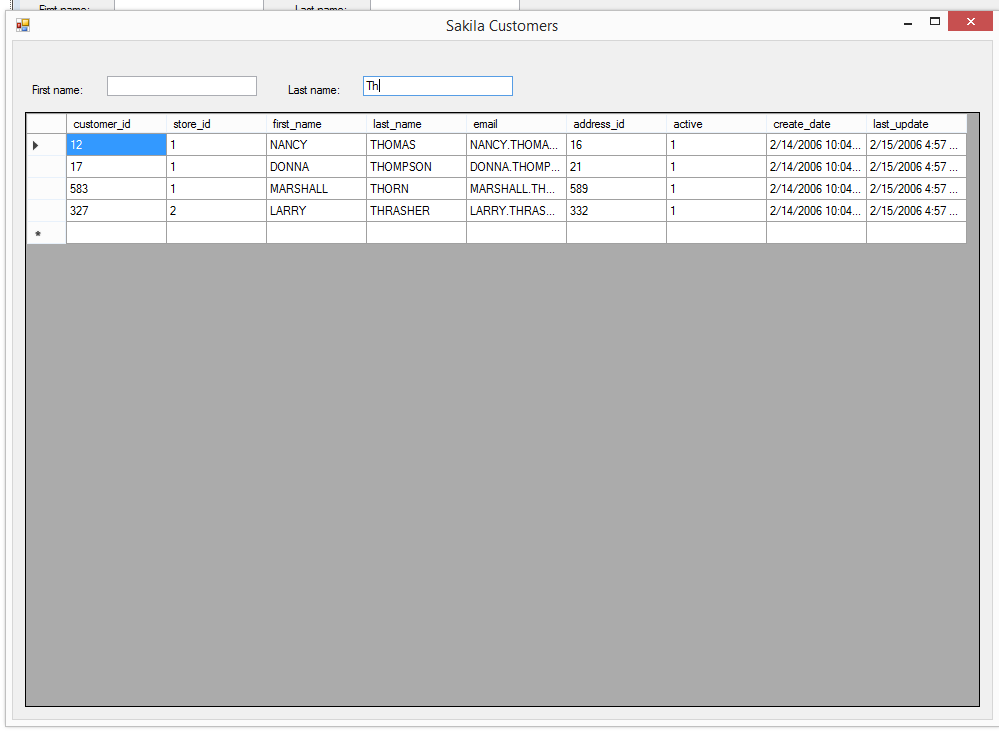
* 1. FirstNameTextBox with Text



* 1. LastNameTextBox Empty



* 1. LastNameTextBox with Text



1. Codes

‘Program: Assignemnt2

‘Programmer: Ryan Grysen

‘Date: February 9, 2016

‘Description: This project does a search of an SQL database by first and last name without buttons

Public Class CustomersForm

Private DB As New DBAccess

Private Sub CustomersForm\_Load(sender As System.Object, e As System.EventArgs) Handles MyBase.Load

DBDataGridView.ReadOnly = True

DB.ExecuteQuery("Select \* From customer")

If DB.Exception <> String.Empty Then

MessageBox.Show(DB.Exception)

Exit Sub

End If

'fill data grid

DBDataGridView.DataSource = DB.DBDataTable

End Sub

Private Sub LastNameTextBox\_TextChanged(Sender As System.Object, e As System.EventArgs) Handles LastNameTextBox.TextChanged

DB.AddParam("@lastname", LastNameTextBox.Text & "%")

DB.ExecuteQuery("SELECT \* FROM customer WHERE last\_name LIKE?")

If DB.Exception <> String.Empty Then

MessageBox.Show(DB.Exception)

Exit Sub

End If

'fill data grid

DBDataGridView.DataSource = DB.DBDataTable

If FirstnameTextBox.Text <> "" Then FirstnameTextBox.Clear()

End Sub

Private Sub Firstnametextbox\_TextChanged(sender As System.Object, e As System.EventArgs) Handles FirstnameTextBox.TextChanged

DB.AddParam("@firstname", FirstnameTextBox.Text & "%")

DB.ExecuteQuery("SELECT \* FROM customer WHERE first\_name LIKE?")

If DB.Exception <> String.Empty Then

MessageBox.Show(DB.Exception)

Exit Sub

End If

'fill data grid

DBDataGridView.DataSource = DB.DBDataTable

If LastNameTextBox.Text <> "" Then LastNameTextBox.Clear()

End Sub

End Class

‘Program: Assignemnt2

‘Programmer: Ryan Grysen

‘Date: February 9, 2016

‘Description: This project does a search of an SQL database by first and last name without buttons

Imports System.Data.Odbc

Public Class DBAccess

Private ConnectionString As String = "Driver={MySQL ODBC 5.3 ANSI Driver}; server=141.209.241.47; database=sakila; user=bis425c2g2; password=firstpass"

Private DBConnection As New OdbcConnection(ConnectionString)

Private DBCommand As OdbcCommand

'db data. make them public as they need to be accessed from presentation tier.

Public DBDataAdapter As OdbcDataAdapter

Public DBDataTable As DataTable

'query parameters

Public Params As New List(Of OdbcParameter)

'query statistics

Public RecordCount As Integer

Public Exception As String

'create a general procedure to execute queries to a database. SQL string are passed to the query as argument.

Public Sub ExecuteQuery(QueryString As String)

'resey query stats

RecordCount = 0

Exception = String.Empty

Try

'open a database connection

DBConnection.Open()

'create a database command

DBCommand = New OdbcCommand(QueryString, DBConnection)

'load parameters into DB command

For Each p As OdbcParameter In Params

DBCommand.Parameters.Add(p)

Next

Params.Clear()

'execute command and fill database

DBDataTable = New DataTable

DBDataAdapter = New OdbcDataAdapter(DBCommand)

RecordCount = DBDataAdapter.Fill(DBDataTable)

Catch ex As Exception

Exception = ex.Message

End Try

If DBConnection.State = ConnectionState.Open Then

DBConnection.Close()

End If

End Sub

'procedure to accept parameters for queries

Public Sub AddParam(Name As String, Value As Object)

Dim NewParam As New OdbcParameter(Name, Value)

Params.Add(NewParam)

End Sub

End Class