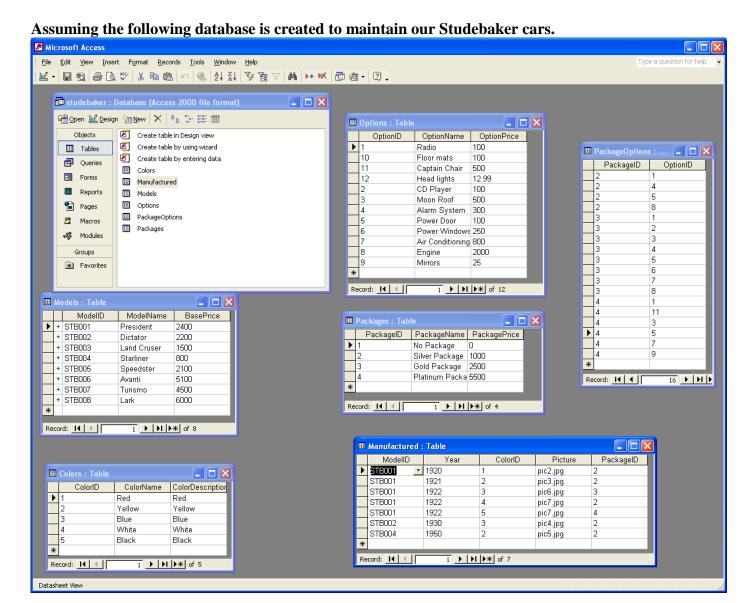
Lab 22 SQL Queries



In order to populate our GUI ComboBoxes, we need to query the database and retrieve the proper information. For the purpose of this assignment, we need to populate the following controls with proper data:

- 1) Model ComboBox
- 2) Year ComboBox
- 3) Color ComboBox
- 4) BasePrice TextBox
- 5) Ex. Credit (Package ComboBox and Options Textbox)

The code segment below demonstrates how one can construct a SQL statement. Note that each SQL string is displayed using the MessageBox.Show() to make sure the statement is correctly constructed.

Select all the available MODELS.

```
Dim sqlStr As String = "SELECT distinct ModelName FROM Models"
```

MessageBox.Show(sqlStr)

Select the YEARs when a given Model was manufactured. Prior to issuing such a query, we must know what the ModelID or ModelName is.

Selecting the COLORS available for a given Model and Year. Prior to issuing such a query, we must know what the ModelName and Year are.

MessageBox.Show(sqlStr)

Selecting the BASE PRICE associated with a given Model. In our current database, the BasePrice is associated to the Model. Therefore, prior to issuing such a query, we must know what the ModelID or ModelName is.

MessageBox.Show(sqlStr)

Selecting the PICTURE associated with a given Model, Year, and Color.

MessageBox.Show(sqlStr)

Selecting the OPTIONS associated with a given Model, Year, and Package. (This query will be used by those who are working on the extra credit)

```
" And " & _
"PackageOptions.Optionid = Options.OptionID"

MessageBox.Show(sqlStr)
```

Each of the above SQL statements could be tested using the shell module below:

```
Option Explicit On
Option Strict On
Imports System.Data.OleDb
Public Class Form1
    Inherits System. Windows. Forms. Form
   Private Sub Forml_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
       Dim SelectedModel, SelectedYear, SelectedPackage As String
       SelectedModel = "President"
       SelectedYear = "1922"
       SelectedPackage = "Gold Package"
       Dim connStr As String = "Provider=Microsoft.Jet.OLEDB.4.0;" & _
                                  "Data Source = Studebaker.MDB"
       Dim sqlStr As String = "SELECT .....
       MessageBox.Show(sqlStr)
       Dim dataAdapter As New OleDbDataAdapter(sqlStr, connStr)
       Dim dt As New DataTable
                                      'An internal (in memory) DataTable structure
       dataAdapter.Fill(dt)
                                      'load the DataTable from the database
                                     'Get rid of the connection.
       dataAdapter.Dispose()
       Dim RecordNo As Integer
       For RecordNo = 0 To dt.Rows.Count - 1
           MessageBox.Show(CStr(dt.Rows(RecordNo)("FILED_NAME")))
       Next RecordNo
   End Sub
End Class
```