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# VB



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# CONNECTING TO A DATABASE



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# CONNECTING TO A DATABASE

- What we will be using:
  1. SQL Client as a library of sql server objects
  2. Local Database MSSQL



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# INSTALLING SQL CLIENT



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# SQL CLIENT INSTALL

- When you connect to a database you can use many different tools.
- We are going to connect to our database using SQLClient
- <https://learn.microsoft.com/en-us/dotnet/api/system.data.sqlclient.sqlconnection?view=dotnet-plat-ext-7.0>



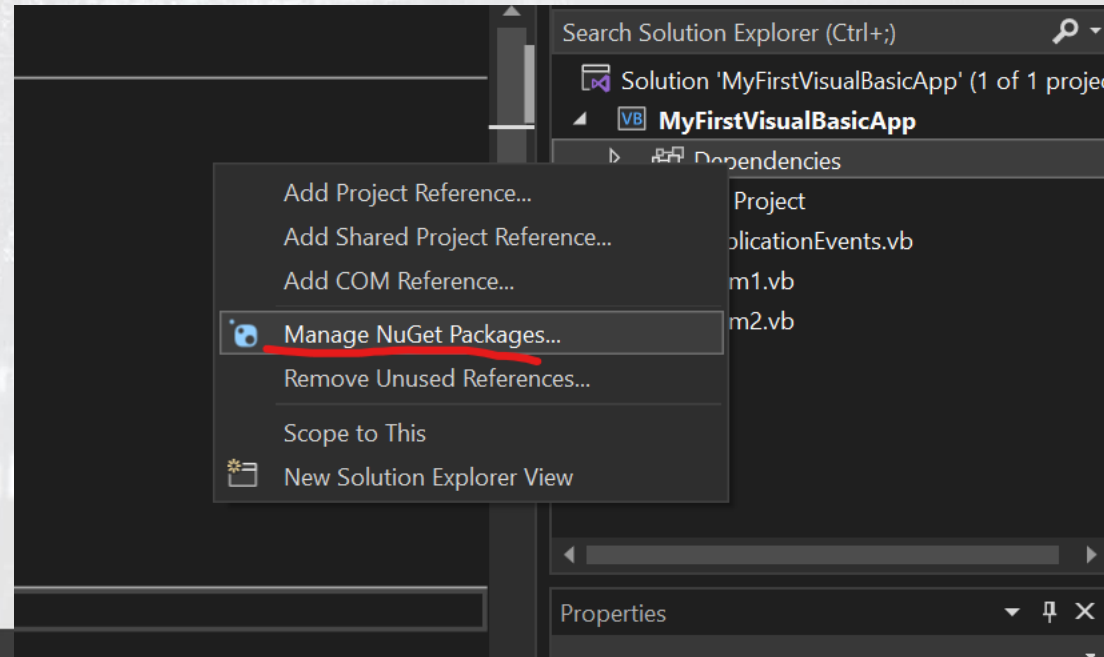


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# INSTALLATION

- In your Airline Reservation system
- Right click on dependencies and click Manage NuGet Packages...



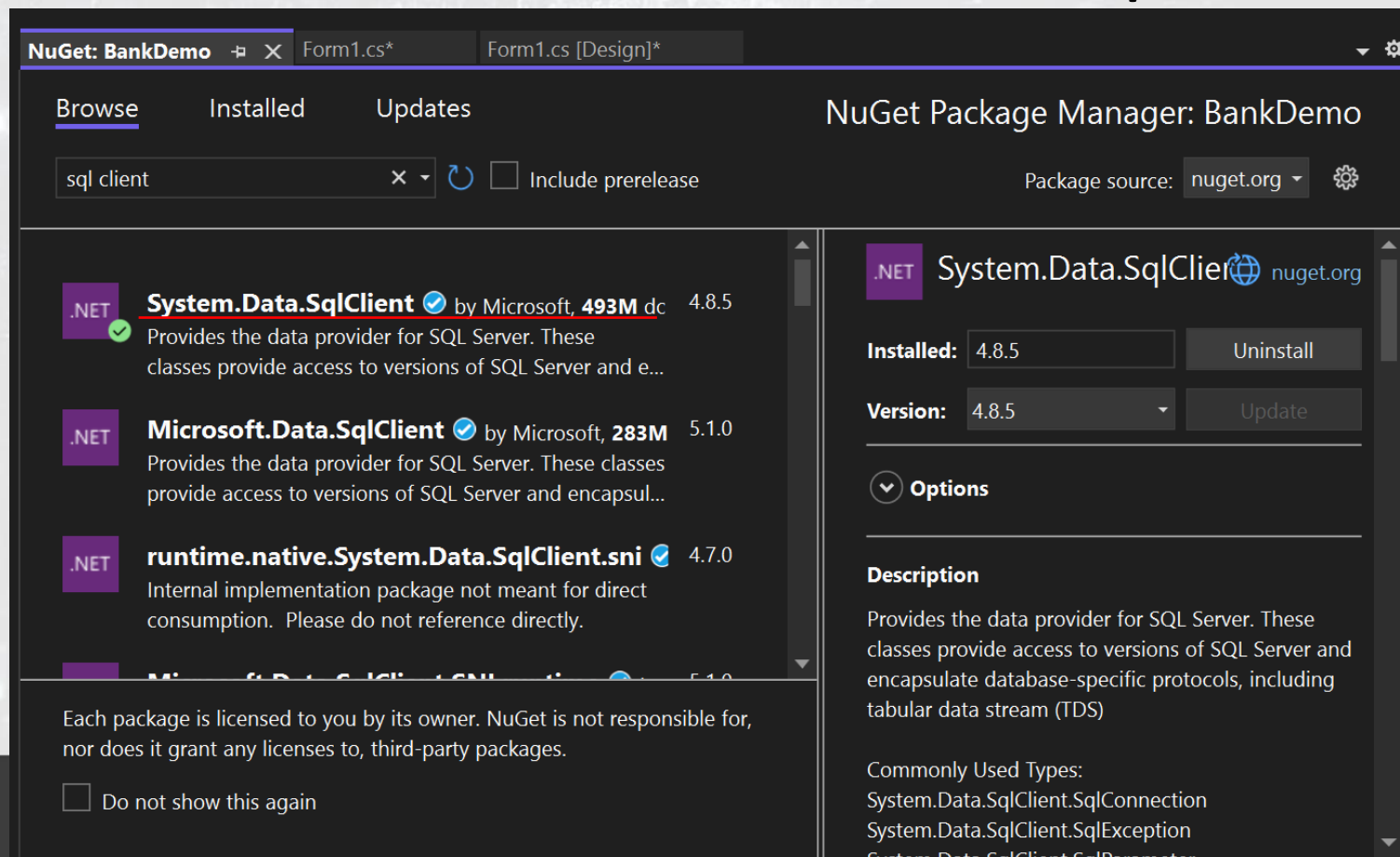


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# INSTALLATION

- Under the brows tab search for sql client, then install





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# ADD LOCAL DATABASE





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# LOCAL

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2) Add  
3) New Item

1. Right click on Project

Solution 'MyFirstVisualBasicApp' (1 of 1 projects)

MyFirstVisualBasicApp

- Dependencies
- MyProject
- ApplicationEvents.vb
- Form1.vb
- Form2.vb

Build

Rebuild

Clean

Analyze and Code Cleanup

Pack

Publish...

Scope to This

New Solution Explorer View

File Nesting

Edit Project File

Add

- Manage NuGet Packages...
- Manage User Secrets
- Remove Unused References...

Set as Startup Project

Debug

Cut Ctrl+X

Remove Del

Rename F2

Unload Project

Load Direct Dependencies

Load Entire Dependency Tree

Copy Full Path

Open Folder in File Explorer

Open in Terminal

Properties Alt+Enter

New Item... Ctrl+Shift+A

Existing Item... Shift+Alt+A

New Folder

From Cookiecutter...

Project Reference...

Shared Project Reference...

COM Reference...

Connected Service

Form (Windows Forms)...

User Control (Windows Forms)...

UE Class...

Component...

Module...

Class...

New EditorConfig

New EditorConfig (IntelliCode)

MyFirstVisualBasicApp Project Properties

MyFirstVisualBasicApp.vb

C:\repos\Teaching\VB\PE

C:\repos\Teaching\VB\PE

File Name

# Add New Item - MyFirstVisualBasicApp

Installed

Sort by:

Default

Search (Ctrl+E)

Common Items

Code

Data

General

Extensibility

SQL Server

Web

Windows Forms

Graphics

Online



ADO.NET Entity Data Model

Common Items



DataSet

Common Items



EF 5.x DbContext Generator

Common Items



EF 6.x DbContext Generator

Common Items



Service-based Database

Common Items



XML File

Common Items



XML Schema

Common Items



XML To Schema

Common Items



XSLT File

Common Items

Type: Common Items

An empty SQL Server database for service-based data access

Name:

Airline.mdf

Add

Cancel

Description

Project

File

Line

Suppression State




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# LOCAL DB


Search Solution Explorer (Ctrl+;)


 Solution 'MyFirstVisualBasicApp' (1 of 1 projects)


 **MyFirstVisualBasicApp**


▷  Dependencies


 My Project

 Airline.mdf ← Double click on  
Airline.mdf

 Airline\_log.ldf

▷  ApplicationEvents.vb

▷  Form1.vb

▷  Form2.vb



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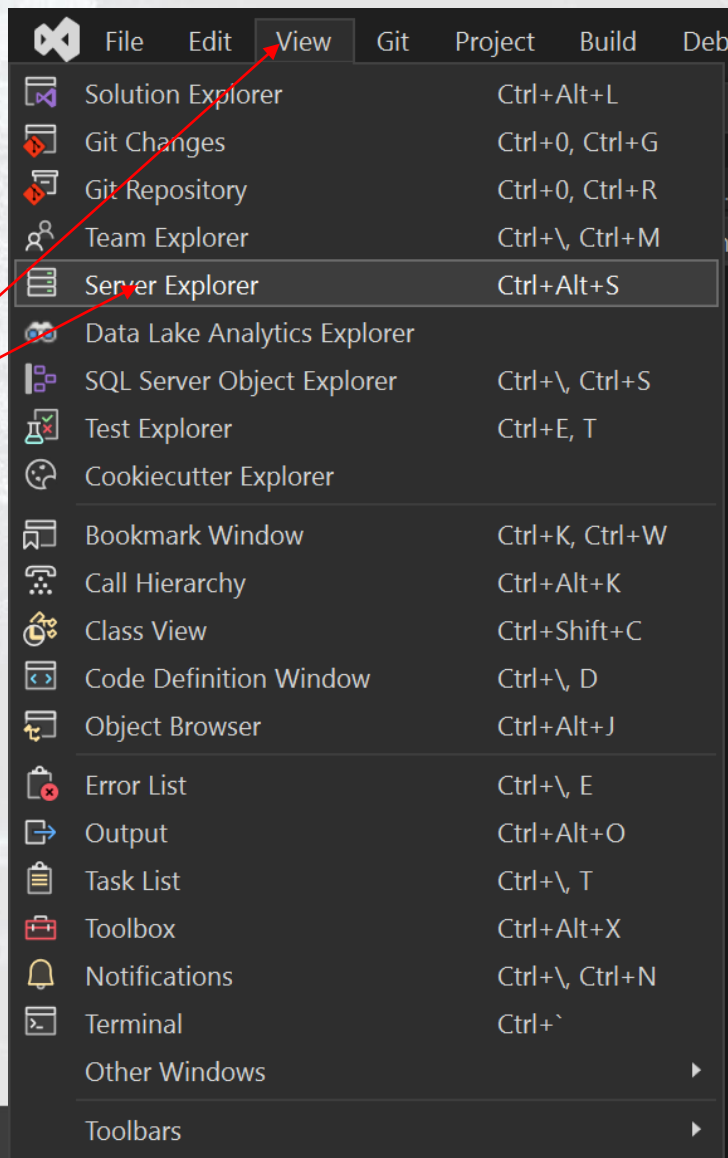
# ADD TABLES



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# ADD TABLES

- 1) View
- 2) Server Explorer



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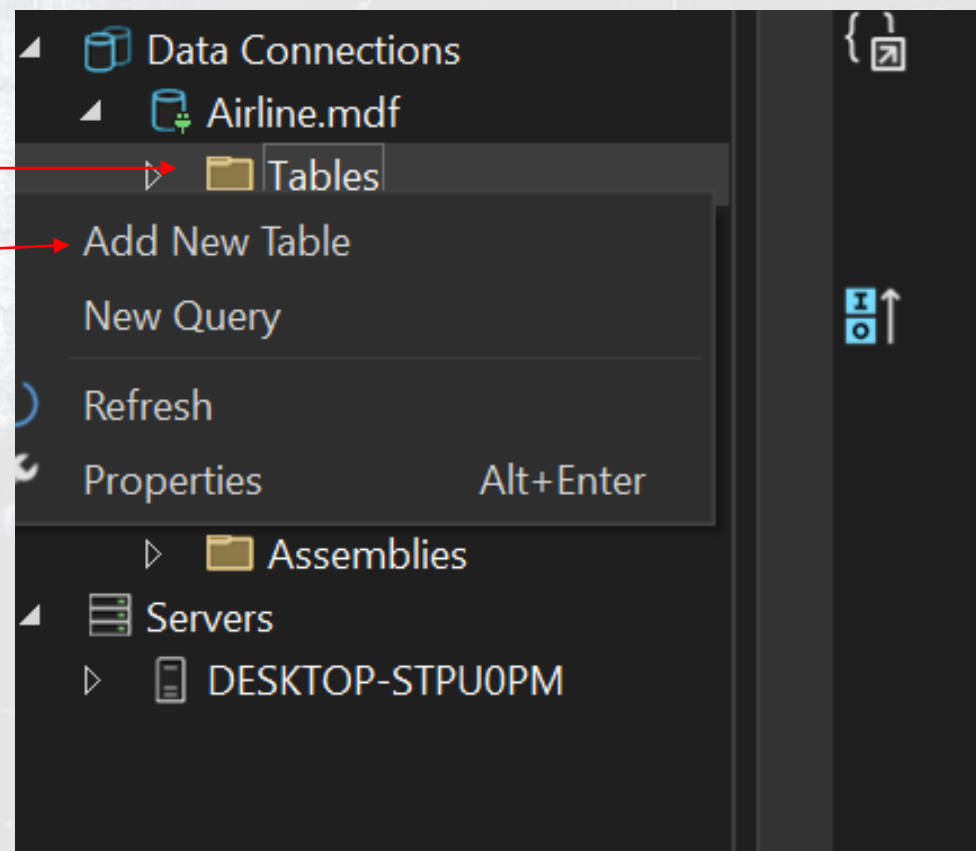
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# ADD TABLES

1) Right click on Tables

2) Add New Table



Update Script File: dbo.Table.sql\*

	Name	Data Type	Allow Nulls	Default
	Seat	int	<input type="checkbox"/>	
	FirstName	varchar(50)	<input type="checkbox"/>	
	LastName	varchar(50)	<input type="checkbox"/>	
			<input type="checkbox"/>	

#### Keys (1)

<unnamed> (Primary Key, Clustered: Seat)

Check Constraints (0)

Indexes (0)

Foreign Keys (0)

Triggers (0)

- 1) Add fields
- 2) Change Table Name

Design T-SQL

```

1 CREATE TABLE [dbo].[BusinessClass]
2 (
3     [Seat] INT NOT NULL PRIMARY KEY,
4     [FirstName] VARCHAR(50) NOT NULL,
5     [LastName] VARCHAR(50) NOT NULL
6 )
7
    
```

126 % No issues found

Ln: 1 Ch: 34 TABS MIXED

Connection Ready

(LocalDB)\MSSQLLocalDB | DESKTOP-STPU0PM\Mayas | C:\REPOS\TEACHING\VB\P...

Output

Show output from: Debug



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# ADD TABLES

dbo.BusinessClass [Design]\* X NuGet: MyFirstVisualBasicApp Form1.vb [Design] Form1.vb

Update Script File: dbo.Table.sql\*

Name	Data Type	Allow Nulls	Default
Seat	int	<input type="checkbox"/>	
FirstName	varchar(50)	<input type="checkbox"/>	
LastName	varchar(50)	<input type="checkbox"/>	
		<input type="checkbox"/>	

**Keys (1)**  
<unnamed> (Primary Key, Clustered: Seat)

**Check Constraints (0)**

**Indexes (0)**

**Foreign Keys (0)**

**Triggers (0)**

Design T-SQL

```
1 CREATE TABLE [dbo].[BusinessClass]
2 (
3     [Seat] INT NOT NULL PRIMARY KEY,
```



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# ADD TABLES

Preview Database Updates

**Highlights**  
None

**User actions**  
Create  
[dbo].[BusinessClass] (Table)

**Supporting actions**  
None

☒ Include transactional scripts

Generate Script

Update Database

Cancel



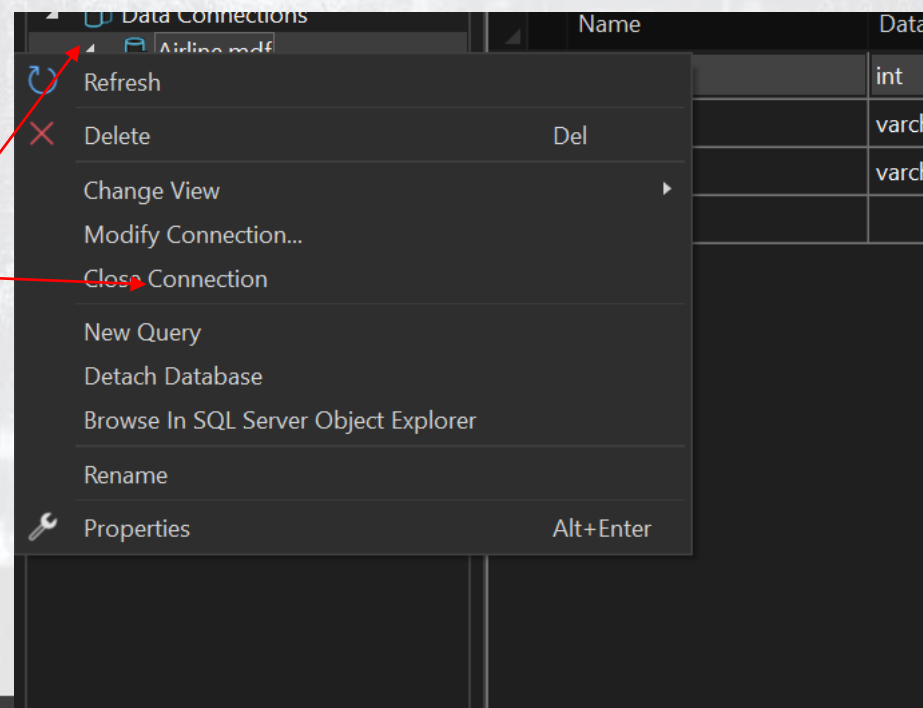
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# ADD TABLES

- When updating sometimes it can get stuck so breaking the connection from the server can fix this bug

- 1) Right click on Airline
- 2) Close Connection
- 3) Refresh







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# DATABASE CONNECTION



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# CONNECTING TO A DATABASE

- When connecting to a database from a front-end application there are two things to consider:
  1. How to connect to the database
  2. How to changing data in the database



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# SQLCLIENT OBJECTS



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# SQL CLIENT

- We will be using these objects from the SQL Client library:
- SqlConnection
- SqlCommand
- SqlDataReader



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# SQL CLIENT

- <https://learn.microsoft.com/en-us/dotnet/api/system.data.sqlclient.sqlconnection?view=dotnet-plat-ext-7.0>





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# SQL CONNECTION



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# MAKING THE CONNECTION

```
Imports System.Data.SqlClient
```

1 reference

```
Public Class Form1
```

```
Dim BusinessClass(20) As PictureBox
```

```
Dim BusinessClassNames(20) As RichTextBox
```

```
Dim NameTextBoxes(2) As TextBox
```

```
Dim NameLabel(2) As Label
```

```
Dim Names(2) As String
```

```
Dim myImageLocationPrefix As String = ""
```

```
Dim EmptySeatImg As String = "./airlineSeatEmpty.png"
```

```
Dim FullSeatImg As String = "./airlineSeat.png"
```

```
Dim ConnectionObj As SqlConnection
```

0 references

```
Private Sub Form1_Load(sender As Object, e As EventArgs) Handles MyBase.Load
```

```
ConnectionObj = New SqlConnection("Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename='C:\repos\Teaching\VB\PBLMT-2023\Airline - Copy\MyFirstVisualBasicApp\Airline.mdf';Integrated Security=True")
```

```
ConnectionObj.Open()
```

```
Dim xLocation As Integer = 10
```

```
Dim yLocation As Integer = 10
```

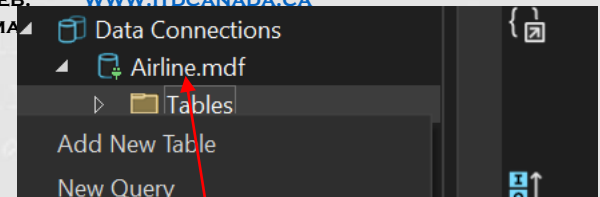
```
Names(0) = "First Name"
```

```
Names(1) = "Last Name"
```

1) Add Using to access the  
SQL Client and Data libraries

2) Make a Variable for the  
connection object and  
instantiate on the form load

3) Click on the airline.mdf,  
and go to properties to grab  
the connection string





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# SQL COMMAND



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# SQL COMMAND

```
Dim Cmd As New SqlCommand($"SELECT * FROM BusinessClass;", ConnectionObj)
```



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# DATA READER





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# DATA READER

```
Dim Cmd As New SqlCommand($"SELECT * FROM BusinessClass;", ConnectionObj)
Dim reader As SqlDataReader
reader = Cmd.ExecuteReader
If reader.HasRows = False Then
    reader.Close()
    Return
End If
While reader.Read
    Dim seat As Integer = Convert.ToInt32(reader.GetValue(0))
    Dim FirstName As String = reader.GetValue(1).ToString
    Dim LastName As String = reader.GetValue(2).ToString
    BusinessClass(seat).ImageLocation = FullSeatImg
    BusinessClassNames(seat).Text = $"{Names(0)}: {FirstName} {vbCrLf}{Names(1)}: {LastName} "
End While
reader.Close()
```



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# ADDING TO THE DB



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# ADDING

```
If SelectedPictureBox.ImageLocation = myImageLocationPrefix + EmptySeatImg Then
    SelectedPictureBox.ImageLocation = myImageLocationPrefix + FullSeatImg
    BusinessClassNames(PictureBoxNumber).Text = $"{Names(0)}: {NameTextBoxes(0).Text}
    {vbCrLf}{Names(1)}: {NameTextBoxes(1).Text} "
    Dim queryString As String = $"INSERT INTO BusinessClass (Seat,
        FirstName, LastName) VALUES ({PictureBoxNumber}, '{NameTextBoxes(0).Text}',
        '{NameTextBoxes(1).Text}')";

    Dim Cmd As New SqlCommand(queryString, ConnectionObj)
    Cmd.ExecuteNonQuery()
    MessageBox.Show("Record Added")

    NameTextBoxes(0).Clear()
    NameTextBoxes(1).Clear()
    Return
End If
```



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# DELETING FROM THE DB



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# DELETING

```
Dim cancelOrNot As DialogResult = MessageBox.Show("Are you sure you want to  
cancel?", "Yes/No", MessageBoxButtons.YesNo)  
If cancelOrNot = 6 Then  
    Dim Command As New SqlCommand($"DELETE FROM BusinessClass WHERE Seat =  
        '{PicBoxNumber}';", ConnectionObj)  
    Command.ExecuteNonQuery()  
    MessageBox.Show("Record Delete Successful!!")  
  
    SelectedPicBox.ImageLocation = myImageLocationPrefix + EmptySeatImg  
    BusinessClassNames(PicBoxNumber).Text = ""  
    For index = 0 To 1  
        NameTextBoxes(index).Clear()  
    Next  
End If
```