

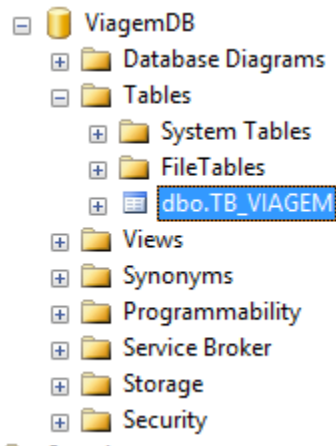
Aula 1 – Web Form Application + Entity Framework

Controle de Viagens			
Principal		Cadastro	
ID	DESCRICAO	DATA	Ações
8	POÇOS DE CALDAS	01/08/2016 00:00:00	Alterar Excluir
9	SÃO PEDRO	03/08/2016 00:00:00	Alterar Excluir

Cadastro:

Controle de Viagens	
Principal	Cadastro
<h3>Controle de Viagens</h3>	
Descrição:	<input type="text"/>
Data:	<input type="text"/>
<input type="button" value="Salvar"/>	

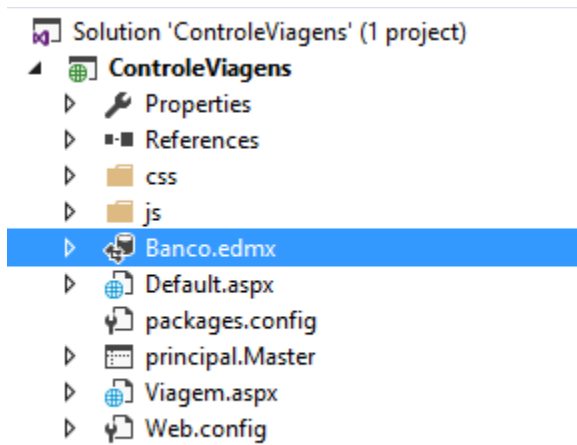
Banco de dados:



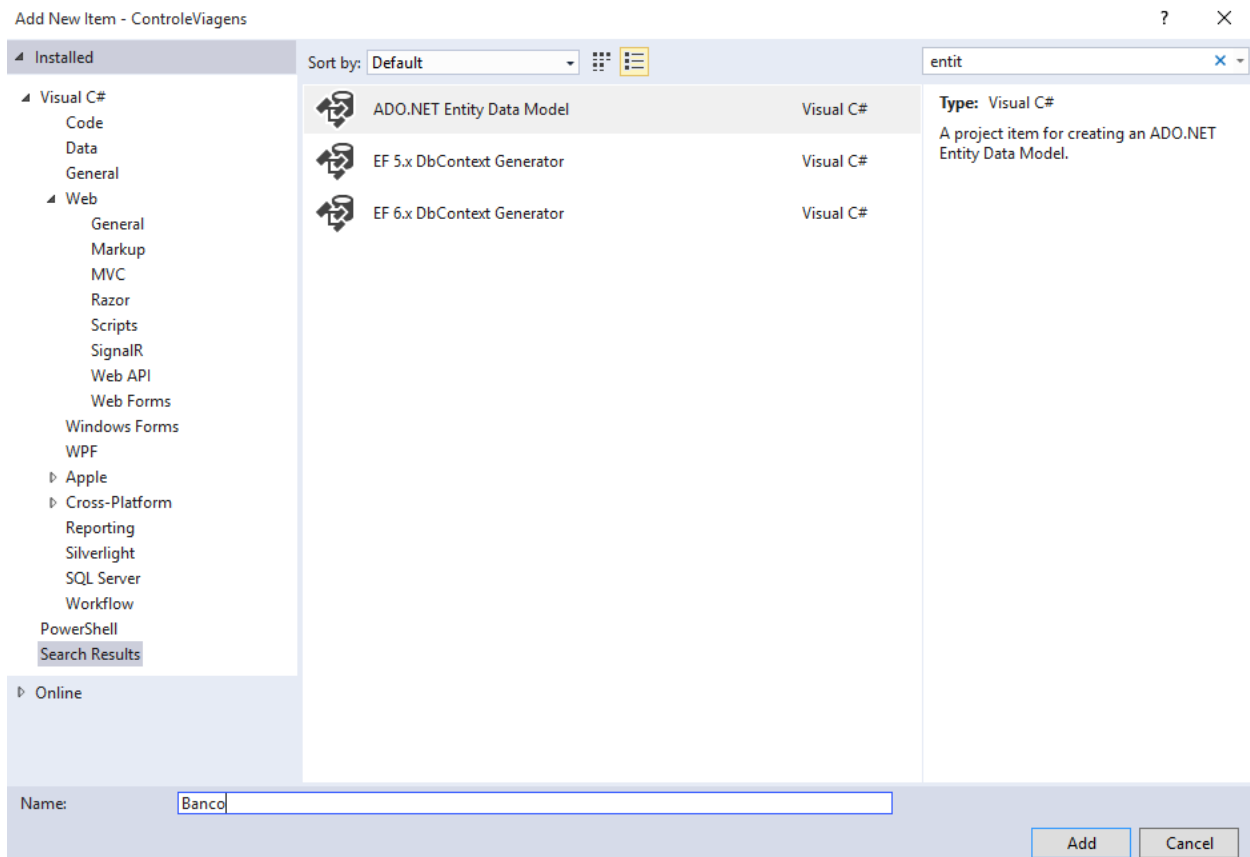
```
USE [ViagemDB]
GO
/***** Object: Table [dbo].[TB_VIAGEM]    Script Date: 05/08/2016 17:32:11 *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
SET ANSI_PADDING ON
GO

CREATE TABLE [dbo].[TB_VIAGEM](
    [id] [int] IDENTITY(1,1) NOT NULL,
    [descricao] [varchar](50) NULL,
    [data] [datetime] NULL,
    CONSTRAINT [PK_tb_viagem] PRIMARY KEY CLUSTERED
(
    [id] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS =
ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO
SET ANSI_PADDING OFF
GO
```

Estrutura do projeto:



Incluir um novo Entity Data Model (Responsável pela interação com a base de dados):



Selecionar a opção a seguir:

Entity Data Model Wizard



Choose Model Contents

What should the model contain?



EF Designer
from
database



Empty EF
Designer
model



Empty Code
First model



Code First
from
database

Creates a model in the EF Designer based on an existing database. You can choose the database connection, settings for the model, and database objects to include in the model. The classes your application will interact with are generated from the model.

< Previous

Next >

Finish

Cancel

Criar uma nova conexão:

Connection Properties

Enter information to connect to the selected data source or click "Change" to choose a different data source and/or provider.

Data source:
Microsoft SQL Server (SqlClient) Change...

Server name:
ANDRESIL2\SQLEXPRESS Refresh

Log on to the server

Authentication: Windows Authentication

User name:

Password:

☐ Save my password

Connect to a database

☒ Select or enter a database name:
ViagemDB

☐ Attach a database file:
Browse...

Logical name:

Advanced...

Test Connection OK Cancel

New Connection...

Entity Data Model Wizard



Choose Your Data Connection

Which data connection should your application use to connect to the database?

ViagemDBEntities (ControleViagens) ▾

New Connection...

This connection string appears to contain sensitive data (for example, a password) that is required to connect to the database. Storing sensitive data in the connection string can be a security risk. Do you want to include this sensitive data in the connection string?

- ☐ No, exclude sensitive data from the connection string. I will set it in my application code.
- ☐ Yes, include the sensitive data in the connection string.

Connection string:

```
metadata=res://*/Banco2.csdl|res://*/Banco2.ssdl|
res://*/Banco2.msl;provider=System.Data.SqlClient;provider connection string="data
source=ANDRESIL2\SQLEXPRESS;initial catalog=ViagemDB;integrated
security=True;multipleactiveresultsets=True;application name=EntityFramework"
```

☒ Save connection settings in Web.Config as:

ViagemDBEntities

< Previous


Next >

Finish






Cancel

Com a conexão configurada, clicar em NEXT.

Entity Data Model Wizard ✕

 **Choose Your Database Objects and Settings**

Which database objects do you want to include in your model?

- ☒  **Tables**
 - ☒  **dbo**
 - ☒  **TB_VIAGEM**
 - ☐  **Views**
 - ☐  **Stored Procedures and Functions**

☐ Pluralize or singularize generated object names
☒ Include foreign key columns in the model
☐ Import selected stored procedures and functions into the entity model

Model Namespace:

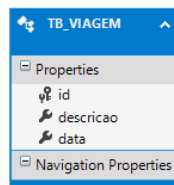
ViagemDBModel

< Previous
Next >
Finish
Cancel

Selecionar a tabela TB_VIAGEM.

Finish.

Com o arquivo *.edmx criado,



Vamos para a implementação.

Ao finalizar estes procedimento será inserida uma nova configuração no web.config (automaticamente):

```
<connectionStrings>
<add name="ViagemDBEntities" connectionString="metadata=res://*/Banco.csdl|res://*/Banco.ssdl|res://*/Banco.msl;provider=System.Data.Si
<entityFramework>
```

Principal.Master:

```
<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="principal.master.cs"
Inherits="ControleViagens.principal" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <!-- INCLUIR ESTILO-->
    <link href="css/bootstrap.css" rel="stylesheet" type="text/css" />
    <!-- INCLUIR Scripts-->
    <script src="js/jquery-2.1.1.min.js" type="text/javascript"></script>
    <script src="js/jquery.validate.js" type="text/javascript"></script>
    <script src="js/bootstrap.min.js" type="text/javascript"></script>
    <script src="js/script.js" type="text/javascript"></script>
    <asp:ContentPlaceHolder ID="head" runat="server">
    </asp:ContentPlaceHolder>
</head>
<body>
    <nav class="navbar navbar-inverse" role="navigation">
        <div class="container-fluid">
            <div class="navbar-header">
                <button type="button" class="navbar-toggle" data-toggle="collapse" data-
target="#bs-example-navbar-collapse-1">
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                </button>
                <a class="navbar-brand" href="Default.aspx">Controle de Viagens</a>
            </div>
            <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">
                <ul class="nav navbar-nav">
                    <li><a href="Default.aspx">Principal</a></li>
                    <li><a href="Viagem.aspx">Cadastro</a></li>
                </ul>
            </div>
        </div>
    </nav>
    <!-- CONTEUDO -->
    <div class="container">
        <asp:ContentPlaceHolder ID="ContentPlaceHolder" runat="server">

        </asp:ContentPlaceHolder>
    </div>
</body>
</html>
```


Default.aspx (Lembrando que esse é apenas o conteúdo do ContentPlaceHolder) -> “using master page”:

```

<script type="text/javascript">
    function MostrarPopupMensagem() {
        $("#modalMsg").modal('show');
    }

    function EsconderPopupDados() {
        $("#modalDados").modal('hide');
    }
</script>

<!-- /.modal -->
<div class="modal fade" id="modalMsg">
    <div class="modal-dialog">
        <div class="modal-content">
            <div class="modal-header">
                <button type="button" class="close" data-dismiss="modal"><span aria-
hidden="true">&times;</span><span class="sr-only">Close</span></button>
                <h4 class="modal-title" id="h1" runat="server">Modal title</h4>
            </div>
            <div class="modal-body">
                <p>
                    <label id="lblMsgPopup" runat="server">
</label>
                </p>
            </div>
            <div class="modal-footer">
                <button type="button" class="btn btn-danger" data-dismiss="modal">Ok</button>
            </div>
        </div>
    <!-- /.modal-content -->
</div>
<!-- /.modal-dialog -->
</div>
<form runat="server">
    <asp:GridView ID="GVViagem" runat="server" CellPadding="4" CssClass="table" ForeColor="#333333"
GridLines="None" AutoGenerateColumns="False" OnRowCommand="GVViagem_RowCommand">
        <AlternatingRowStyle BackColor="White" />
        <EditRowStyle BackColor="#2461BF" />
        <FooterStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" />
        <HeaderStyle BackColor="#507CD1" Font-Bold="True" ForeColor="White" />
        <PagerStyle BackColor="#2461BF" ForeColor="White" HorizontalAlign="Center" />
        <RowStyle BackColor="#FFF3FB" />
        <SelectedRowStyle BackColor="#D1DDF1" Font-Bold="True" ForeColor="#333333" />
        <SortedAscendingCellStyle BackColor="#F5F7FB" />
        <SortedAscendingHeaderStyle BackColor="#6D95E1" />
        <SortedDescendingCellStyle BackColor="#E9EBEF" />
        <SortedDescendingHeaderStyle BackColor="#4870BE" />
        <Columns>

            <asp:BoundField DataField="Id" HeaderText="ID" />
            <asp:BoundField DataField="Descricao" HeaderText="DESCRICAO" />
            <asp:BoundField DataField="Data" HeaderText="DATA" />

            <asp:TemplateField HeaderText="Ações">
                <ItemTemplate>
                    <asp:LinkButton runat="server" ID="btnAlterarMidia" CommandName="ALTERAR"
CommandArgument='<%# Eval("Id") %>' CssClass="btn btn btn-info" Text="Alterar" />
                    <asp:LinkButton runat="server" ID="btnExcluirMidia" CommandName="EXCLUIR"
CommandArgument='<%# Eval("Id") %>' CssClass="btn btn btn-primary" Text="Excluir" />
                </ItemTemplate>
            </asp:TemplateField>

        </Columns>
    </asp:GridView>
</form>

```

Default.aspx.cs:

```

8 namespace ControleViagens
9 {
10     2 references
11     public partial class Listar : System.Web.UI.Page
12     {
13         0 references
14         protected void Page_Load(object sender, EventArgs e)
15         {
16             CarregarLista();
17         }
18
19         2 references
20         private void CarregarLista()
21         {
22             ViagemDBEntities context = new ViagemDBEntities();
23             List<TB_VIAGEM> lstViagem = context.TB_VIAGEM.ToList<TB_VIAGEM>();
24
25             GVViagem.DataSource = lstViagem;
26             GVViagem.DataBind();
27         }
28
29         0 references
30         protected void GVViagem_RowCommand(object sender, GridViewCommandEventArgs e)
31         {
32             int idItem = Convert.ToInt32(e.CommandArgument.ToString());
33             ViagemDBEntities contextViagem = new ViagemDBEntities();
34             TB_VIAGEM viagem = new TB_VIAGEM();
35
36             viagem = contextViagem.TB_VIAGEM.First(c => c.id == idItem);
37
38             if (e.CommandName == "ALTERAR")
39             {
40                 Response.Redirect("Viagem.aspx?idItem=" + idItem);
41             }
42             else if (e.CommandName == "EXCLUIR")
43             {
44                 contextViagem.TB_VIAGEM.Remove(viagem);
45                 contextViagem.SaveChanges();
46                 string msg = "Viagem excluída com sucesso !";
47                 string titulo = "Informação";
48                 CarregarLista();
49                 DisplayAlert(titulo, msg, this);
50             }
51         }
52
53         1 reference
54         public void DisplayAlert(string titulo, string mensagem, System.Web.UI.Page page)
55         {
56             h1.InnerText = titulo;
57             lblMsgPopup.InnerText = mensagem;
58             ClientScript.RegisterStartupScript(typeof(Page), Guid.NewGuid().ToString(),
59                 "MostrarPopupMensagem();", true);
60         }
61     }
62 }

```

Viagem.aspx (Lembrando que esse é apenas o conteúdo do ContentPlaceHolder) → “using master page”:

```
<link rel="stylesheet" href="http://code.jquery.com/ui/1.9.0/themes/base/jquery-ui.css" />
<script src="http://code.jquery.com/jquery-1.8.2.js"></script>
<script src="http://code.jquery.com/ui/1.9.0/jquery-ui.js"></script>
<script>
    $(function () {
        $("#<%= txtdata.ClientID %>").datepicker({
            dateFormat: 'dd/mm/yy',
            dayNames: ['Domingo', 'Segunda', 'Terça', 'Quarta', 'Quinta', 'Sexta',
'Sábado', 'Domingo'],
            dayNamesMin: ['D', 'S', 'T', 'Q', 'Q', 'S', 'S', 'D'],
            dayNamesShort: ['Dom', 'Seg', 'Ter', 'Qua', 'Qui', 'Sex', 'Sáb', 'Dom'],
            monthNames: ['Janeiro', 'Fevereiro', 'Março', 'Abril', 'Maio', 'Junho',
'Julho', 'Agosto', 'Setembro', 'Outubro', 'Novembro', 'Dezembro'],
            monthNamesShort: ['Jan', 'Fev', 'Mar', 'Abr', 'Mai', 'Jun', 'Jul', 'Ago',
'Set', 'Out', 'Nov', 'Dez']
        });
    });
</script>
<form id="form1" runat="server">
    <article class="kanban-entry grab" id="item1" draggable="true">
        <div class="kanban-entry-inner">
            <div class="kanban-label">
                <h2><a href="#">Controle de Viagens</a> <span></span></h2>
                <p></p>
            </div>
        </div>
    </article>
    <div class="form-group">
        <label for="descricao">Descrição:</label>
        <asp:TextBox class="form-control" name="txtDescricao" ID="txtDescricao"
runat="server"></asp:TextBox>
    </div>
    <div class="form-group">
        <label for="Data">Data:</label>
        <asp:TextBox class="form-control" name="txtdata" ID="txtdata"
runat="server"></asp:TextBox>
    </div>
    <asp:Button class="btn btn-primary" ID="btnCadastrar" runat="server" Text="Salvar"
OnClick="btnCadastrar_Click" />
</form>
<br />

<% if (!String.IsNullOrEmpty(lblmsg.Text))
{
    <div class="alert alert-success">
        <a href="#" class="close" data-dismiss="alert" aria-label="close">&times;</a>
        <strong><asp:Label ID="lblmsg" runat="server" Text=""></asp:Label></strong>
    </div>
}
%>
```

Viagem.aspx.cs

```

8 namespace ControleViagens
9 {
10     2 references
11     public partial class Default : System.Web.UI.Page
12     {
13         0 references
14         protected void Page_Load(object sender, EventArgs e)
15         {
16             if (!IsPostBack)
17             {
18                 CarregarDadosPagina();
19             }
20         }
21         0 references
22         protected void btnCadastrar_Click(object sender, EventArgs e)
23         {
24             string descricaoViagem = txtDescricao.Text;
25             DateTime data = Convert.ToDateTime(txtdata.Text);
26             TB_VIAGEM v = new TB_VIAGEM() { descricao = descricaoViagem, data = data };
27             ViagemDBEntities contextViagem = new ViagemDBEntities();
28
29             string valor = Request.QueryString["idItem"];
30
31             if (String.IsNullOrEmpty(valor))
32             {
33                 contextViagem.TB_VIAGEM.Add(v);
34                 lblmsg.Text = "Registro Inserido!";
35                 Clear();
36             }
37             else
38             {
39                 int id = Convert.ToInt32(valor);
40                 TB_VIAGEM viagem = contextViagem.TB_VIAGEM.First(c => c.id == id);
41                 viagem.descricao = v.descricao;
42                 viagem.data = v.data;
43                 lblmsg.Text = "Registro Alterado!";
44             }
45         }
46     }
47 }

```

```
43
44         contextViagem.SaveChanges();
45     }
46
47     1 reference
48     private void Clear()
49     {
50         txtdata.Text = "";
51         txtDescricao.Text = "";
52         txtDescricao.Focus();
53     }
54
55     1 reference
56     private void CarregarDadosPagina()
57     {
58         string valor = Request.QueryString["idItem"];
59         int idItem = 0;
60         TB_VIAGEM viagem = new TB_VIAGEM();
61         ViagemDBEntities contextViagem = new ViagemDBEntities();
62
63         if (!String.IsNullOrEmpty(valor))
64         {
65             idItem = Convert.ToInt32(valor);
66             viagem = contextViagem.TB_VIAGEM.First(c => c.id == idItem);
67
68             txtDescricao.Text = viagem.descricao;
69             txtdata.Text = viagem.data.ToString();
70         }
71     }
```