

```
Imports System.Data
Imports System.Data.SqlUsuario
Public Class UsuarioDAO
    Implements IUserioDAO(Of Usuario)
```

```
    Private Shared ReadOnly instancia As New UsuarioDAO()
```

```
    Sub New()
```

```
End Sub
```

```
    Public Shared Function GetInstance() As UsuarioDAO
```

```
        Return instancia
```

```
End Function
```

```
    Public Function Consultar(ByVal nome As String) As DataTable  
Implements IUserioDAO(Of Usuario).Consultar
```

```
    Try
```

```
        Using con As SqlConnection = ConexaoBD.GetInstancia.GetConnection()
```

```
            Try
```

```
                con.Open()
```

```
                Dim sql As String = ("Select nome, idade from usuario where nome = '"
```

```
& nome & "'")
```

```
                Dim cmd As SqlCommand = New SqlCommand(sql, con)
```

```
                Dim da As SqlDataAdapter = New SqlDataAdapter(cmd)
```

```
                Dim usuario As DataTable = New DataTable
```

```
                da.Fill(usuario)
```

```
                Return usuario
```

```
            Catch ex As SqlException
```

```
                Throw ex
```

```
            Finally
```

```
                con.Close()
```

```
            End Try
```

```
        End Using
```

```
    Catch ex As Exception
```

```
        Throw ex
```

```
    End Try
```

```
End Function
```

```
    Public Sub Gravar(ByVal usuario As Usuario)  
Implements IUserioDAO(Of Usuario).Gravar
```

```
    Try
```

```
        Using con As SqlConnection = ConexaoBD.GetInstancia.GetConnection()
```

```
            Try
```

```
                con.Open()
```

```
                Dim cmd As SqlCommand = New SqlCommand()
```

```
                cmd.Connection = con
```

```
                cmd.CommandText = "INSERT INTO Usuario (nome, idade) values
```

```
(@nome, @idade)"
```

```
                Dim parNome As SqlParameter = New SqlParameter("@nome",
```

```
usuario.NomeUsuario)
```

```
                Dim parIdade As SqlParameter = New SqlParameter("@idade",
```

```
usuario.IdadeUsuario)
```

```
                cmd.Parameters.Add(parNome)
```

```
                cmd.Parameters.Add(parIdade)
```

```
                cmd.ExecuteNonQuery()
```

```
            Catch ex As SqlException
```

```
                Throw ex
```

```
            Finally
```

```
                con.Close()
```

```
            End Try
```

```
        End Using
```

```
    Catch ex As Exception
```

```

        Throw ex
    End Try
End Sub
Public Function ExibirTodos() As List(Of Usuario)
Implements IUserioDAO(Of Usuario).ExibirTodos
    Try
        Using con As SqlConnection = ConexaoBD.GetInstancia.GetConnection()
            Try
                con.Open()
                Dim sql As String = ("Select Id,nome, idade from Usuario")
                Dim listaUsuarios As IList(Of Usuario) = New List(Of Usuario)
                Dim cmd As SqlCommand = New SqlCommand(sql, con)
                Dim dr As SqlDataReader = cmd.ExecuteReader
                While (dr.Read)
                    Dim Usuario As New Usuario
                    Usuario.Codigo = CLng(dr("Id"))
                    Usuario.NomeUsuario = dr("nome")
                    usuario.idadeUsuarios= = CInt(dr("idade"))
                    listaUsuario.Add(usuario)
                End While
                Return listaUsuarios
            Catch ex As SqlException
                Throw ex
            Finally
                con.Close()
            End Try
        End Using
    Catch ex As Exception
        Throw ex
    End Try
End Function
End Class

```