```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Data.SqlClient;
using System.Configuration;
using System.Data;
namespace CsharpWebAppDemo.Database.Models
    public class Author
        public List<AuthorModel> GetAllAuthors()
        {
            //Connection Open
            //Build and Execute Command (Select AuthorId, AuthorName from ListAuthor)
            //Generate List<AuthorModel>
            //Return List<AuthorModel>
            string CS = ConfigurationManager.ConnectionStrings
                                                                                        P
              ["SqlDbCS"].ConnectionString;
            SqlConnection conn = new SqlConnection(CS);
            SqlCommand cmd = new SqlCommand();
            SqlDataReader DataReader;
            cmd.CommandText = "SELECT AuthorId, AuthorName FROM ListAuthor";
            cmd.CommandType = System.Data.CommandType.Text;
            cmd.Connection = conn;
            if (conn.State == System.Data.ConnectionState.Closed)
            {
                conn.Open();
            }
            DataReader = cmd.ExecuteReader();
            List<AuthorModel> ListAuthor = new List<AuthorModel>();
            AuthorModel Author;
            while (DataReader.Read())
            {
                Author = new AuthorModel();
                Author.AuthorId = (int)DataReader["AuthorId"];
                Author.AuthorName = DataReader["AuthorName"].ToString();
                ListAuthor.Add(Author);
            }
            conn.Close();
            cmd.Dispose();
```

```
DataReader.Close();
    return ListAuthor;
}
public List<AuthorModel> Authors()
    //Connection Open
    //Build and Execute Command (Select AuthorId, AuthorName from ListAuthor)
    //Generate List<AuthorModel>
    //Return List<AuthorModel>
    string CS = ConfigurationManager.ConnectionStrings
                                                                               P
      ["SqlDbCS"].ConnectionString;
    SqlConnection conn = new SqlConnection(CS);
    SqlCommand cmd = new SqlCommand();
    SqlDataReader DataReader;
    cmd.CommandText = "SELECT AuthorId, AuthorName FROM ListAuthor";
    cmd.CommandType = System.Data.CommandType.Text;
    cmd.Connection = conn;
    if (conn.State == System.Data.ConnectionState.Closed)
        conn.Open();
    }
    DataReader = cmd.ExecuteReader();
    List<AuthorModel> ListAuthor = new List<AuthorModel>();
    AuthorModel Author;
    while (DataReader.Read())
        Author = new AuthorModel();
        Author.AuthorId = (int)DataReader["AuthorId"];
        Author.AuthorName = DataReader["AuthorName"].ToString();
        ListAuthor.Add(Author);
    }
    conn.Close();
    cmd.Dispose();
    DataReader.Close();
    return ListAuthor;
}
public List<AuthorModel> AuthorsDisconnected()
```

```
//Connection Open
   //Build and Execute Command (Select AuthorId, AuthorName from ListAuthor)
   //Generate List<AuthorModel>
   //Return List<AuthorModel>
   string CS = ConfigurationManager.ConnectionStrings
                                                                                P
      ["SqlDbCS"].ConnectionString;
   string QueryStr = "SELECT * FROM ListAuthor";
   using (SqlConnection DBConnection = new SqlConnection(CS))
   {
        DataTable dt = new DataTable();
        SqlDataAdapter da = new SqlDataAdapter(QueryStr, DBConnection);
        da.Fill(dt);
        List<AuthorModel> ListAuthor = new List<AuthorModel>();
        AuthorModel Author;
        //Complicated Code
        //for (int i=0; i<dt.Rows.Count; i++)</pre>
        //{
              Author = new AuthorModel();
        //
        //
              Author.AuthorId = int.Parse(dt.Rows[i]["AuthorId"].ToString());
              Author.AuthorName = dt.Rows[i]["AuthorName"].ToString();
        //
        //
              ListAuthor.Add(Author);
        //}
        //Simplified Version
        foreach(DataRow row in dt.Rows)
            Author = new AuthorModel();
            Author.AuthorId = int.Parse(row["AuthorId"].ToString());
            Author.AuthorName = row["AuthorName"].ToString();
            ListAuthor.Add(Author);
        }
        return ListAuthor;
   }
}
public List<AuthorModel> AuthorsDisconnectedDS()
{
   //Connection Open
   //Build and Execute Command (Select AuthorId, AuthorName from ListAuthor)
   //Generate List<AuthorModel>
   //Return List<AuthorModel>
   string CS = ConfigurationManager.ConnectionStrings
                                                                                P
      ["SqlDbCS"].ConnectionString;
   string QueryStr = "SELECT * FROM ListAuthor";
```

```
using (SqlConnection DBConnection = new SqlConnection(CS))
        DataSet dt = new DataSet();
        SqlDataAdapter da = new SqlDataAdapter(QueryStr, DBConnection);
        da.Fill(dt);
        List<AuthorModel> ListAuthor = new List<AuthorModel>();
        AuthorModel Author;
        //Simplified Version
        foreach (DataRow row in dt.Tables[0].Rows)
            Author = new AuthorModel();
            Author.AuthorId = int.Parse(row["AuthorId"].ToString());
            Author.AuthorName = row["AuthorName"].ToString();
            ListAuthor.Add(Author);
        }
       return ListAuthor;
    }
}
public SqlDataReader GetAllAuthors2()
    //Connection Open
    //Build and Execute Command (Select AuthorId, AuthorName from ListAuthor)
    //Generate List<AuthorModel>
    //Return List<AuthorModel>
    string CS = ConfigurationManager.ConnectionStrings
                                                                               P
      ["SqlDbCS"].ConnectionString;
    SqlConnection conn = new SqlConnection(CS);
    SqlCommand cmd = new SqlCommand();
    //SqlDataReader DataReader;
    cmd.CommandText = "SELECT AuthorId, AuthorName FROM ListAuthor";
    cmd.CommandType = System.Data.CommandType.Text;
    cmd.Connection = conn;
    if (conn.State == System.Data.ConnectionState.Closed)
    {
        conn.Open();
    }
    return cmd.ExecuteReader();
}
```

```
...Net\WebAppDemo\CsharpWebAppDemo\Database\Models\Author.cs
}
```

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}