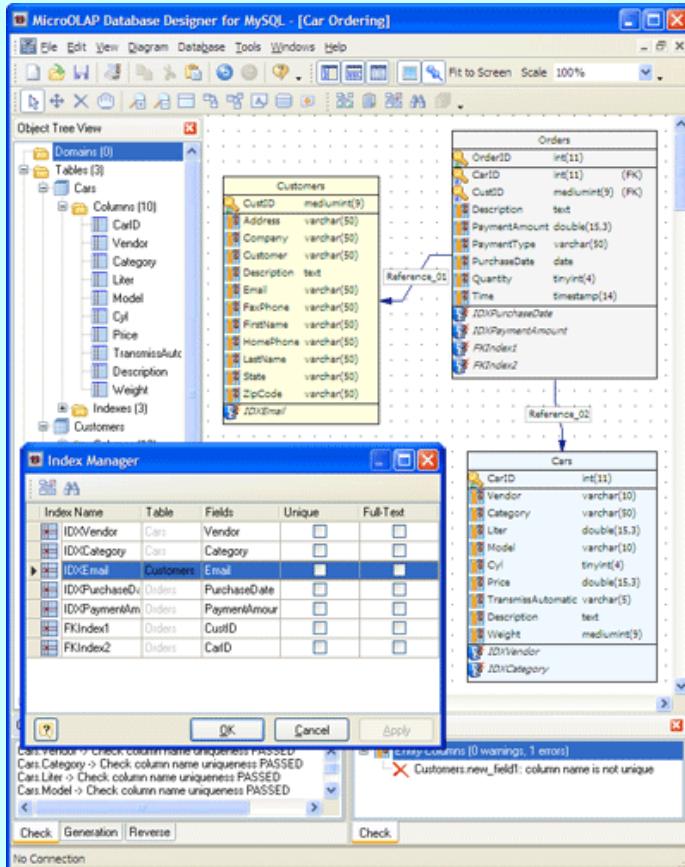


Database Systems



Topic 11 : SQL Server Database - Content Management

Unit 12: Relational Database on SQL Server

Objective :

- At the end of this unit, you should be able to:
 - Import established Web forms and database into Visual Studio
 - Bind the web form to the database
 - Manipulate data in database with programming code.

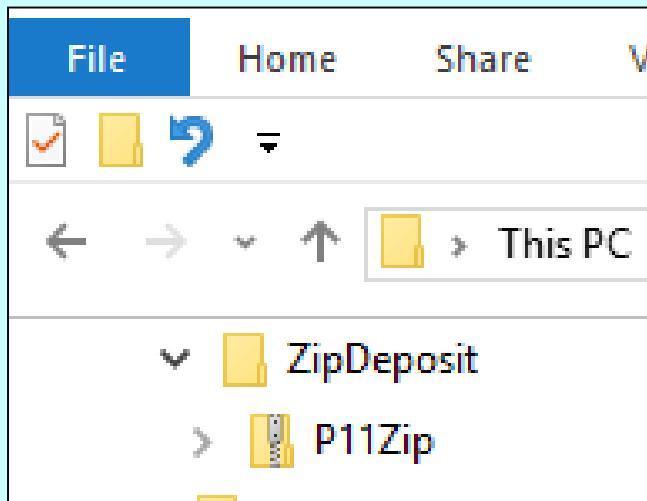
Relational Database in SQL Server

- 1) How to import established **Web forms** and **database** ?
- 2) Insertion, update, Deletion of records through web forms
- 3) Use of Data Grid for content management

Import established Web forms and Database

Start from Windows Explorer

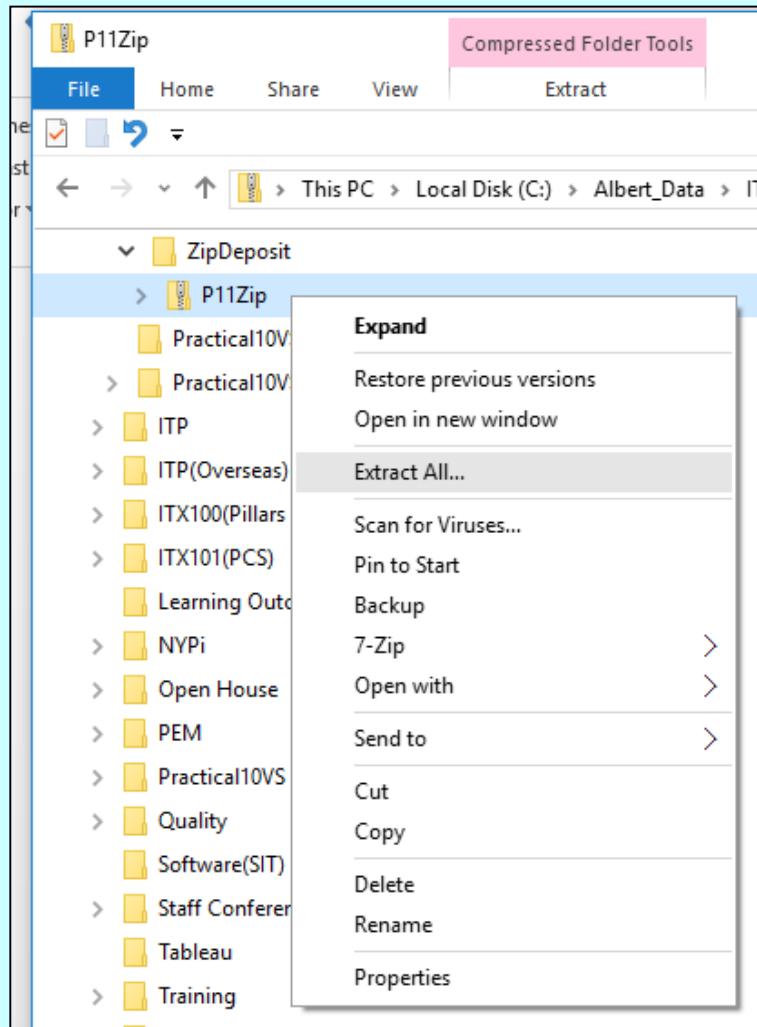
1) Create a working folder (e.g. ZipDeposit)



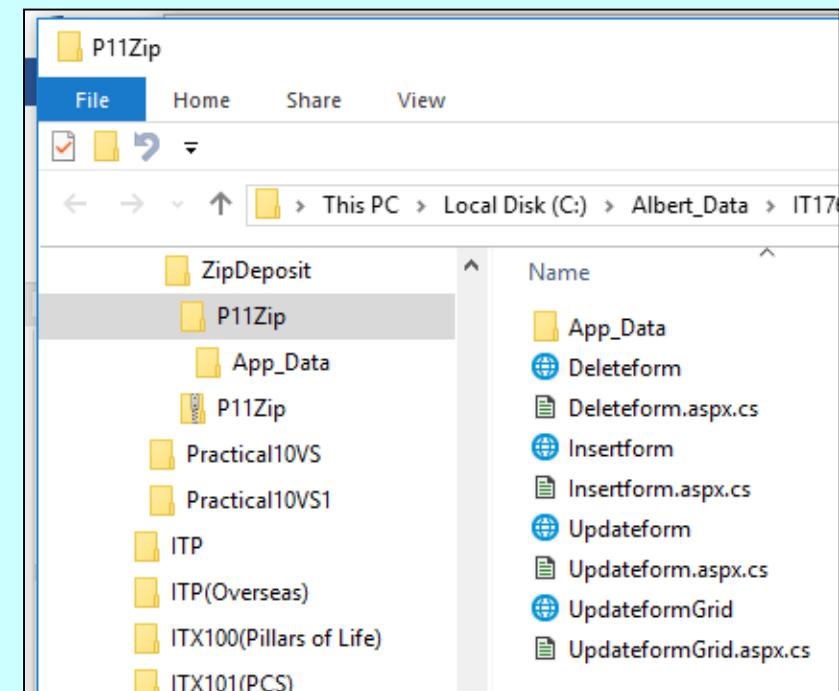
2) Import a zip folder (P11Zip) with established web forms and database

Import established Web forms and Database

3) Extract P11Zip

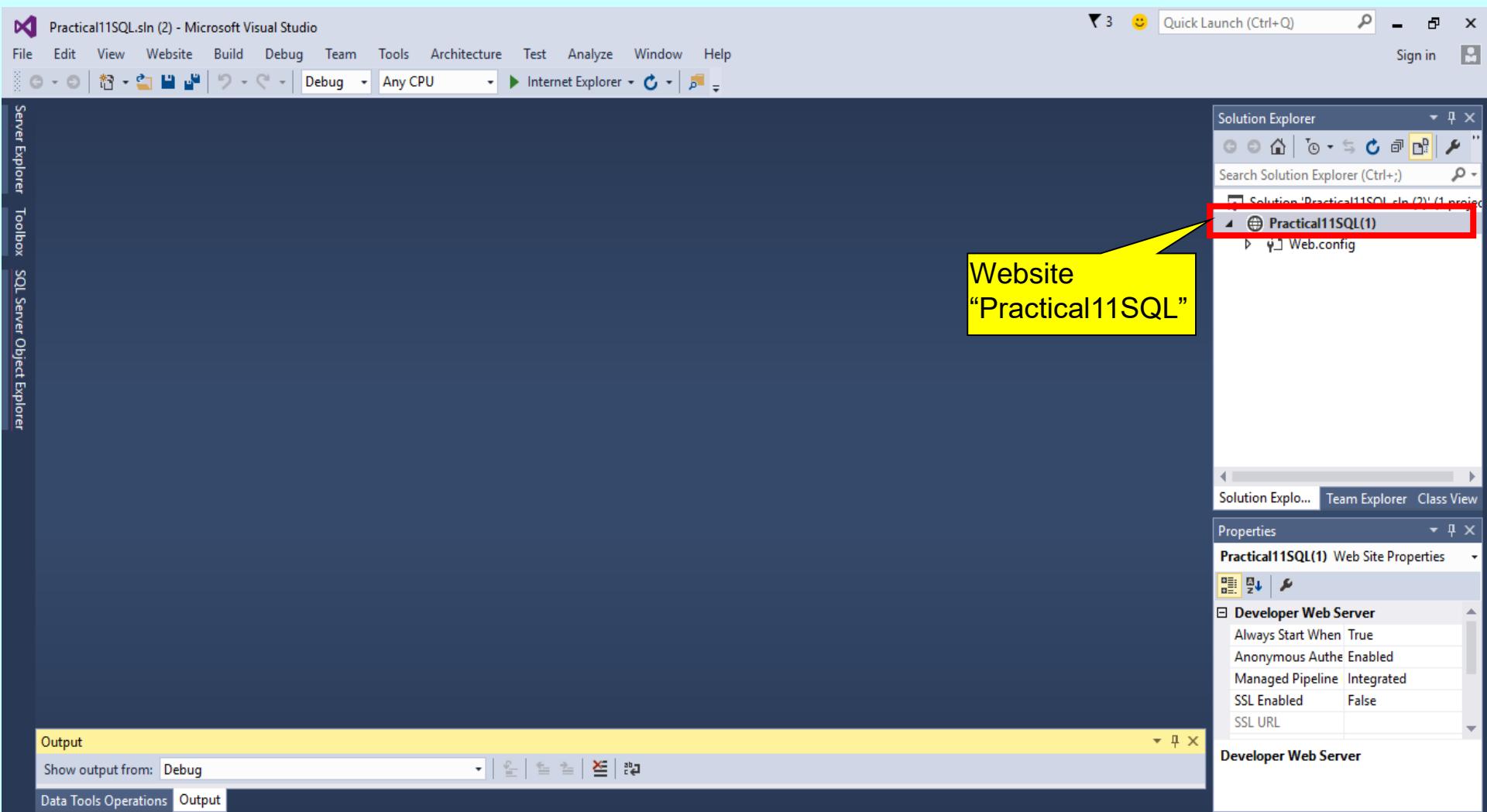


4) Extracted web forms



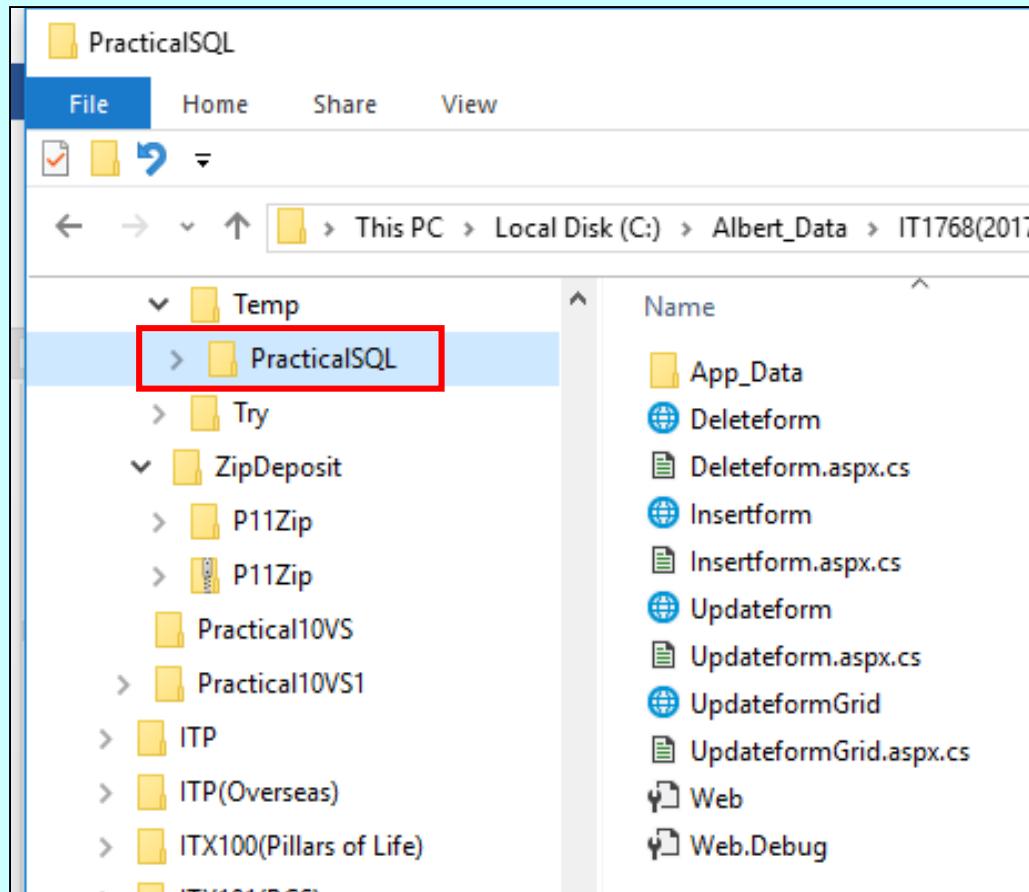
Import established Web forms and Database

Create a new website “Practical11SQL”



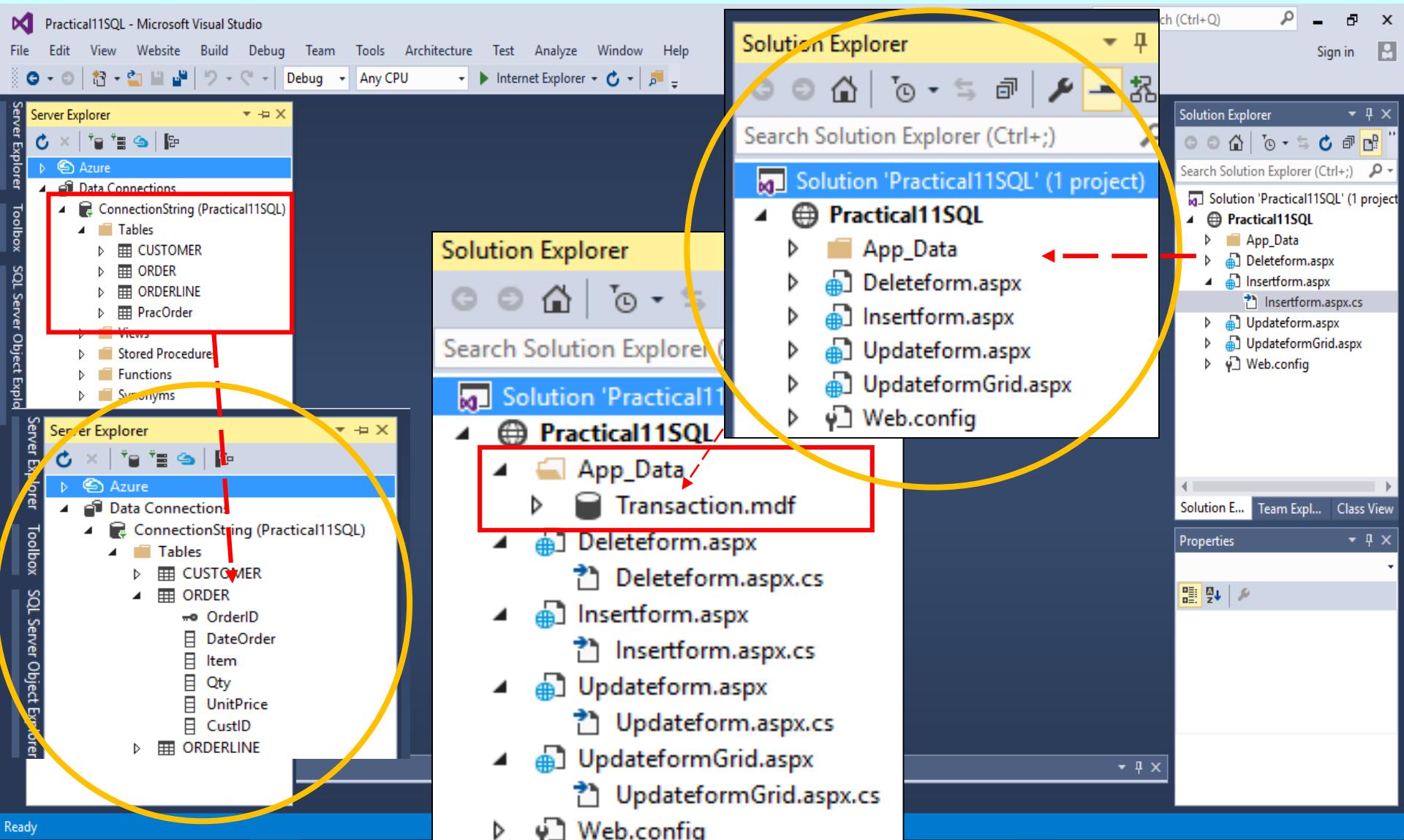
Import established Web forms and Database

In Window Explorer ...Move the entire unzip P11Zip folder under “Practical11SQL” website



Note:
A SQL server database
“Transact.mdf” has been
embedded under
App_Data folder.

Import established Web forms and Database



Relational Database in SQL Server

- 1) How to import **database** in SQL Server Express ?
- 2) Insertion, Update and Deletion of records through web forms
- 3) Use of Data Grid for content Management

Launching of established Insertform.aspx

Practical11SQL - Microsoft Visual Studio

File Edit View Website Build Debug Team Tools Architecture Test Analyze Window Help

Quick Launch (Ctrl+Q) Sign in

Server Explorer Toolbox SQL Server Object Explorer

Insertform.aspx

Source View of web Form

InsertForm.aspx

Insertform.aspx

Solution Explorer

Search Solution Explorer (Ctrl+;) Solution 'Practical11SQL' (1 project)

- Practical11SQL
 - App_Data
 - Deleteform.aspx
 - Insertform.aspx**
 - Insertform.aspx.cs
 - Updateform.aspx
 - UpdateformGrid.aspx
 - Web.config

Properties

Insertform.aspx Web File Properties

Misc

File Name Insertform.aspx
Full Path C:\Albert_Data\IT1768\Database Systems\Practical11SQL\Insertform.aspx

Design | Split **Source**

Output

Show output from: Data Tools Operations Output

Ln 1 Col 1 Ch 1 INS

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Insertform.aspx.cs" Inherits="Insert1" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-tran

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body bgcolor="#99ff99">
    <form id="form1" runat="server">
        <h2>Order Form</h2>
        <h3 style="font-family: Arial, Helvetica, sans-serif; font-weight: bold; color: #000080">Add New Order</h3>
        <table border="1" width="50%" cellpadding="5" cellspacing="0">
            <tr>
                <td align="right" class="style1"
                    style="font-size: large; font-weight: bold; font-family: Arial, Helvetica, sans-serif;
                    width: 40%; background-color: #FFFF66">
                    Existing Order ID</td>
                <td background-color: #FFFF66; class="style1">
                    <asp:DropDownList ID="ddlOrderID" runat="server" AutoPostBack="True"
                        OnSelectedIndexChanged="ddlOrderID_SelectedIndexChanged" DataValueField="OrderID" DataTextField="OrderName">
                </td>
            </tr>
            <tr>
                <td align="right" class="style1"
                    style="font-size: large; font-weight: bold; font-family: Arial, Helvetica, sans-serif;
                    width: 40%; background-color: #FFFF66">
                    Existing Order ID</td>
                <td background-color: #FFFF66; class="style1">
                    <asp:DropDownList ID="ddlOrderID" runat="server" AutoPostBack="True"
                        OnSelectedIndexChanged="ddlOrderID_SelectedIndexChanged" DataValueField="OrderID" DataTextField="OrderName">
                </td>
            </tr>
        </table>
    </form>
</body>
</html>
```

Insertform.aspx - Design View

Practical11SQL - Microsoft Visual Studio

File Edit View Website Build Debug Team Format Table Tools Architecture Test Analyze Window Help

Quick Launch (Ctrl+Q)

Sign in

Server Explorer

Toolbox

SQL Server Object Explorer

body

Order Form

Add New Order Records

| | |
|-------------------|---|
| Existing Order ID | Databound (1) |
| Order ID | <input type="text"/> |
| Date of Order | <input type="text"/> |
| Item | <input type="text"/> |
| Quantity | <input type="text"/> |
| Unitprice | <input type="text"/> |
| Customer ID | <input type="text"/> |
| | <input type="button" value="INSERT"/> (2) |

[lblMsg]

SqlDataSource - SqlDataSource1

Design Split Source <html> <body>

Output

Show output from:

Data Tools Operations Output

Ln 1 Col 1 Ch 1 INS

Insertform.aspx

Solution Explorer

Search Solution Explorer (Ctrl+.)

Solution 'Practical11SQL' (1 project)

- Practical11SQL
 - App_Data
 - Deleteform.aspx
 - Insertform.aspx
 - Insertform.aspx.cs
 - Updateform.aspx
 - UpdateformGrid.aspx
- Web.config

Properties

DOCUMENT

ASP.NET

Culture

Debug

EnableSessionSt

Language

MasterDnsFile

C#

ASP.NET

Configuration of SqlDataSource1

The screenshot shows the Microsoft Visual Studio interface for a project named "Practical11SQL". The current file is "Insertform.aspx". The page displays an "Order Form" with fields for "Existing Order ID", "Order ID", "Date of Order", "Item", "Quantity", "Unitprice", and "Customer ID", each with an associated input field. Below these fields is an "INSERT" button. At the bottom left is a label "lblMsg" and a "SqlDataSource - SqlDataSource1" control. The "SqlDataSource Tasks" context menu is open, with option 2 "Configure Data Source..." highlighted.

File Edit View Website Build Debug Team Format Table Tools Architecture

Insertform.aspx

Order Form

Add New Order Records

| | |
|-------------------|---|
| Existing Order ID | Databound (1) |
| Order ID | <input type="text"/> |
| Date of Order | <input type="text"/> |
| Item | <input type="text"/> |
| Quantity | <input type="text"/> |
| Unitprice | <input type="text"/> |
| Customer ID | <input type="text"/> |
| | <input type="button" value="INSERT"/> (2) |

Unitprice

Customer ID

INSERT (2)

asp:SqlDataSource#SqlDataSource1

SqlDataSource - SqlDataSource1

SqlDataSource Tasks

Configure Data Source... (2)

Refresh Schema

Design Split Source <html> <body> <form#form1>

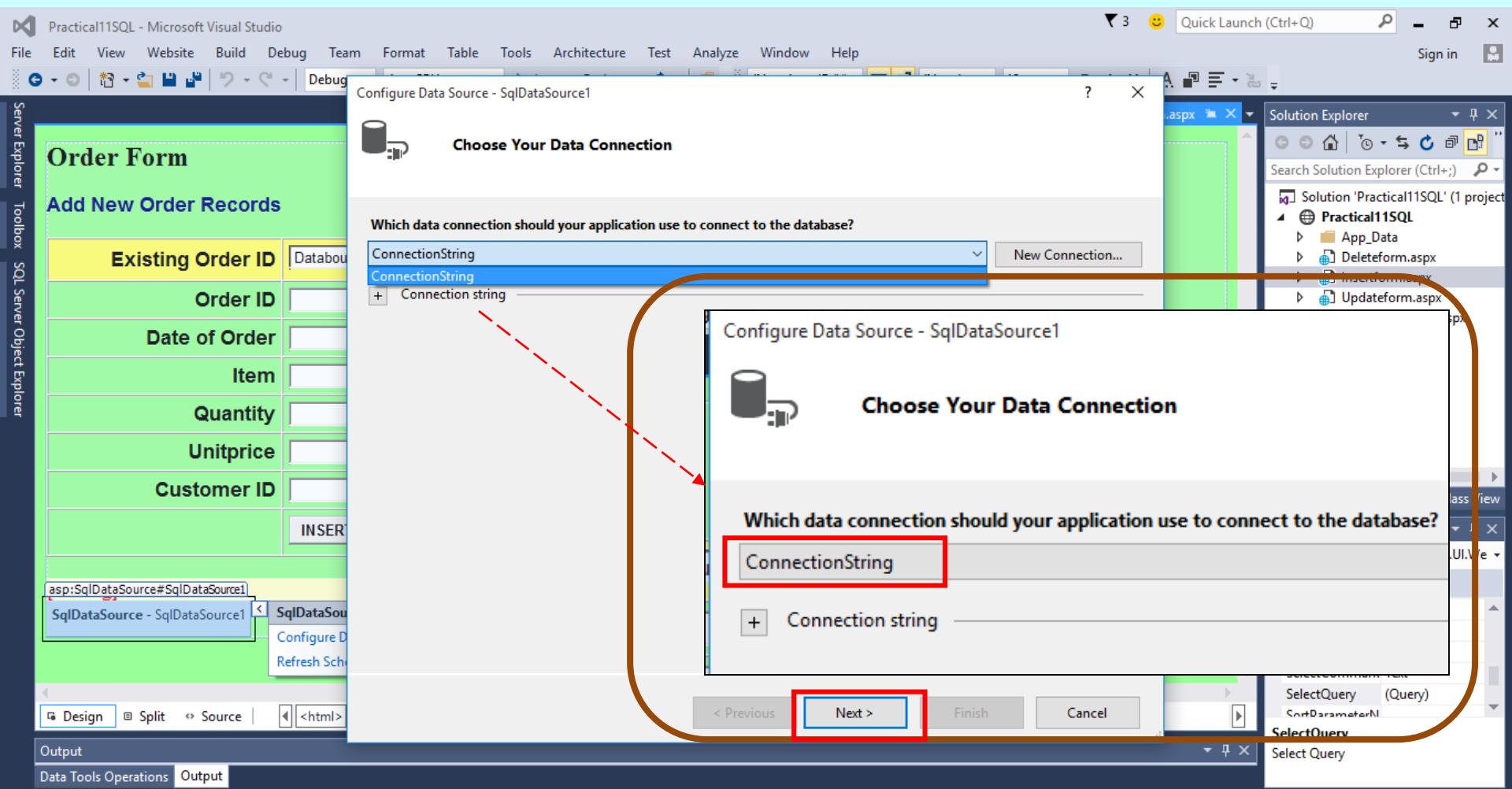
Output

1

2

IT1768 Database Systems

Configuration of SqlDataSource1



Configuration of SqlDataSource1

Practical11SQL - Microsoft Visual Studio

File Edit View Website Build Debug Team Format Table Tools Architecture Test Analyze Window Help

Configure Data Source - SqlDataSource1

Configure the Select Statement

How would you like to retrieve data from your database?

Specify a custom SQL statement or stored procedure

Specify columns from a table or view

Name: ORDER

Select table

Choose fields for display

Columns:

- *
- OrderID
- DateOrder
- Item
- Qty
- UnitPrice
- CustID

Return only unique rows

WHERE...

ORDER BY...

Advanced...

SELECT statement:

```
SELECT * FROM [ORDER]
```

< Previous Next > Finish Cancel

Order Form
Add New Order Records
Existing Order ID
Order ID
Date of Order
Item
Quantity
Unitprice
Customer ID
INSERT

asp:SqlDataSource#SqlDataSource1

SqlDataSource - SqlDataSource1

Configure D Refresh Sch

Design Split Source <html>

Configuration of SqlDataSource1

Practical11SQL - Microsoft Visual Studio

File Edit View Website Build Debug Team Format Table Tools Analyze Window Help

Configure Data Source - SqlDataSource1

Test Query

To preview the data returned by this data source, click Test Query. To complete this wizard, click Finish.

| OrderID | DateOrder | Item | Qty | UnitPrice | CustID |
|----------|------------|--------------------------|-----|------------|--------|
| ON-11-01 | 2012-01-23 | Press printer | 3 | 12000.0000 | CN-11 |
| ON-11-02 | 2012-01-26 | Paper rolls | 500 | 800.0000 | CN-11 |
| ON-12-35 | 2016-08-02 | Sheet roll | 20 | 400.0000 | CN-12 |
| ON-12-39 | 2012-07-12 | 3-in stainless steel rod | 50 | 250.0000 | CN-12 |
| ON-13-65 | 2012-03-22 | Pumps | 10 | 300.0000 | CN-13 |
| ON-13-66 | 2012-03-23 | Hose clips | 100 | 20.0000 | CN-13 |
| ON-14-88 | 2012-04-02 | AA Alkaline battery | 100 | 1.2000 | CN-13 |
| ON-14-89 | 2012-04-05 | Transformer | 15 | 850.0000 | CN-12 |
| ON-14-90 | 2013-07-23 | Propeller | 10 | 750.0000 | CN-12 |

Test Query

SELECT statement:

```
SELECT * FROM [ORDER]
```

Click **Test Query** to show all records

< Previous Next > Finish Cancel

Drag margin handles to resize margins. Press SHIFT or CTRL for more options.

Ln 1 Col 1 Ch 1 INS

3:41 PM 8/3/2017

Server Explorer Toolbox SQL Server Object Explorer

.aspx

Solution Explorer

Search Solution Explorer (Ctrl+.)

Solution 'Practical11SQL' (1 project)

- Practical11SQL
 - App_Data
 - Deleteform.aspx
 - Insertform.aspx
 - Updateform.aspx
 - UpdateformGrid.aspx
 - Web.config

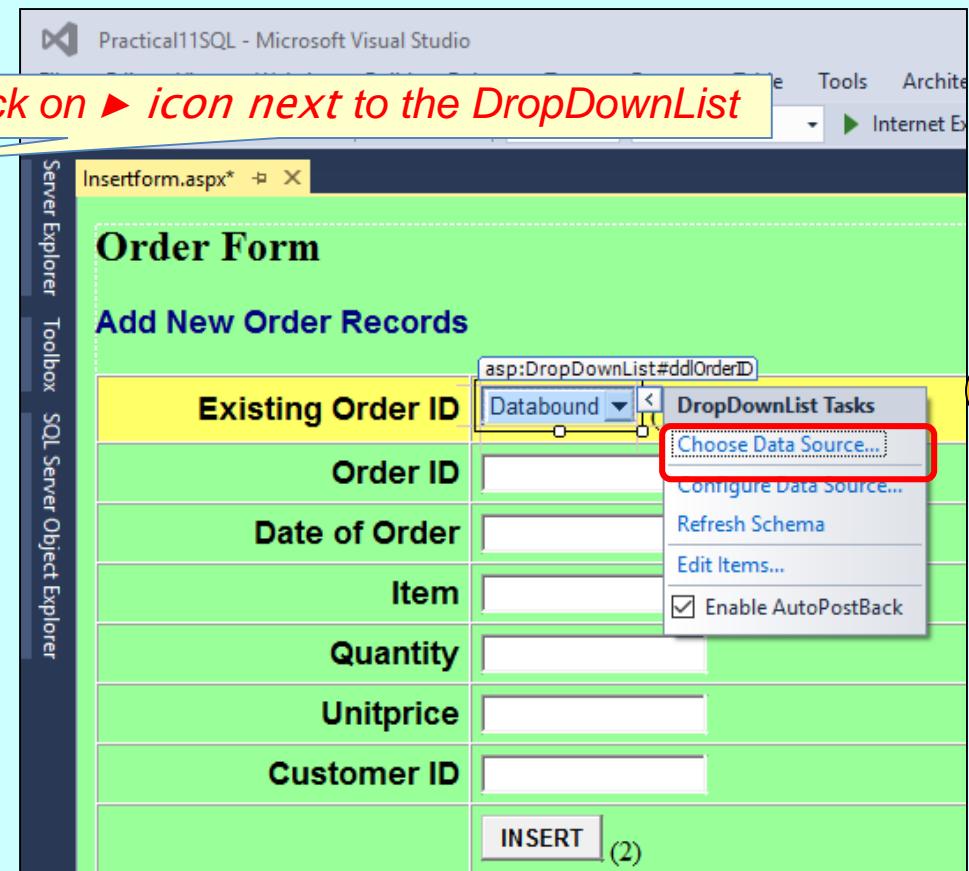
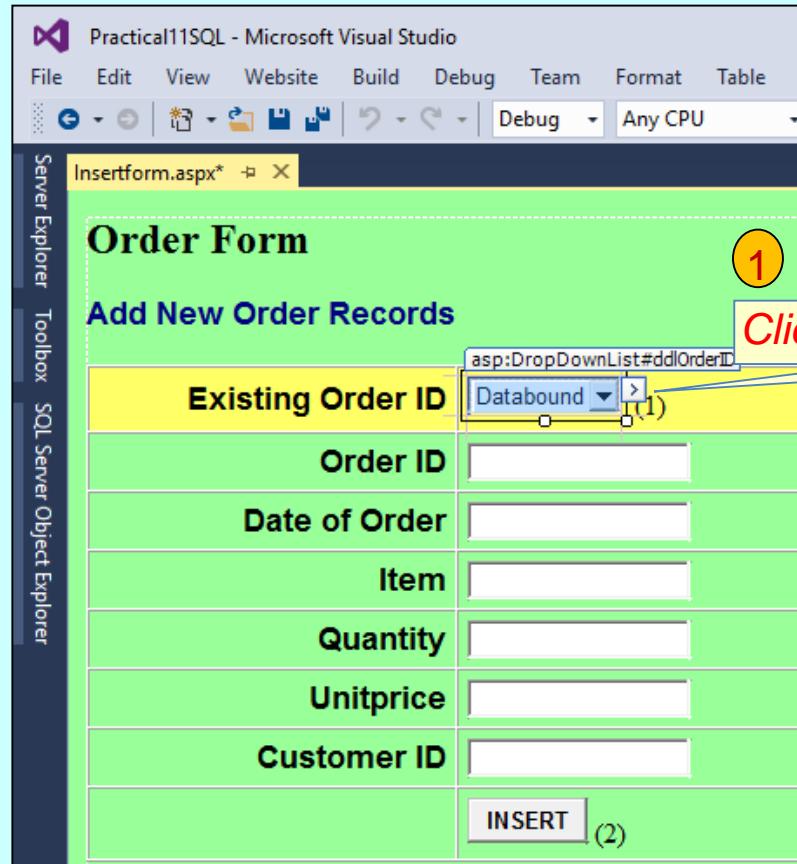
Properties

SqlDataSource1 System.Web.UI.WebControls.SqlDataSource

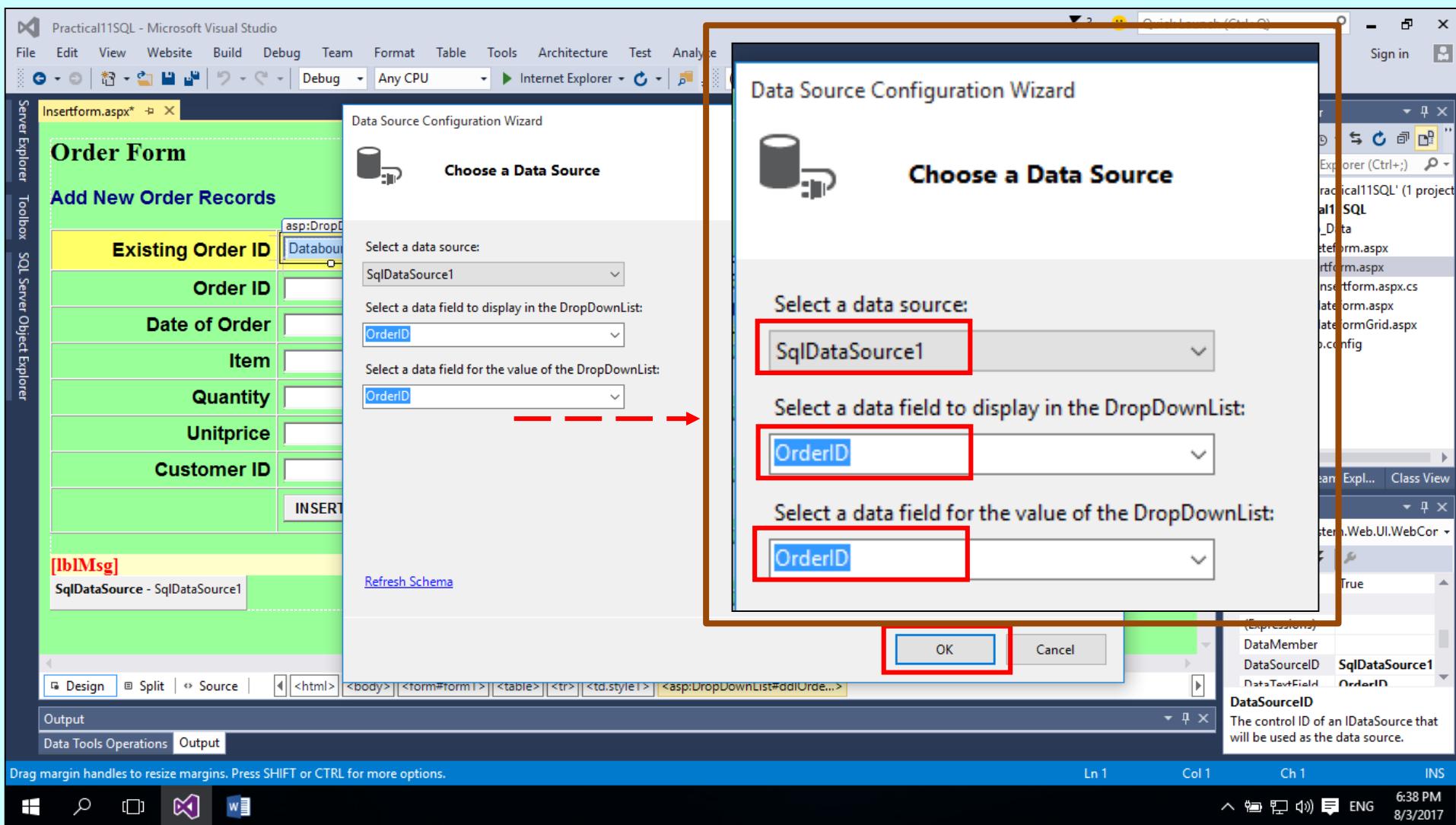
InsertQuery (Query) OldValuesParameterName {0} ProviderName SelectCommandText SelectQuery (Query) SelectParameterName {0} SelectQuery Select Query

Click **Finish** to end the configuration process

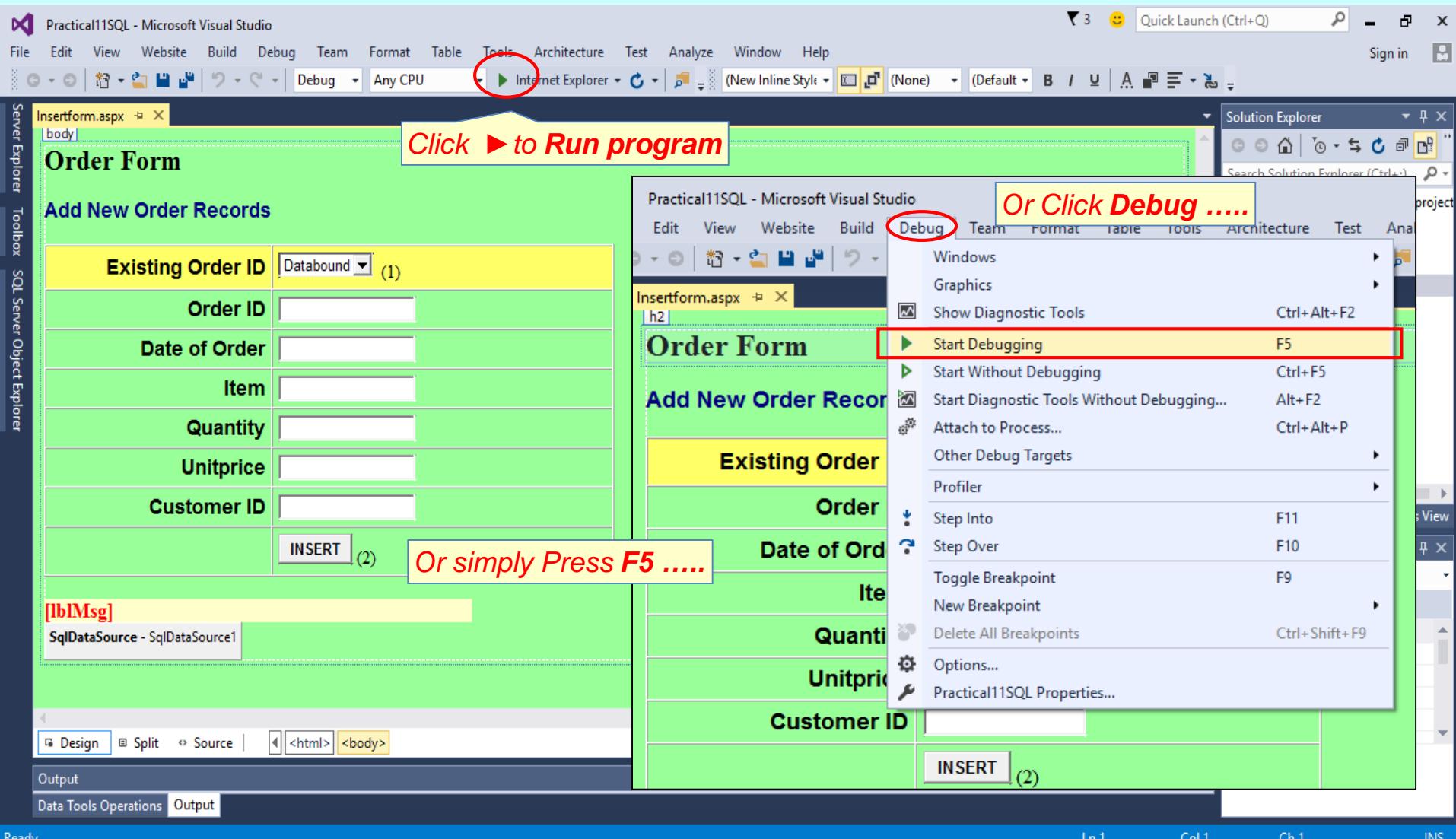
Bind the selected table object to a SqlDataSource1



Bind DropDownList to a SqlDataSource1



Run Insertform.aspx



Insert new data in Insertform.aspx

Order Form

Add New Order Records

| | |
|-------------------|--------------------------|
| Existing Order ID | ON-15-90 (1) |
| Order ID | ON-17-11 |
| Date of Order | 2017-03-09 New record |
| Item | 3D Printer |
| Quantity | 2 |
| Unitprice | 920.0000 |
| Customer ID | CN-11 x |
| | INSERT (2) |

Edit the data in the texboxes for a new record !

Order Form

Add New Order Records

| | |
|-------------------|-------------------|
| Existing Order ID | ON-15-90 (1) |
| Order ID | ON-17-11 |
| Date of Order | 2017-03-09 |
| Item | 3D Printer |
| Quantity | 2 |
| Unitprice | 920.0000 |
| Customer ID | CN-11 |
| | INSERT (2) |

One new order record has been added successfully!

New record added into the table

The screenshot shows the Microsoft Visual Studio interface with two main windows. On the left, the Server Explorer window displays a tree view of database objects under the ConnectionString (Practical11SQL) node, including CUSTOMER and ORDER tables. A context menu is open over the ORDER table, with 'Show Table Data' selected. On the right, the main workspace shows the 'dbo.ORDER [Data]' table in a grid format. A yellow callout points to the last row of the grid, which is highlighted with a red border and labeled 'New record'. The grid contains the following data:

| | OrderID | DateOrder | Item | Qty | UnitPrice | CustID |
|----|----------|------------|----------------------|------|------------|--------|
| 1 | ON-11-01 | 2012-01-23 | Press printer | 3 | 12000.0000 | CN-11 |
| 2 | ON-11-02 | 2012-01-26 | Paper rolls | 500 | 800.0000 | CN-11 |
| 3 | ON-12-35 | 2016-08-02 | Sheet roll | 20 | 400.0000 | CN-12 |
| 4 | ON-12-39 | 2012-07-12 | 3-in stainless st... | 50 | 250.0000 | CN-12 |
| 5 | ON-13-65 | 2012-03-22 | Pumps | 10 | 300.0000 | CN-13 |
| 6 | ON-13-66 | 2012-03-23 | Hose clips | 100 | 20.0000 | CN-13 |
| 7 | ON-14-88 | 2012-04-02 | AA Alkaline bat... | 100 | | CN-13 |
| 8 | ON-14-89 | 2012-04-05 | Transformer | 15 | | CN-12 |
| 9 | ON-14-90 | 2013-07-23 | Propeller | 10 | 750.0000 | CN-12 |
| 10 | ON-17-11 | 2017-03-09 | 3D Printer | 2 | 920.0000 | CN-11 |
| 11 | * | NULL | NULL | NULL | NULL | NULL |

Launching of established Updateform.aspx

Practical11SQL - Microsoft Visual Studio

File Edit View Website Build Debug Team Format Table Tools Architecture Test Analyze Window Help

Quick Launch (Ctrl+Q) Sign in

Updateform.aspx

Order Form

Update Existing Order Records

| | |
|--------------------------|---|
| Existing Order ID | <input type="text"/> Databound (1) |
| Order ID | <input type="text"/> [lblOrderID] |
| Date of Order | <input type="text"/> [lblNote1] |
| Item | <input type="text"/> [lblNote2] |
| Quantity | <input type="text"/> [lblNote3] |
| Unit price | <input type="text"/> [lblNote4] |
| Customer ID | <input type="text"/> [lblCustID] |
| | <input type="button" value="UPDATE"/> (2) |

[lblMsg]

SqlDataSource - SqlDataSource1

Design Split Source <html> <body>

Output Data Tools Operations Output

Ln 1 Col 1 Ch 1 INS

Solution Explorer

Search Solution Explorer (Ctrl+.)

Solution 'Practical11SQL' (1 project)

- Practical11SQL
 - App_Data
 - Deleteform.aspx
 - Insertform.aspx
 - Updateform.aspx
 - Updateform.aspx.cs
 - UpdateformGrid.aspx
 - Web.config

Properties DOCUMENT

ASP.NET

- Culture
- Debug
- EnableSessionSt
- Language C#
- MasterDanceFile

ASP.NET

Configuration of SqlDataSource1

The screenshot shows the Microsoft Visual Studio interface for a web application named "Practical11SQL". The current page is "Updateform.aspx". The left sidebar includes "Server Explorer", "Toolbox", "SQL Server Object Explorer", and "Solution Explorer". The main area displays an "Order Form" with fields for "Existing Order ID", "Order ID", "Date of Order", "Item", "Quantity", "Unit price", "Customer ID", and a message box labeled "[lblMsg]". Below the form is an "UPDATE" button. On the right, the "SqlDataSource - SqlDataSource1" is selected in the toolbox. A context menu titled "SqlDataSource Tasks" is open, with the "Configure Data Source..." option highlighted and circled in red. Numbered callouts indicate steps: "1" points to the "Configure Data Source..." button, and "2" points to the "SqlDataSource Tasks" menu.

Practical11SQL - Microsoft Visual Studio

File Edit View Website Build Debug Team Format Table

Updateform.aspx

Order Form

Update Existing Order Records

Existing Order ID: Databound (1)

Order ID: [lblOrderID]

Date of Order:

Item:

Quantity:

Unit price:

Customer ID: [lblCustID]

UPDATE (2)

[lblMsg]

SqlDataSource - SqlDataSource1 (1)

SqlDataSource - SqlDataSource1

SqlDataSource Tasks (2)

Configure Data Source...

Refresh Schema

Design Split Source

<html> <body> <form>

Configuration of SqlDataSource1

Configure Data Source - SqlDataSource1

 **Configure the Select Statement**

How would you like to retrieve data from your database?

Specify a custom SQL statement or stored procedure
 Specify columns from a table or view

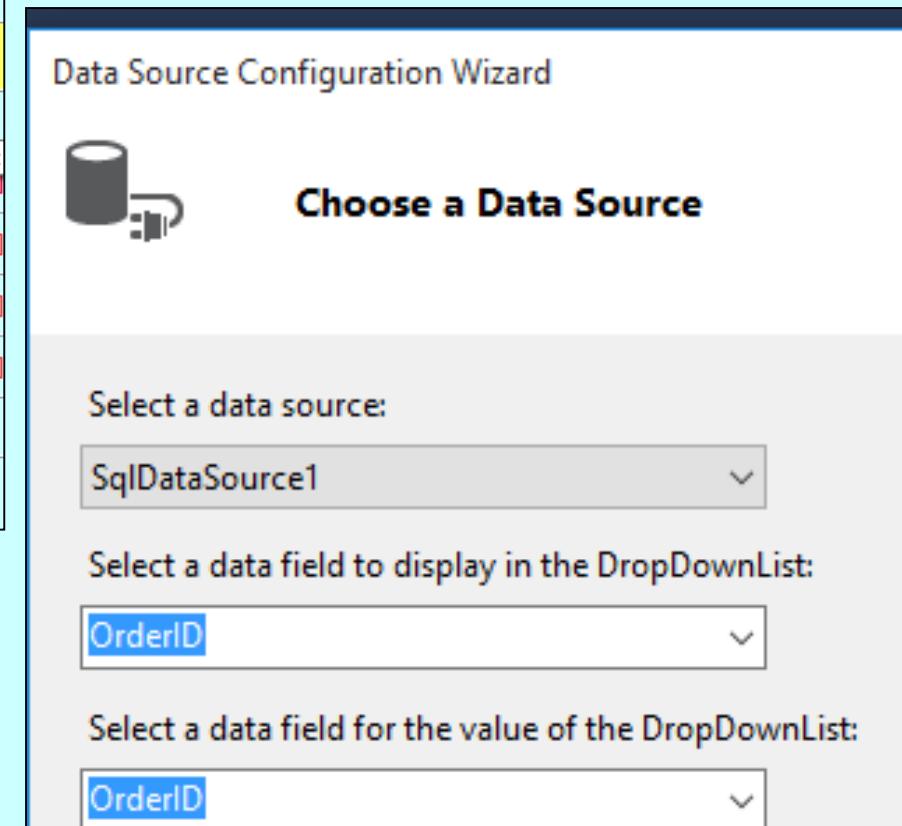
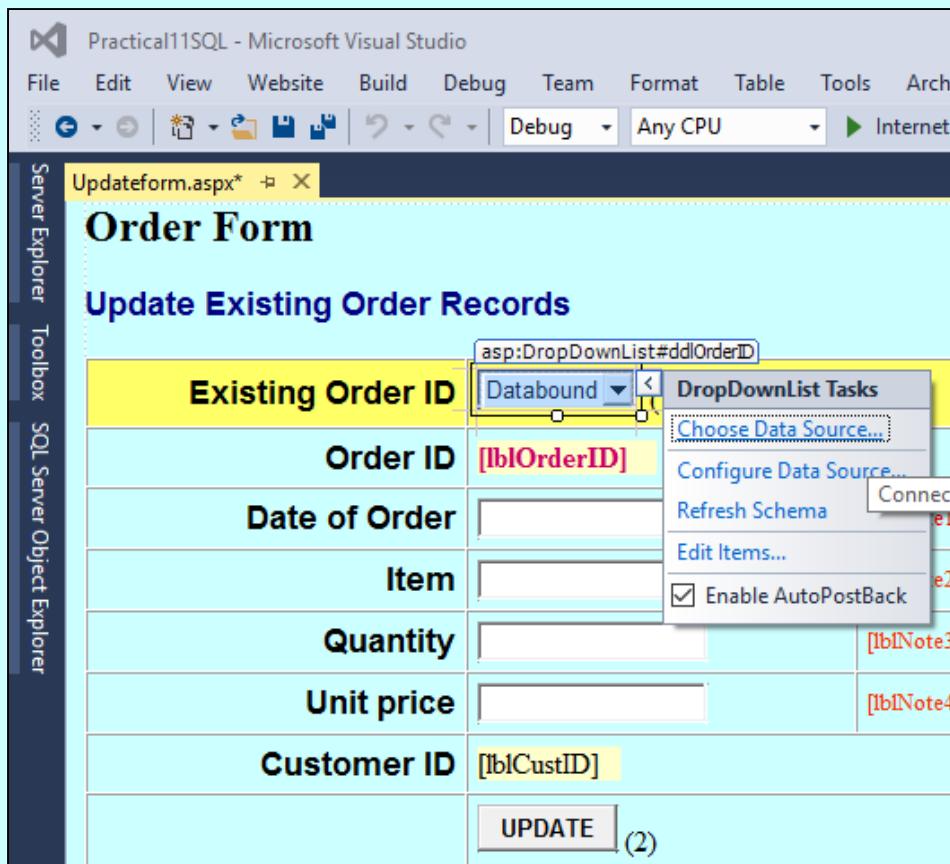
Name: ORDER

Columns:

| |
|---------------------------------------|
| <input checked="" type="checkbox"/> * |
| <input type="checkbox"/> OrderID |
| <input type="checkbox"/> DateOrder |
| <input type="checkbox"/> Item |
| <input type="checkbox"/> Qty |
| <input type="checkbox"/> UnitPrice |
| <input type="checkbox"/> CustID |

Select ORDER table

Bind DropDownList to a SqlDataSource1



Run Updateform.aspx

| Order Form | |
|-------------------------------|---|
| Update Existing Order Records | |
| Existing Order ID | <input type="text" value="ON-11-01"/> (1) |
| Order ID | <input type="text"/> |
| Date of Order | <input type="text"/> |
| Item | <input type="text"/> |
| Quantity | <input type="text"/> |
| Unit price | <input type="text"/> |
| Customer ID | <input type="text"/> |
| | <input type="button" value="UPDATE"/> (2) |

| Order Form | |
|-------------------------------|--|
| Update Existing Order Records | |
| Existing Order ID | <input type="text" value="ON-11-01"/> ON-11-02 ON-12-35 ON-12-39 ON-13-65 ON-13-66 ON-14-88 ON-14-89 ON-14-90 ON-17-11"/> |
| Order ID | <input type="text"/> |
| Date of Order | <input type="text"/> |
| Item | <input type="text"/> |
| Quantity | <input type="text"/> |
| Unit price | <input type="text"/> |
| Customer ID | <input type="text"/> |
| | <input type="button" value="UPDATE"/> (2) |

Update record data in Updateform.aspx

Order Form

Update Existing Order Records

| | |
|--------------------------|-------------------|
| Existing Order ID | ON-17-11 (1) |
| Order ID | ON-17-11 |
| Date of Order | 2017-03-09 * E |
| Item | 3D Printer * E |
| Quantity | 5 * E |
| Unit price | 920.0000 * E |
| Customer ID | CN-11 |
| | UPDATE (2) |

Order Form

Update Existing Order Records

| | |
|--------------------------|-------------------|
| Existing Order ID | ON-17-11 (1) |
| Order ID | ON-17-11 |
| Date of Order | 2017-03-09 |
| Item | 3D Printer |
| Quantity | 4 |
| Unit price | 999.0000 |
| Customer ID | CN-11 |
| | UPDATE (2) |

Edited fields

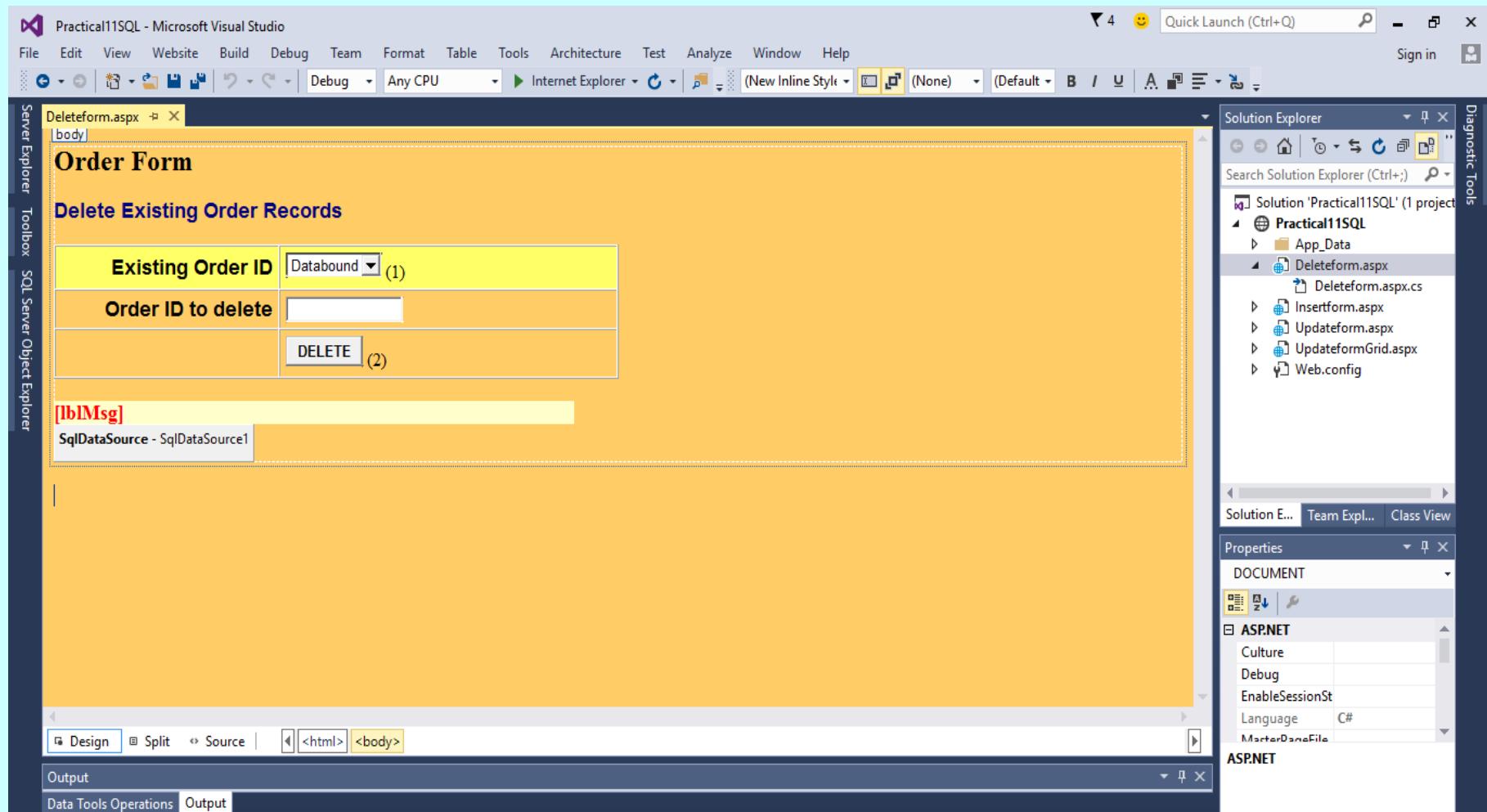
Updated record in the table

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. In the Server Explorer, the connection 'ConnectionString (Practical11SQL)' is selected, and the 'Tables' node under the 'CUSTOMER' schema is expanded, with the 'ORDER' table selected. A context menu is open over the 'ORDER' table, with the 'Show Table Data' option highlighted and enclosed in a red box. The main pane displays the 'ORDER [Data]' grid, which contains the following data:

| | OrderID | DateOrder | Item | Qty | UnitPrice | CustID |
|----|----------|------------|----------------------|------|------------|--------|
| 1 | ON-11-01 | 2012-01-23 | Press printer | 3 | 12000.0000 | CN-11 |
| 2 | ON-11-02 | 2012-01-26 | Paper rolls | 500 | 800.0000 | CN-11 |
| 3 | ON-12-35 | 2016-08-02 | Sheet roll | 20 | 400.0000 | CN-12 |
| 4 | ON-12-39 | 2012-07-12 | 3-in stainless st... | 50 | 250.0000 | CN-12 |
| 5 | ON-13-65 | 2012-03-22 | Pumps | 10 | 300.0000 | CN-13 |
| 6 | ON-13-66 | 2012-03-23 | Hose clips | 100 | 20.0000 | CN-13 |
| 7 | ON-14-88 | 2012-04-02 | AA Alkaline bat... | 100 | ... | CN-13 |
| 8 | ON-14-89 | 2012-04-05 | Transformer | 15 | ... | CN-12 |
| 9 | ON-14-90 | 2013-07-23 | Propeller | 10 | 750.0000 | CN-12 |
| 10 | ON-17-11 | 2017-03-09 | 3D Printer | 4 | 999.0000 | CN-11 |
| 11 | NULL | NULL | NULL | NULL | NULL | NULL |

A yellow callout bubble with the text 'Updated record' points to the row for OrderID ON-17-11. This row is also highlighted with a red border.

Launching of Deleteform.aspx



Configure SQLDataSource1 & Binding of DropDownList

Practical11SQL - Microsoft Visual Studio

File Edit View Website Build Debug Team Format Table Tools Architecture

Deleteform.aspx

Order Form

Delete Existing Order Records

| | |
|---------------------------|----------------------|
| Existing Order ID | Databound (1) |
| Order ID to delete | <input type="text"/> |
| | DELETE (2) |

[lblMsg]

SqlDataSource - SqlDataSource1

Server Explorer Toolbox SQL Server Object Explorer

Practical11SQL - Microsoft Visual Studio

File Edit View Website Build Debug Team Format Table Tools Architecture

Deleteform.aspx

Order Form

Delete Existing Order Records

| | |
|---------------------------|----------------------|
| Existing Order ID | Databound |
| Order ID to delete | <input type="text"/> |
| | DELETE (2) |

[lblMsg]

SqlDataSource - SqlDataSource1

Server Explorer Toolbox SQL Server Object Explorer

asp:DropDownList#ddlOrderID

DropDownList Tasks

- Choose Data Source...
- Configure Data Source...
- Refresh Schema
- Edit Items...
- Enable AutoPostBack

Select record and deletion

Order Form

Delete Existing Order Records

| | |
|---|---|
| Existing Order ID | ON-13-66 <input type="button" value="▼"/> (1) |
| Order ID to delete | ON-13-66 <input type="button" value="▼"/> |
| <input type="button" value="DELETE"/> (2) | |

Order Form

Delete Existing Order Records

| | |
|---|---|
| Existing Order ID | ON-14-89 <input type="button" value="▼"/> (1) |
| Order ID to delete | ON-14-89 <input type="button" value="▼"/> |
| <input type="button" value="DELETE"/> (2) | |

One record in the Order table has been deleted successfully !

Record deleted in the selected table

Before deletion

| | OrderID | DateOrder | Item | Qty | UnitPrice | CustID |
|---|----------|------------|---------------------|------|------------|--------|
| | ON-11-01 | 2012-01-23 | Press printer | 3 | 12000.0000 | CN-11 |
| | ON-11-02 | 2012-01-26 | Paper rolls | 500 | 800.0000 | CN-11 |
| | ON-12-35 | 2012-02-03 | 4ft Sheet coil | 20 | 400.0000 | CN-12 |
| | ON-13-65 | 2012-03-22 | Pumps | 10 | 300.0000 | CN-13 |
| | ON-13-66 | 2012-03-23 | Hose clips | 100 | 20.0000 | CN-13 |
| | ON-14-88 | 2012-04-02 | AA Alkaline battery | 100 | 1.2000 | CN-13 |
| ▶ | ON-14-89 | 2012-04-05 | Transformer | 15 | 850.0000 | CN-12 |
| * | NULL | NULL | NULL | NULL | NULL | NULL |

After deletion

| | OrderID | DateOrder | Item | Qty | UnitPrice | CustID |
|---|----------|------------|---------------------|------|------------|--------|
| | ON-11-01 | 2012-01-23 | Press printer | 3 | 12000.0000 | CN-11 |
| | ON-11-02 | 2012-01-26 | Paper rolls | 500 | 800.0000 | CN-11 |
| | ON-12-35 | 2012-02-03 | 4ft Sheet coil | 20 | 400.0000 | CN-12 |
| | ON-13-65 | 2012-03-22 | Pumps | 10 | 300.0000 | CN-13 |
| | ON-13-66 | 2012-03-23 | Hose clips | 100 | 20.0000 | CN-13 |
| ▶ | ON-14-88 | 2012-04-02 | AA Alkaline battery | 100 | 1.2000 | CN-13 |
| * | NULL | NULL | NULL | NULL | NULL | NULL |

Relational Database in SQL Server

- 1) How to import **database** in SQL Server Express ?
- 2) Insertion, Update and Deletion of records through web forms
- 3) Use of Data Grid for content Management

Launching of UpdateformGrid.aspx

Practical11SQL - Microsoft Visual Studio

File Edit View Website Build Debug Team Format Table Tools Architecture Test Analyze Window Help

Quick Launch (Ctrl+Q) Sign in

UpdateformGrid.aspx* (New Inline Style) (None) (Default)

Server Explorer Toolbox SQL Server Object Explorer

Solution Explorer

Search Solution Explorer (Ctrl+;) Diagnostic Tools

Solution 'Practical11SQL' (1 project)

- Practical11SQL
 - App_Data
 - Deleteform.aspx
 - Insertform.aspx
 - Updateform.aspx
 - UpdateformGrid.aspx
 - UpdateformGrid.aspx.cs
 - Web.config

Properties

DOCUMENT

ASP.NET

Culture

Debug

EnableSessionSt

Language C#

MasterDenoFile

ASPx.NET

Design Split Source <html> <body> <form#form1> <table> <tr> <td>

Output Data Tools Operations Output

Ln 1 Col 1 Ch 1 INS

Grid View

| | | OrderID | DateOrder | Item | Qty | UnitPrice | CustID |
|------|--------|---------|-----------|------|-----|-----------|--------|
| Edit | Select | abc | abc | abc | 0 | 0 | abc |
| Edit | Select | abc | abc | abc | 1 | 0.1 | abc |
| Edit | Select | abc | abc | abc | 2 | 0.2 | abc |
| Edit | Select | abc | abc | abc | 3 | 0.3 | abc |

1 2

Details View

| | |
|-----------|-----|
| OrderID | abc |
| DateOrder | abc |
| Item | abc |
| Qty | 0 |
| UnitPrice | 0 |
| CustID | abc |

SqlDataSource - SqlDataSource1

Ready

Configuration SQLDataSource1

The screenshot shows the Visual Studio IDE interface. On the left, the Server Explorer, Toolbox, and SQL Server Object Explorer are visible. The main area displays a grid view titled "UpdateformGrid.aspx*" containing four rows of data with columns "Edit", "Select", "OrderID", and "DateOrder". Below the grid is a "Details View" section with fields: OrderID, DateOrder, Item, Qty, UnitPrice, and CustID. At the bottom, a "SqlDataSource - SqlDataSource1" control is selected, revealing its "SqlDataSource Tasks" context menu with options: "Configure Data Source...", "Refresh Schema", and "Configure your data source".

Configure Data Source - SqlDataSource1

Configure the Select Statement

How would you like to retrieve data from your database?

Specify a custom SQL statement or stored procedure

Specify columns from a table or view

Name: ORDER

Columns:

Select ORDER table

*
 OrderID
 DateOrder
 Item
 Qty
 UnitPrice
 CustID

Advanced Configuration SQLDataSource1

The screenshot shows the Microsoft Visual Studio interface with the following components:

- Solution Explorer:** Shows a project named "Practical11SQL" with files like App_Data, Deleteform.aspx, Insertform.aspx, Updateform.aspx, UpdateformGrid.aspx, and Web.config.
- Properties Window:** Shows properties for "SqlDataSource1" including InsertQuery, OldValuesParam, ProviderName, SelectCommandText, SelectQuery, SortParameterName, and SelectQuery.
- Configure Data Source - SqlDataSource1 Dialog:** The "Configure the Select Statement" tab is selected. It asks "How would you like to retrieve data from your database?" with two options:
 - Specify a custom SQL statement or stored procedure
 - Specify columns from a table or viewThe "Name:" dropdown is set to "ORDER".
- Advanced SQL Generation Options Dialog:** This dialog is overlaid on the main configuration window. It has the title "Advanced SQL Generation Options".
 - A message states: "Additional INSERT, UPDATE, and DELETE statements can be generated to update the data source."
 - Generate INSERT, UPDATE, and DELETE statements:** A checkbox is checked, with a note: "Generates INSERT, UPDATE, and DELETE statements based on your SELECT statement. You must have all primary key fields selected for this option to be enabled." A yellow circle with the number "2" is drawn around this checkbox.
 - Use optimistic concurrency:** A checkbox is unchecked, with a note: "Modifies UPDATE and DELETE statements to detect whether the database has changed since the record was loaded into the DataSet. This helps prevent concurrency conflicts." A yellow circle with the number "3" is drawn around this checkbox.
 - Buttons at the bottom include "OK" (highlighted with a yellow circle and the number "3"), "Cancel", and "Advanced..." (highlighted with a yellow circle and the number "1").

Bind Grid View to SQLDataSource1

The screenshot shows the Microsoft Visual Studio interface with the following components:

- Toolbar:** File, Edit, View, Website, Build, Debug, Team, Format, Table, Tools, Architecture, Test, Analyze, Window, Help.
- Solution Explorer:** Shows the solution 'Practical11SQL' with project 'Practical11SQL' containing files 'App_Data' and 'Deleteform.aspx'.
- Server Explorer:** Available.
- Toolbox:** Available.
- Diagnostic Tools:** Available.
- Code Editor:** The file 'UpdateformGrid.aspx' is open, displaying two views: 'Grid View' and 'Details View'. The 'Grid View' section contains a table with columns: OrderID, DateOrder, Item, Qty, UnitPrice, and CustID. The 'Details View' section shows details for the selected row in the grid.
- GridView Tasks Panel:** A context menu for the 'CustID' column in the grid view. It includes the following options:
 - Auto Format...
 - Choose Data Source: **SqlDataSource1** (selected)
 - Configure Data Source...
 - Refresh Schema
 - Edit Columns...
 - Add New Column...
 - Move Column Left
 - Remove Column

Below these options are checkboxes for configuration settings:
 - Enable Paging
 - Enable Sorting
 - Enable Editing
 - Enable Deleting
 - Enable Selection

At the bottom of the panel is the 'Edit Templates' link.

Bind Details View to SqlDataSource1

The screenshot shows the Microsoft Visual Studio interface with the 'UpdateformGrid.aspx' page open. In the center, there is a 'Grid View' containing several rows of data. Below it is a 'Details View' showing a single row of data with fields: OrderID, DateOrder, Item, Qty, UnitPrice, and CustID. To the right of the details view, a context menu titled 'DetailsView Tasks' is displayed, with 'Choose Data Source:' set to 'SqlDataSource1'. A red circle highlights this selection. A red box also highlights the 'SqlDataSource1' control in the bottom-left corner of the design view. The Solution Explorer on the right shows the project structure with files like 'Deleteform.aspx', 'Insertform.aspx', 'Updateform.aspx', and 'UpdateformGrid.aspx'. The status bar at the bottom indicates 'Design' mode.

Practical11SQL - Microsoft Visual Studio

File Edit View Website Build Debug Team Format Table Tools Architecture Test Analyze Window Help

UpdateformGrid.aspx

Grid View

| | OrderID | DateOrder | Item | Qty | UnitPrice | CustID |
|------|---------|-----------|------|-----|-----------|--------|
| Edit | Select | abc | abc | abc | 0 | 0 |
| Edit | Select | abc | abc | abc | 1 | 0.1 |
| Edit | Select | abc | abc | abc | 2 | 0.2 |
| Edit | Select | abc | abc | abc | 3 | 0.3 |

asp:DetailsView#DetailsView1

Details View

| | |
|-----------|-----|
| OrderID | abc |
| DateOrder | abc |
| Item | abc |
| Qty | 0 |
| UnitPrice | 0 |
| CustID | abc |

Sqldatasource - Sqldatasource1

Design Split Source <html> <body> <form#form1> <table> <tr> <td> <asp:DetailsView#DetailsV...>

Output

DetailsView Tasks

Choose Data Source: Sqldatasource1

Auto Format...

Configure Data Source...

Refresh Schema

Edit Fields...

Add New Field...

Enable Paging

Enable Inserting

Enable Editing

Enable Deleting

Edit Templates

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Run UpdateformGrid.aspx

The screenshot shows a web browser window with the URL <http://localhost:2058/UpdateformGrid.aspx>. The browser interface includes standard buttons for back, forward, search, and refresh, along with a tab labeled "localhost". The menu bar at the top has options: File, Edit, View, Favorites, Tools, and Help.

Order Form

Use of Data Grid to Manipulate data in Order table

Grid View

| | OrderID | DateOrder | Item | Qty | UnitPrice | CustID | |
|----------------------|------------------------|-----------|------------|--------------------------|-----------|------------|-------|
| Edit | Select | ON-11-01 | 2012-01-23 | Press printer | 3 | 12000.0000 | CN-11 |
| Edit | Select | ON-11-02 | 2012-01-26 | Paper rolls | 500 | 800.0000 | CN-11 |
| Edit | Select | ON-12-35 | 2016-08-02 | Sheet roll | 20 | 400.0000 | CN-12 |
| Edit | Select | ON-12-39 | 2012-07-12 | 3-in stainless steel rod | 50 | 250.0000 | CN-12 |
| 1 2 3 | | | | | | | |

Details View

| | |
|-----------|---------------|
| OrderID | ON-11-01 |
| DateOrder | 2012-01-23 |
| Item | Press printer |
| Qty | 3 |
| UnitPrice | 12000.0000 |
| CustID | CN-11 |

Select Record for manipulation

Order Form

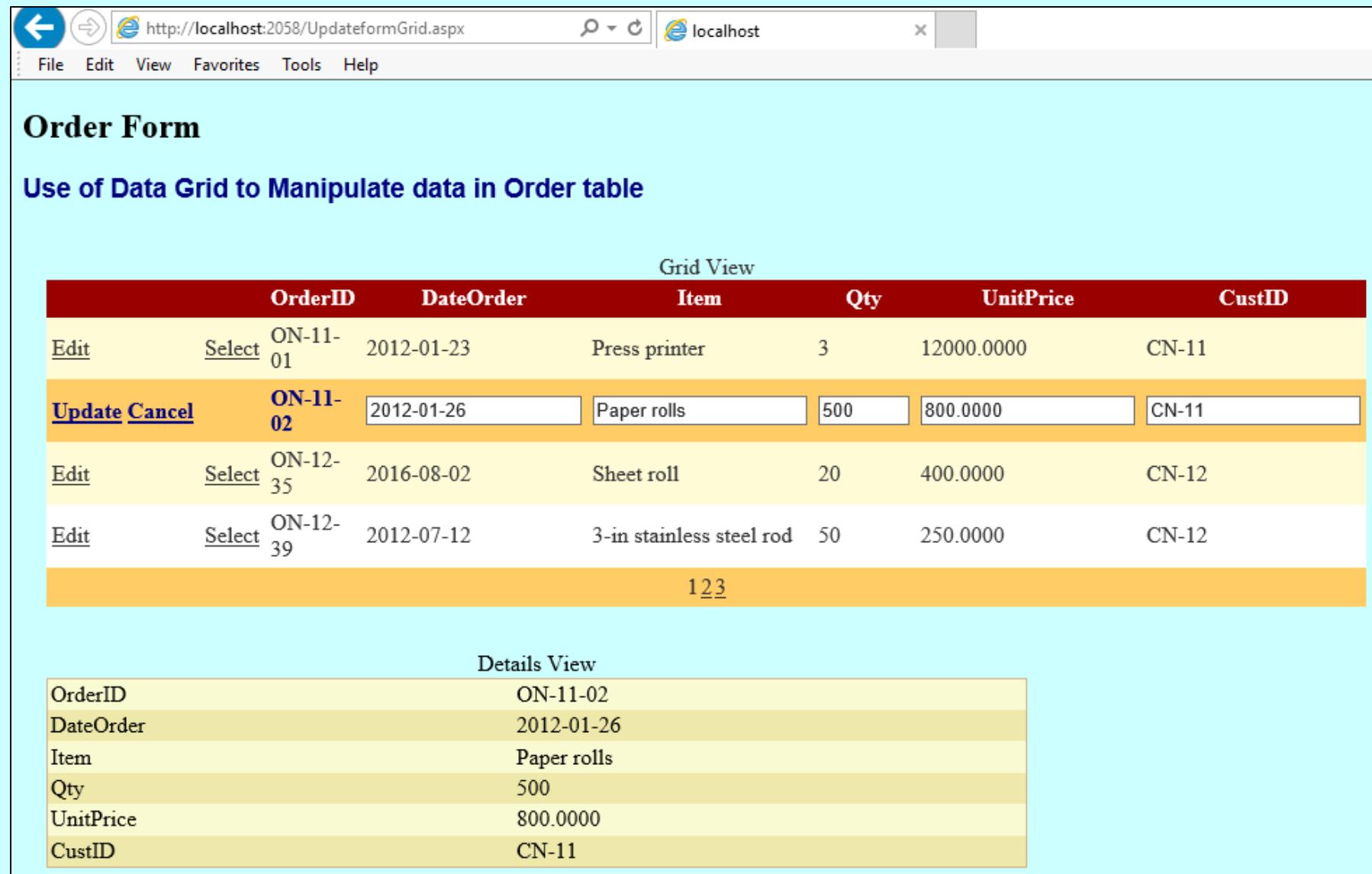
Use of Data Grid to Manipulate data in Order table

| Grid View | | | | | | | | |
|----------------------|------------------------|------------------|-------------------|--------------------------|------------------|-----------------|--------------|--|
| | OrderID | DateOrder | Item | Qty | UnitPrice | CustID | | |
| Edit | Select | ON-11-01 | 2012-01-23 | Press printer | 3 | 12000.0000 | CN-11 | |
| Edit | Select | ON-11-02 | 2012-01-26 | Paper rolls | 500 | 800.0000 | CN-11 | |
| Edit | Select | ON-12-35 | 2016-08-02 | Sheet roll | 20 | 400.0000 | CN-12 | |
| Edit | Select | ON-12-39 | 2012-07-12 | 3-in stainless steel rod | 50 | 250.0000 | CN-12 | |
| <u>123</u> | | | | | | | | |

Details View

| | |
|-----------|-------------|
| OrderID | ON-11-02 |
| DateOrder | 2012-01-26 |
| Item | Paper rolls |
| Qty | 500 |
| UnitPrice | 800.0000 |
| CustID | CN-11 |

Update Record in UpdateformGrid.aspx

A screenshot of a web browser window titled "localhost". The address bar shows "http://localhost:2058/UpdateformGrid.aspx". The page contains an "Order Form" section with a heading "Use of Data Grid to Manipulate data in Order table". Below this is a "Grid View" table and a "Details View" table.

Grid View

| | OrderID | DateOrder | Item | Qty | UnitPrice | CustID |
|------------------------|---------------------------------|------------|--------------------------|-----|------------|--------|
| Edit | Select ON-11-01 | 2012-01-23 | Press printer | 3 | 12000.0000 | CN-11 |
| Update | Cancel ON-11-02 | 2012-01-26 | Paper rolls | 500 | 800.0000 | CN-11 |
| Edit | Select ON-12-35 | 2016-08-02 | Sheet roll | 20 | 400.0000 | CN-12 |
| Edit | Select ON-12-39 | 2012-07-12 | 3-in stainless steel rod | 50 | 250.0000 | CN-12 |
| 1 2 3 | | | | | | |

Details View

| | |
|-----------|-------------|
| OrderID | ON-11-02 |
| DateOrder | 2012-01-26 |
| Item | Paper rolls |
| Qty | 500 |
| UnitPrice | 800.0000 |
| CustID | CN-11 |

End of Topic