

Hands on Lab: Custom Table: Create and Display

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Hands on Lab: Custom Table: Create and Display

Lab overview

System Requirements:

• Kentico CMS 6(SP1) with the Sample Corporate Site

Intended Lab Audience:

- CMS Designers
- CMS Developers

Lab introduction

Kentico CMS provides custom tables as a way to store and manage custom data. Technically, they are SQL tables and coupled stored procedures. Once a custom table is created and contains data, the next step is to provide a display for site visitors. In this lab we will add a custom table and then use the Basic Repeater web part to display it on a page. We will also look at how to use the Kentico CMS API to add and edit an existing item. In completing this set of labs you will perform the following tasks:

- Create a custom table
- Explore the Data Source web part
- Explore the Basic Repeater web part
- Edit a transformation for better visual display
- Add a new item to the custom table using the Kentico CMS API
- Edit an existing item using the Kentico CMS API

Lab: Custom Table: Create and Display

Lab 1: Creating a custom table

1. As Administrator log into CMS Site Manager, select the Development tab, then select Custom tables, and click New custom table as shown in the following screenshot.

Kentico Site Manager Sites	Administration	Settings Developme	nt Tools Dashboard	Licenses Support	
 Development Countries 	Custo	m tables			
🧳 CSS stylesheets	New custon	n table			
Cultures Custom settings	- Actions	Display name 🔺	Code name	Table name	
Custom tables	∕ ×-	Sample table	customtable.SampleTable	customtable_SampleTable	
Form controls					

2. In Step 1- General update the following fields and then click Next.

Field	Value
Custom table display name	Customer Contacts
Custom table code name (custom table)	custom

3. In Step 2 – Data type click Next as shown in the following screenshot.

Step 2 Data type Please supply	r name of the new database table and included fields.	
Database table name: Primary key name:	customtable_custom	
Include ItemCreatedBy field: Include ItemCreatedWhen field: Include ItemModifiedBy field: Include ItemModifiedWhen field:	 V	
Include ItemOrder field:	V	
		Next >

4. In Step 3 – Fields click the New attribute (+) button as shown in the following screenshot.

	Fields Please define	e custom fields of the custon	n table and their appearance in the editing form.		
ItemID* ItemCreatedBy ItemCreatedWhen ItemModifiedBy ItemModifiedBy ItemOrder ItemGUID*		Save field Database Column name: Attribute type: Attribute size: Allow empty value: Default value: V Display attribute in the Field appearance	ItemID Integer number	V	E
Quick links: Database Field appearance Validation CSS styles		Field caption: Form control type: Form control: Field description:	(all)		Next >

5. In the New attribute (+) dialog update the following fields and then click Save field.

Section	Field	Value
Database	Attribute name	Name
Database	Attribute size	100
Field appearance	Field caption	Name
Field appearance	Form control	Textbox

6. Select the New attribute (+) button, update the following fields and then click Save field.

Section	Field	Value
Database	Attribute name	Title
Database	Attribute size	100
Field appearance	Field caption	Title
Field appearance	Form control	Textbox

7. Select the New attribute (+) button, update the following fields, and then click Save field.

Section	Field	Value
Database	Attribute name	Email
Database	Attribute size	100
Field appearance	Field caption	Email

Field appearance	Form type	E-mail

8. In Step 2 – Fields validate that you see the new fields and then click the Next button as shown in the following screenshot.

Step 3	Fields Please define	e custom fields of the custon	n table and their appearance in the editing form.		
ItemID* Name* Title* Email* ItemCreatedBy ItemCreatedWhen ItemModifiedBy ItemModifiedWhen ItemOder ItemGUID*	↑ ↓ 4 + ×	Save field The changes were saved. Database Column name: Attribute type: Attribute size: Allow empty value: Default value:	Email Text 100	×.	E
Quick links: Database Field appearance Validation CSS styles		Display attribute in the Field appearance Field caption: Form control type: Form control: Field description:	e editing form Email Input E-mail	© • • • •	
					Next >

9. In Step 4 – Sites click the Next button as shown in the following screenshot.

Step	4	Sites Please s	elect sites where this	custom table ca	n be used:		
	Site name						
	<u>Corporate</u>						
Rer	nove selec	ted	Add sites	~			
							Next >

10. In Step 5 – Search options click the Next button as shown in the following screenshot.

Step 5	Search o Please set	p tions search fields foi	r Smart search	module.	
Title field: ItemID Content field: (none) Image field: (none) Date field: (none) Set automatically				v v	
				Custom second many	
Field name	Content	Searchable	Tokenized	Custom search name	
Field name ItemID	Content	Searchable	lokenized	Custom search name	
ItemID		V			
ItemID Name					

11. In Step 6 – The wizard has finished click the Finish button as shown in the following screenshot.

Step 6	The wizard has finished		
 The new custom The sites were set The default queri The default ASC: The default perm 	elected where this custom table can be used.		
		[Finish

12. In the **Custom table** properties screen click the **Custom tables** menu item as shown in the following screenshot.

Custom table pr	operties		
Custom tables Custome	er Contacts		
General Fields Form	Transformations Queries Sites A	lternative forms Search fields Data Versions	
Custom table display name:	Customer Contacts		
Custom table code name:	customtable	. custom	
	namespace	custom table	

13. In the **Custom tables** screen validate that the **Customer Contacts** custom table is displayed as shown in the following screenshot.

Custom tables						
A New custom table						
* Actions	Display name 🔺	Code name	Table name			
1 🗙 🔻	Customer Contacts	customtable.custom	customtable_custom			
1 🗙 🔻	Sample table	customtable.SampleTable	customtable_SampleTable			

Lab 2: Adding custom table data

1. As Administrator log into CMS Desk, select the Tools tab, then select the Custom tables button as shown in the following screenshot.

*	Kentic CMS Desk	o c	Content	My desk	Tools	Adn	ninistration	E-com	merce	On-line ma
	-	🥪 Polls	Cu	istom tables			🚨 Forum	s 📋	Messag	je boards
Forms		Maging Staging	G Fil	e import	В	logs	Sroup	s 🥃	Abuse	report
		Content					Com	munity	1	

2. In the Custom tables screen select the Edit (Pencil) icon for Customer Contacts as shown in the following screenshot.

Custom tables				
- Actions	Display name 🔺			
	Customer Contacts			
P	Sample table			

4. In the Custom table properties screen select the **New item** button as shown in the following screenshot.

Custom	table properties
Custom tables	Customer Contacts
😱 <u>New item</u>	Select displayed fields

No data found.

3. In the New item screen update the following fields and then select Ok.

Field	Value
Name	Joe Brown
Title	President
Email	joe@company.com

4. Click the Create another button, update the following fields, and then click Ok.

Field	Value
Name	Ted Thomas
Title	Marketing VP
Email	ted@company.com

5. On the Edit item screen click the **Data** link as shown in the following screenshot.

📑 Ed	lit item	
> <u>Data</u> >	Edit item	
Creat	e another	
The chan	nges were saved.	
	Ted Thomas	
Title:	Marketing VP	

Email: ted@company.com

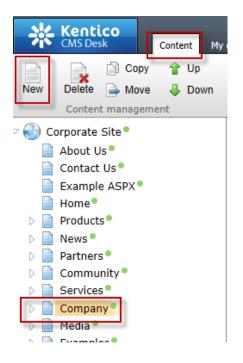


6. In the Custom table properties screen validate that the two items just entered are visible as shown in the following screenshot.

Custom tables > C	ustomer Co	ntacts				
I New item Select displayed fields						
- Actions	ItemID	Name	Title	Email	Created by	Created when
 Actions 	ItemID 1	Name Joe Brown	Title President	Email joe@company.com	Created by Global Administrator (administrator)	Created when 6/18/2012 10:18:55 A

Lab 3: Creating the display page

1. In CMS Desk select the Content tab, in the Content tree select Company and then click the New (Paper) icon, as shown in the following screenshot.



2. In the New document screen click the Page (menu item) as shown in the following screenshot.



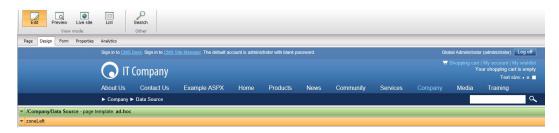
Please select new document type:

Document type name :	LIKE
	Show
Page (menu ite	<u>m)</u>
Article	

3. In the New Page (menu item) screen in the Page name enter Data Source, click Create a blank page with layout, in the Layout name enter Simple, then click the Search button, select the Simple page template, and finally click the Save button as shown in the following screenshot.

Save and create another Spell c	<u>heck</u>
Page name: Data Source	
\bigcirc Use existing page template \bigcirc Use parent page template	mplate 💿 Create a blank page with layout 🔘 Create a blank page
Layout name: Simple	Search
Simple	

4. Validate that you see the new Data Source page as shown in the following screenshot.



Lab 4: Displaying custom table data

1. In the zoneLeft web part zone, click the Add web part icon (+) as shown in the following screenshot.

Sign in to CMS [Sign in to CMS Desk. Sign in to CMS Side Manager. The default account is administrator with blank password. Global Administrator (administrator) Log off							Log off			
	Company							Ξ.		My account My our shopping cart Text size	
About Us	Contact Us	Example ASPX	Home	Products	News	Community	Services		Media	Training	
Company	Data Source										٩
✓ /Company/Data	Source - page temp	late: ad-hoc									
▼ zoneLeft											4

2. In the Select web part screen select Data sources, then select the Custom table data source web part, and then click OK as shown in the following screenshot.



3. In the Web part properties (Custom table data source) screen select the Data filter tab, in the Custom table name field select the Customer Contacts (customtable.custom) and click Ok as shown in the following screenshot.

General	roperties (Custom table d	ata source)	Occumentation
V	Data filter		*
Default Data filter	Custom table name*:	Customer Contacts (customtable.custom)	
Selection options	ORDER BY condition:	>	
System settings	Select Top N items:	•	
	WHERE condition:	•	
"0			

What is a data sources web part?

Data source web parts are used to connect and retrieve data from back end data sources like custom tables. They retrieve data and pass them to display web parts. This separation is designed to provide page based flexibility in data retrieval and display. Data sources provide reusable sources of data. They reduce page resources as data is retrieved just once and then can be used by different web parts on the same template to display content.

4. In the zoneleft web part zone select the Add web part icon (+) as shown in the following screenshot.

Sign in to CMS [Sign in to CMS Deals. Sign in to CMS Site Manager. The default account is administrator with blank password. Global Administrator (administrator) Log off										
() IT	Company									My account My our shopping cart is Text size:	empty
About Us	Contact Us	Example ASPX	Home	Products	News	Community	Services		Media	Training	
Company	Data Source										٩
✓ /Company/Data	Source - page templ	late: ad-hoc									
▼ zoneLeft											4
▼ 📑 CustomTable	DataSource 🛞										

5. In the Select web part screen select the Listings and viewers node, click the Basic repeater web part and click Ok as shown in the following screenshot.

*	Select we							
Þ	Common Common	inity services	^	Web part name:		Sear	ch 🕢 Search in description	
	G Custon	t rating I tables			\$	1		*
Þ	 Data se Docum E-come 	ent library				js		=
V	~	& booking	E	Basic datalist	Basic repeater	Basic repeater with effect	Basic universal viewer	
Þ	 Forms Forums 	1						
Þ	-	it search I		7				
	🏐 Intrane	services t portal		1 2				Ŧ
Þ	-	and viewers		Basic repeater				
Þ	 Localiz Maps Media 	ation			oart renders specified obje ith a data source web par		K transformations. This web par	rt
	Media Media	ibrary						
							OK Cancel	



The listings and viewers node contains web parts that can be used to provide display for the data source web parts.

6. In the Web part properties (Basic repeater) select the Content tab, and in the Data source name field enter CustomTableDataSource as shown in the following screenshot.





The Data source name field is the connection between this web part and the data source web part we added in Step 2 and must be an exact match.

7. In the Web part properties (Basic repeater) screen select the Transformation tab, and in the Transformation name field click the Select button as shown in the following screenshot.

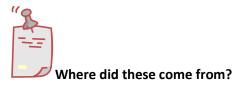
术 Web part p	roperties (Basic repeater)				👩 <u>Docu</u>	imentatior
General						
\lor	Transformations					ŕ
Default	Transformation name:	•	Select	Edit	New	
Visibility Content	A 14		C-last	5-14	News	
Transformations	Alternating transformation name:	•	Select	Edit	New	
No data behavior	Item separator transformation name:	•	Select	Edit	New	
"2						

What is a transformation?

When data is passed from the data source web part to the Basic repeater a set of formatting code (transformation) is applied to define the output that is displayed.

In the Select transformation dialog in the Class type drop down select Custom table, in the Custom table drop down select Customer Contacts (customtable.custom), then click the customtable.custom Default transformation as shown in the following screenshot.

Select transformation	
Class type: Custom table Custom table: Customer Contacts (customtable.custom)	
Transformation name or its part.	Search
Transformation name	
customtable.custom.Default	
customtable.custom.Preview	
	Items per page: 10 💌

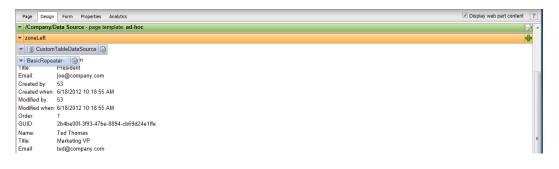


When we created the custom table the system automatically creates a Default and Preview transformation

9. In the Web part properties (Basic repeater) screen select Ok as shown in the following screenshot.

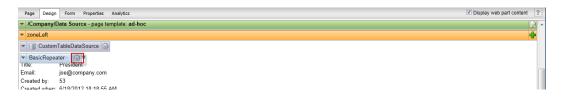
🖂 Web part pr	operties (Basic repeater)	_	_	Documentation
General				
\checkmark	Transformations			
Default	Transformation name:	 customtable custom Default 	Select Edit	t New
Visibility				
Content	Alternating transformation name:	•	Select Edit	t New E
Transformations	Item separator transformation			
No data behavior	name:	•	Select Edit	t New
Web part container	Header transformation name:	•	Select Edit	New
HTML Envelope				
XALA	Footer transformation name:	•	Select Edit	New
Time zones				
Partial caching	Selected item transformation:	•	Select Edit	t New -
Refresh content			ок	Cancel Apply

10. Validate that the data is displayed as shown in the following screenshot.



Lab 5: Editing the default Transformation

1. In the Design tab for the **BasicRepeater** web part select the **Configure** button as shown in the following screenshot.



2. In the Web part properties (Basic repeater) screen select the Transformation tab, in the Transformation name select the Edit button as shown in the following screenshot.

🦂 Web part pr	operties (Basic repeater)			0	Documentation
General Layout					
\lor	Transformations				^
Default	Transformation name:	customtable.custom.Default	Select	Edit New	
Visibility					
Content	Alternating transformation name:	•	Select	Edit New	
Transformations	Item concretes transformation				_
No data behavior	Item separator transformation name:	•	Select	Edit New	
Web part container					
	Header transformation name:		Select	Edit New	

3. In the Edit transformation dialog within the Code window replace the existing code with the following, then select Save & close, and in the Web part properties (basic repeater) window click OK.

```
    <tb>Name:</b>
    >
    >
    >
    >
    >
    >
    >
    >
    >
    >
    >
    >
    >
    >
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    >
    >
    >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>><t
```

4. Select the Live Site button to view the edited transformation as shown in the following screenshot.

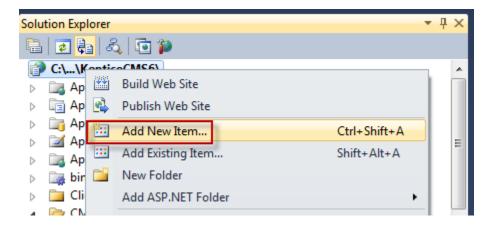


5. On the Live site click the **Send Mail** link for **Joe Brown** and validate that you see the email as shown below.

🔁 🛃 💆	7 15 🗢 🕈	-	-	-	_
File	Message	Insert	Options	Format Text	Review
	From -	Microsoft	Exchange		
Send	То	joe@comp	oany.com		
	Сс				
	Subject:	Contact F	Request		
1					

Lab 6: Adding custom table data with the API

1. In Visual Studio open the Kentico CMS Web project in the **Solution Explorer** right click on the project root and select **Add new item** as shown in the following screenshot.



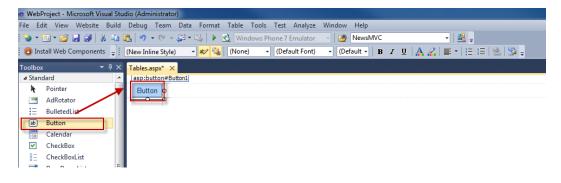
2. In the Add new item dialog select Web form, in the Name field enter Tables.aspx, and then click the Add button as shown in the following screenshot.

Add New Item - C:\inetpub\www.root\KenticoCMS6\							
Installed Templates	Sort by:	Default 🔹			Search Installed Templates		٩
Visual Basic Visual C#		Web Form	Visual C#	ń	Type: Visual C# A form for Web Applications		
Online Templates	¢ <mark>#@</mark>	Content Page (Razor)	Visual C#	E			
	¢ <mark>@</mark>	Empty Page (Razor)	Visual C#				
	c <mark>#@</mark>	Helper (Razor)	Visual C#				
	¢ <mark>@</mark>	Layout Page (Razor)	Visual C#				
	¢ <mark>@</mark>	Web Page (Razor)	Visual C#				
		Master Page	Visual C#				
		Web User Control	Visual C#				
	4	ADO.NET Entity Data Model	Visual C#	Ŧ			
Name: Tables.aspx					/ Place code in separate file Select master page		
					Add	Cano	el.

3. In the Tables.aspx form click the **Design** button as shown in the following screenshot.

ody			
🛛 Design 🛛 🗖 Sp	lit 🛛 Source	<html> <body></body></html>	

4. From the Toolbox drag the **Button** control onto **Tables.aspx** as shown in the following screenshot.



5. In the Button1 Properties window update the following fields

Field	Value
ID	Createltem
Text	Create new item

6. On the Design tab double click the **Create new item** button as shown in the following screenshot.

Tables.aspx ×	
asp:button#CreateItem	
Create new item	
	7

7. At the top of the Tables.aspx web form add the following Using statements.

l	using	CMS.SettingsProvider;
l	using	CMS.SiteProvider;
l		CMS.DataEngine;
l	using	CMS.CMSHelper;

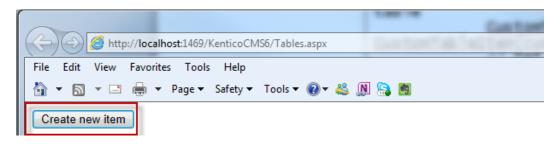
8. In the Createitem_click event replace any existing code with the following and then select Save (CTRL+S).

```
CustomTableItemProvider ctiProvider = new
CustomTableItemProvider(CMSContext.CurrentUser);
    string customtablename = "customtable.custom";
    DataClassInfo customTableClassInfo =
DataClassInfoProvider.GetDataClass(customtablename);
    if (customTableClassInfo == null)
    {
      throw new Exception("table does not exist.");
    }
    else
    {
      // Create item
      CustomTableItem item = new
CustomTableItem(customTableClassInfo.ClassName, ctiProvider);
      // Set values
      item.SetValue("Name", "Thom Robbins");
      item.SetValue("Email", "thomasr@kentico.com");
      item.SetValue("Title", "Dish washer");
      // Insert the item
      item.Insert();
```

9. With Tables.aspx selected in the Solution Explorer press the Start (Play) button as shown in the following screenshot.

 WebProject - Microsoft Visual Stud 	dio (Administrator)
	Debug Team Data Tools Test Analyze Window Help
📎 • 🛅 • 💕 🚽 🗿 👗 🖬 D	🖹 🔊 - 🔍 - 📮 - 🖳 🕨 🕄 Windows Phone 7 Emulator 🕞 💋 NewsMVC 🔹 🔛 📮
📵 Install Web Components 💡	B % 🖢 🖉 🎼 妻 🗐 🖆 💭 🗣 🗭 🕏 名 🔒 🗛 📮
Toolbox 🝷 🕂 🗙	Tables.aspx.cs* × Tables.aspx*
⊿ General	🛠 Tables 🔹 🦸
There are no usable controls in this group. Drag an item onto this text to add it to the toolbox.	<pre>1</pre>

10. In the running application click the **Create new item** button as shown in the following screenshot.



11. Log into CMS Desk then select the **Tools** tab and then select **Custom tables** as shown in the following screenshot.



12. In the Custom tables menu select the Edit (Pencil) icon for the Customer Contacts table as shown in the following screenshot.



13. In the Custom table properties validate that the new custom table item is available as shown in the following screenshot.

Custom tabl	e prope	rties						
<u>Custom tables</u> Customer Contacts								
📑 New item 🔛 Se	I New item I Select displayed fields							
 Actions 	ItemID	Name	Title	Email	Created by	Created when		
1 🖌 🗶 🖻 🖌	5	Thom Robbins	Dish washer	thomasr@kentico.com	Global Administrator (administrator)	6/18/2012 3:38:08 PM		
1 🙀 🕅 🗱	1	Joe Brown	President	joe@company.com	Global Administrator (administrator)	6/18/2012 10:18:55 AM		
🥒 💥 🗟 🕆 🦊	2	Ted Thomas	Marketing VP	ted@company.com	Global Administrator (administrator)	6/18/2012 10:19:22 AM		

Lab 7: Editing custom table data using the API

1. On the Tables. aspx form on the Design tab from the **Toolbox** drag a **Button** control onto the form as shown in the following screenshot.

🗙 WebProject - Microsoft Visual Stu	udio (Administrator)
File Edit View Website Build	Debug Team Data Format Table Tools Test Analyze Wind
i 🗞 - 🛅 - 💕 🗐 🕼 🗼 🔖	🖺 🔄 🔹 🖓 🔹 💭 🔹 🖳 🕨 这 🛛 Windows Phone 7 Emulator 💿
🔋 📵 Install Web Components 🖕	(New Inline Style) - at 🗐 (None) - (Default Font) -
Toolbox - 4 ×	Tables.aspx.cs Tables.aspx* ×
▲ Standard ▲	asp:button#Button1
Pointer	Create new item Button o
AdRotator	
= BulletedList	
ab Button	
Calendar	

2. In the Button 1 Properties update the following fields

Field	Value
ID	EditItem
Text	Edit item

3. Double click the **Edit item** button as shown in the following screenshot.

Tables.aspx.cs Tables.	aspx* ×
L	asp-button#EditItem
Create new item	Edit item Ø
-	

4. In the EditItem_Click event replace any code with the following and then select Save (CTRL+S).

```
CustomTableItemProvider ctiProvider = new
CustomTableItemProvider(CMSContext.CurrentUser);
string customtablename = "customtable.custom";
           DataClassInfo customTableClassInfo =
DataClassInfoProvider.GetDataClass(customtablename);
           if (customTableClassInfo == null)
           {
                throw new Exception("table does not exist.");
           }
           else
           {
                // Provide ID of item you want to edit
int itemId = 5;
                // Get custom table item with given ID
                CustomTableItem item = ctiProvider.GetItem(itemId,
customTableClassInfo.ClassName);
                // Set value of the custom table item field
item.SetValue("Name", "Frank Jones");
                // Update item
item.Update();
           }
```

5. With Tables.aspx selected in the Solution Explorer press Start (Play) as shown in the following screenshot.

 WebProject - Microsoft Visual Stud 	dio (Administrator)
File Edit View Website Build	Debug Team Data Tools Test Analyze Window Help
📎 • 🖽 • 💕 🚽 🕼 🗼 🖬	🖺 🤊 🗸 🖓 🗝 🦉 💌 🕵 Windows Phone 7 Emulator 🕞 🙆 NewsMVC 🔹 📲 📮
📵 Install Web Components 💡	💀 🗞 🗠 🎼 (李 伊) 🖆 일 🗆 🖓 🤤 🖓 😓 🖓 🖕
Toolbox 🝷 म 🗙	Tables.aspx.cs* × Tables.aspx*
⊿ General	🛠 Tables 🗸 👘
There are no usable controls in this group. Drag an item onto this text to add it to the toolbox.	<pre>1 ⊡using System; 2 using System.Collections.Generic; 3 using System.Linq; 4 using System.Web; 5 using System.Web; 6 using System.Web.UI; 6 using System.Web.UI; 7 // added 8 using CMS.SettingsProvider; 9 using CMS.SiteProvider; 10 using CMS.DataEngine; 11 using CMS.CMSHelper;</pre>

6. In the running application click the Edit item button as shown in the following screenshot.



7. Log into CMS Desk then select the **Tools** tab and then select **Custom tables** as shown in the following screenshot.



8. In the Custom tables menu select the Edit (Pencil) icon for the Customer Contacts table as shown in the following screenshot.



9. In the Custom table properties validate that the Name field contains Frank Jones as shown in the following screenshot.

Custom tables > Custo	> Custom tables > Customer Contacts							
Rev Rem 🔢 Select displayed fields								
- Actions	ItemID	Name	Title	Email	Created by	Created when	Modified by	
/ 🗱 🖻 🕯 🕴	5	Frank Jones	Dish washer	thomasr@kentico.com	Global Administrator (administrator)	6/18/2012 3:38:08 PM	Public Anonymous User (public)	
/ 🗙 🖻 🕯 👘	1	Joe Brown	President	joe@company.com	Global Administrator (administrator)	6/18/2012 10:18:55 AM	Global Administrator (administrator	
/ 💥 🖻 🕯 👘	2	Ted Thomas	Marketing VP	ted@company.com	Global Administrator (administrator)	6/18/2012 10:19:22 AM	Global Administrator (administrato	

Summary

In this set of Hands on Labs we looked at how to create a custom table and then display the data using the Basic Repeater web part. We also looked at how we can edit the default transformation and use the Kentico CMS API. Specifically, we covered the following.

- Creating a custom table
- Adding data to a custom data using CMS Site manager
- Creating a new CMS page
- Using Data source web parts
- Displaying data with the Basic repeater web part
- Editing the default transformation
- Adding items using the API
- Editing items using the API

Key Resources:

- <u>http://devnet.kentico.com/Documentation.aspx</u>
- <u>http://devnet.kentico.com/Videos/Content-Management/How-To--Using-Data-Source-Web-Parts.aspx</u>