





Universal Lookup

Universal Lookup Database

Universal Lookup functionality allows extension of otherwise static database structures with custom fields, and simplifies maintenance of lookup records in a fixed set of tables. Below is a sample database diagram with a universal lookup. *Lookup* table in the middle has integer *LookupID*, string LookupText, and *LookupGroupName* field. Lookup records in the same group constitute a virtual lookup dataset.



Below is a list of records available in this table. There are several records with the group *Categories*, some other ones with the groups *Sub Categories*, *Suppliers*, and *Comm Methods*.

	LookupID	LookupText	LookupGroupN	LookupDisplay	Parent1LookupID	Parent2LookupID	Parent3LookupID
Þ	16	Category 1	Categories	1	NULL	NULL	NULL
	17	Category 2	Categories	2	NULL	NULL	NULL
	18	Category 3	Categories	3	NULL	NULL	NULL
	19	Sub Category 1	Sub Categories	1	16	NULL	NULL
	20	Sub Category 2	Sub Categories	2	16	NULL	NULL
	21	Sub Category 3	Sub Categories	3	17	NULL	NULL
	22	Sub Category 4	Sub Categories	4	18	NULL	NULL
	23	Sub Category 5	Sub Categories	5	18	NULL	NULL
	24	Sub Category 6	Sub Categories	6	18	NULL	NULL
	25	Sub Category 7	Sub Categories	7	18	NULL	NULL
	26	Sub Category 8	Sub Categories	8	18	NULL	NULL
	27	Supplier 1	Suppliers	NULL	NULL	NULL	NULL
	28	Supplier 2	Suppliers	NULL	NULL	NULL	NULL
	29	Supplier 3	Suppliers	NULL	NULL	NULL	NULL
	30	Comm Method 1	Comm Methods	NULL	NULL	NULL	NULL
	31	Comm Method 2	Comm Methods	NULL	NULL	NULL	NULL
	32	Comm Method 3	Comm Methods	NULL	NULL	NULL	NULL

The lookup table also has three self-referring keys, *Parent1LookupID*, *Parent2LookupID*, and *Parent3LookupID*. This can be used to refer to the category of a subcategory. You can see which subcategories belong to which category in the field list. The references in our example are under *Parent2LookupID* field.

The products table has *CategoryID*, *SubCategoryID*, and *SupplierID*, all of whom are referring to the same lookups table. You will have to set up foreign keys to allow *Code On Time Generator* to detect the relationship that the universal lookup table creates.

This script creates the database tables for Microsoft SQL Server.

```
USE [UniversalLookups]
GO
/***** Object: Table [dbo].[Lookups] *****/
SET ANSI NULLS ON
GO
SET QUOTED IDENTIFIER ON
GO
CREATE TABLE [dbo].[Lookups](
      [LookupID] [int] IDENTITY(1,1) NOT NULL,
      [LookupText] [nvarchar] (250) NOT NULL,
      [LookupGroupName] [nvarchar] (50) NOT NULL,
      [LookupDisplayOrder] [int] NULL,
      [Parent1LookupID] [int] NULL,
      [Parent2LookupID] [int] NULL,
      [Parent3LookupID] [int] NULL,
 CONSTRAINT [PK Lookups] PRIMARY KEY CLUSTERED
(
      [LookupID] 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
/***** Object: Table [dbo].[Products] *****/
SET ANSI NULLS ON
GO
SET QUOTED IDENTIFIER ON
GO
CREATE TABLE [dbo].[Products](
      [ProductID] [int] NOT NULL,
      [ProductName] [nvarchar] (50) NOT NULL,
      [CategoryID] [int] NOT NULL,
      [SubCategoryID] [int] NULL,
      [SupplierID] [int] NOT NULL,
      [Price] [money] NOT NULL,
 CONSTRAINT [PK Products] PRIMARY KEY CLUSTERED
(
      [ProductID] 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
/***** Object: ForeignKey [FK Lookups Parent1Lookup] *****/
```

```
ALTER TABLE [dbo].[Lookups] WITH CHECK ADD CONSTRAINT
[FK Lookups Parent1Lookup] FOREIGN KEY([Parent1LookupID])
REFERENCES [dbo].[Lookups] ([LookupID])
GO
ALTER TABLE [dbo]. [Lookups] CHECK CONSTRAINT [FK Lookups Parent1Lookup]
GO
                                                         *****/
/***** Object: ForeignKey [FK Lookups Parent2Lookup]
ALTER TABLE [dbo].[Lookups] WITH CHECK ADD CONSTRAINT
[FK Lookups Parent2Lookup] FOREIGN KEY([Parent2LookupID])
REFERENCES [dbo].[Lookups] ([LookupID])
GO
ALTER TABLE [dbo].[Lookups] CHECK CONSTRAINT [FK Lookups Parent2Lookup]
GO
/***** Object: ForeignKey [FK Lookups Parent3Lookup]
                                                        *****/
ALTER TABLE [dbo]. [Lookups] WITH CHECK ADD CONSTRAINT
[FK Lookups Parent3Lookup] FOREIGN KEY([Parent3LookupID])
REFERENCES [dbo]. [Lookups] ([LookupID])
GO
ALTER TABLE [dbo].[Lookups] CHECK CONSTRAINT [FK Lookups Parent3Lookup]
GO
/***** Object: ForeignKey [FK Products Category]
                                                    *****/
ALTER TABLE [dbo]. [Products] WITH CHECK ADD CONSTRAINT
[FK Products Category] FOREIGN KEY([CategoryID])
REFERENCES [dbo]. [Lookups] ([LookupID])
GO
ALTER TABLE [dbo]. [Products] CHECK CONSTRAINT [FK Products Category]
GO
                                                       *****/
/***** Object: ForeignKey [FK Products SubCategory]
ALTER TABLE [dbo].[Products] WITH CHECK ADD CONSTRAINT
[FK Products SubCategory] FOREIGN KEY([SubCategoryID])
REFERENCES [dbo].[Lookups] ([LookupID])
GO
ALTER TABLE [dbo]. [Products] CHECK CONSTRAINT [FK Products SubCategory]
GO
/***** Object: ForeignKey [FK Products Supplier]
                                                     *****/
ALTER TABLE [dbo]. [Products] WITH CHECK ADD CONSTRAINT
[FK Products Supplier] FOREIGN KEY([SupplierID])
REFERENCES [dbo].[Lookups] ([LookupID])
GO
ALTER TABLE [dbo]. [Products] CHECK CONSTRAINT [FK Products Supplier]
GO
```

Using the Standard Application

Here is the standard *Web Site Factory* project that is generated straight from the *UniversalLookup* database. Navigate to the *Lookups* page, and you will see a list of records similar to what *SQL Management Studio* provides (with some more advanced functionality, such as adaptive filtering), and you can easily add new records to the table.

Set *Lookup Group Name* filter to *Suppliers* (using the column header), click on the dropdown menu next to *Supplier 3*, and press *New*.

🏉 Lookups - Windows Inte	ernet Explorer					
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🚖 Favorites 🛛 🏉 Look	ups				🖞 • 🔊 ·	🖃 🖶 💌 Page 🕶 Safety 🕶 Tools 🕶 🔞 🕶
History Permalink					Welcome admin, Today is Sund	ay, January 16, 2011 My Account Logout Help 🔥 🔺
MyCompany						
Home Lookups M	lembership					Site Actions *
	Home > Lookups					
About	This is a list of looku	ps.				
This page allows lookups management.	Quick Find	د New Lookups 🛁	Actions • Rep	ort 👻		View: Lookups -
See Also	(i) A filter has been	n applied. Lookup Group Name	equals Suppliers.			x
Products	Lookup Text	Lookup Group Name 🍸		Lookup Display Order Parent1 Lookup Text	Parent2 Lookup Text	Parent3 Lookup Text
	Supplier 1	Suppliers		n/a n/a	n/a	n/a
	Supplier 2	Suppliers		n/a n/a	n/a	n/a
	Supplier 3	 Suppliers 		n/a n/a	n/a	n/a
	Select					Showing 1-3 of 3 items Refresh
	Edit					
	X Delete					
	Duplicate	_				
	© 2	All rights reserved.				-
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A new inline row will appear. *Lookup Text* field will be called "Supplier 4", with *Lookup Group Name* of "Suppliers". Press *Insert*, and the record will be saved.

🏉 Lookups - Windows Int	ernet Explorer				
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🚖 Favorites 🛛 🌈 Look	kups			🗄 🔹 🗟 🔹 🖶	▼ <u>P</u> age ▼ <u>S</u> afety ▼ T <u>o</u> ols ▼ @ ▼ [≫]
History Permalink			Welcome	admin, Today is Sunday, Janua	ry 16, 2011 My Account Logout Help
斜 MyCompany					
Home Lookups • N	Membership				Site Actions *
	Home > Lookups				
About	This is a list of lookups.				
This page allows lookups management.	Quick Find	P Record •			View: Lookups -
See Also	(i) A filter has been app	olied. Lookup Group Name equals Suppliers.			x
Products	Lookup Text	Lookup Group Name 🍸	Lookup Display Order Parent1 Lookup Text	Parent2 Lookup Text	Parent3 Lookup Text
	Supplier 1	Suppliers	n/a n/a	n/a	n/a
	Supplier 2	Suppliers	n/a n/a	n/a	n/a
	Supplier 3	Suppliers	n/a n/a	n/a	n/a
	Supplier 4	Suppliers	(select) 🛋	(select)	(select)
	Insert	Cancel			
					Refresh
	© 2010 MyCompany. A	All rights reserved.			•
				Internet Protected Mode: On	🖓 🔻 🔍 100% 🔻

Now, switch to the *Products* page. The product records are displayed, but with a few deficiencies. The "Text" suffix is included for three of the fields (*Category Lookup*, *Sub Category Lookup*, *Supplier Lookup*).

History Permalink				Welcome admin, Today is Saturday, January	15, 2011 My Account Logout Help
瓣 MyCompany					
Home Lookups Me	embership				Site Actions *
	Home > Lookups > Pr Products	roducts			
About	This is a list of product	s.			
This page allows products management.	Quick Find	P ➡ New Products Actions • Rep	ort •		View: Products •
See Alco	Product Name	Category Lookup Text	 Sub Category Lookup Text 	Supplier Lookup Text	Price
Home	Product 1	Category 2	Sub Category 3	Supplier 3	\$39.95
 Membership 	Product 2	Category 1	Sub Category 1	Supplier 2	\$5.00
	Product 3	Category 3	Sub Category 7	Supplier 3	\$4.83
					Showing 1-3 of 3 items Refresh
	© 2010 MyCompany.	All rights reserved.			

When a record is edited, the lookup values for those fields are not limited by *Lookup Group Name*. All values are presented.

					Welcome admin , To	
nbership						Site Actions *
Home > Lookups > Products Products						
This is a list of products.	This is a list of l	ookups.			x	
Quick Find	\odot	<u>ک</u>			View: Lookups •	View: Products *
Product Name	Lookup Text	Lookup Group Name Lo	okup Display Order Parent1 Lookup T	ext Parent2Loc	okup Text Parent3 Lookup Text	Price
Product 1	Category 1	Categories	1 n/a	n/a	n/a	\$39.95
Save Cance	Category 2	Categories	2 n/a	n/a	n/a	
	Category 3	Categories	3 n/a	n/a	n/a	
Product 2	Sub Category 1	Sub Categories	1 Category 1	n/a	n/a	\$5.00
Product 3	Sub Category 2	Sub Categories	2 Category 1	n/a	n/a	\$4.83
	Sub Category 3	Sub Categories	3 Category 2	n/a	n/a	Showing 1-3 of 3 items Pefresh
	Sub Category 4	Sub Categories	4 Category 3	n/a	n/a	Showing 2-5 of 5 items [Refreat
	Sub Category 5	Sub Categories	5 Category 3	n/a	n/a	
	Sub Category 6	Sub Categories	6 Category 3	n/a	n/a	
	Sub Category 7	Sub Categories	7 Category 3	n/a	n/a	
	«Previous Pa	ge: 12 Next »	Items per page: 10, 1	5, 20, 25 Show	ing 1-10 of 18 items Refresh	
) 9 2010 MyCompany. All rights	s reserved.					

Modifying the Standard Application

Bring up *Code On Time Generator*, select the project name, and press *Design*. Select the *Lookups* controller and switch to the *Views* tab. Edit View *grid1*, and change *Sort Expression* to

Project Designer	exit
S Home > Controller: Lookups > View: grid1	
View Categories Styles Data Fields	
Please review view information below. Click Edit to change this record, click Delete to dele	te the record, or dick Cancel/Close to return back.
Record -	View: View -
* - indicates a required field	OK Delete Cancel
General	Id*
Id and type of the view.	grid1
	Controller
	Type *
	Grid
	O Form
Command Label & Header Text	
Specify the command, label and header text for this view.	command *
	Lookups
	Header Text
	\$DefaultGridViewDescription
	Ψ
Sort and Filter	Sort Expression
Sort expression is a list of data field names of this view, each followed by optional asc or descauffix.	LookupGroupName, LookupDisplayOrder

LookupGroupName, LookupDisplayOrder

Now, go back to *All Controllers*, and select *Products* controller. Switch to *Fields* tab. Edit the fields with "Lookup Text" in the *Label*, and remove the relevant text from their respective *Label*.

Controller	Commands	Fields	Views	Categories	Data Fields	Action Groups	Actions					
This is a list o	of fields.											
Quick Find	Q	Record •										View: Fields •
Name		In	dex Type	2		Allow Nulls	Is Primary Ke	ey Read Only	QBE	Sort	LEV	Label
ProductID			1 Int3	2		No	Yes	No	Yes	Yes	No	Product#
ProductNam	e		2 Strin	g		No	No	No	Yes	Yes	No	Product Name
CategoryID			3 Int3	2		No	No	No	Yes	Yes	No	Category#
CategoryLoc	okupText		4 Strin	g		Yes	No	Yes	Yes	Yes	No	Category
SubCategor	yID		5 Int3	2		Yes	No	No	Yes	Yes	No	Sub Category#
SubCategor	yLookupText		6 Strin	g		Yes	No	Yes	Yes	Yes	No	Sub Category
SupplierID			7 Int3	2		No	No	No	Yes	Yes	No	Supplier#
SupplierLook	kupText		8 Stri	ng	•				V	v		Supplier Lookup Text
Save	С	ancel										
Price			9 Decir	mal		No	No	No	Yes	Yes	No	Price

We will also need to make some modifications to a few fields (*CategoryID*, *SubCategoryID*, and *SupplierID*) to make sure the lookup values are filtered properly. Edit the *CategoryID* field, and scroll down to the *Dynamic Properties* section. Change *Context Fields* value to

LookupGroupName='Categories'

Dynamic Properties	Context Fields
Context fields may be listed to limit the lookup records by values of other fields of this	LookupGroupName='Categories'
controller. You can list multiple fields separated by comma.	Durania Crafta antian
Field configuration can be used to provide dynamic values for the field properties. The	Dynamic Configuration
values are derived from other fields in the same data row. List one property per line in	
format <i>Property=Heidivame</i> .	
	4

Save the record, and select *SubCategoryID*. Scroll down to the *Dynamic Properties* section, and in *Context Fields*, insert

LookupGroupName='Sub Categories', Parent1LookupID=CategoryID

Dynamic Properties	Context Fields
Context fields may be listed to limit the lookup records by values of other fields of this controller. You can list multiple fields separated by comma.	iroupName='Sub Categories', Parent1LookupID=CategoryID
Field configuration can be used to provide dynamic values for the field properties. The values are derived from other fields in the same data row. List one property per line in format <i>Property=FieldName</i> .	Dynamic Configuration

Save the change, and edit SupplierID. Scroll down to Dynamic Properties, and type in

LookupGroupName='Suppliers'

Dynamic Properties	Context Fields
context fields may be listed to limit the lookup records by values of other fields of this controller. You can list multiple fields separated by comma.	LookupGroupName= Suppliers
Field configuration can be used to provide dynamic values for the field properties. The values are derived from other fields in the same data row. List one property per line in format <i>Property=FieldName</i> .	Dynamic Configuration

Save the record, close the Designer, and generate the application.

View the Modifications

The columns are now displaying proper headers, with no extraneous "Lookup Text". The records are now sorted according to *Lookup Group Name* and *Lookup Display Order*.

History Permalink			Welcome admin.	. Todav is Sundav, Januarv	16, 2011 My Account Logout Help
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Home Lookups N	1embership				Site Actions *
Home Lookups in	lembership				Site Actions
	LUOKups				
About	This is a list of lookups.				
This page allows lookups management.	Quick Find	🔎 🖃 New Lookups 🛛 Actions 🔹 Report 🔹			View: Lookups 🔹
See Also	Lookup Text	Lookup Group Name	Lookup Display Order Parent1	Parent2	Parent3
Products	Category 1	Categories	1 n/a	n/a	n/a
	Category 2	Categories	2 n/a	n/a	n/a
	Category 3	Categories	3 n/a	n/a	n/a
	Comm Method 1	Comm Methods	n/a n/a	n/a	n/a
	Comm Method 2	Comm Methods	n/a n/a	n/a	n/a
	Comm Method 3	Comm Methods	n/a n/a	n/a	n/a
	Sub Category 1	Sub Categories	1 Category 1	n/a	n/a
	Sub Category 2	Sub Categories	2 Category 1	n/a	n/a
	Sub Category 3	Sub Categories	3 Category 2	n/a	n/a
	Sub Category 4	Sub Categories	4 Category 3	n/a	n/a
	«Previous Page: 1 2	Next »	Items	per page: 10, 15, 20, 25	Showing 1-10 of 18 items Refresh

If you navigate to the *Products* page, you can see the extraneous text has been removed here as well.

History Permalink				Welcome admin, Today is Sunda	y, January 16, 2011 My Account Logout Help				
í MyCompany	🙀 MyCompany								
Home Lookups • Membership									
	Home > Lookups > Products Products								
Summary	This is a list of products.								
Product Name	Quick Find P Record	•			View: Products -				
Product 1	Product Name	Category	Sub Category	Supplier	Price				
Category Category 2	Product 1	Category 2 🥢 🚅	Sub Category 3 🖉 🛁	Supplier 3 🖉 🛁	\$39.95				
Sub Category									
Sub Category 3	Save Cancel								
Supplier	Product 2	Category 1	Sub Category 1	Supplier 2	\$5.00				
Supplier 3	Troduce 2	cuttgory 1	Sub Category 1	Supplier 2	\$5.00				
Price	Product 3	Category 3	Sub Category 7	Supplier 3	\$4.83				
\$39.95					Showing 1-3 of 3 items Refresh				

If you edit a record, and select a *Category* with the lookup, you will only see *Categories*. If you open the *Sub Category* lookup, only sub categories relevant to the selected *Category* will be shown. *Supplier* lookup will only show suppliers.

History Permalink						Welcome admin, Today is Sunda	y, January 16, 2011 My Account Logout Help
MyCompany							
Home Lookups • M							Site Actions *
	Home > Lookups > Products Products						
Summary							
Product Name	Quick Find , P Record						View: Products -
Category	Product Name		This is a list of lookups.		x	Supplier	Price
Category 2	Product 1		○ [P 🗳 View:	Lookups •	Supplier SC/	\$23.32
Sub Category 3	Save Cancel		Lookup Text Lookup E	isplay Order Parent2	Parent3		
Supplier	Product 2	Category 1	Sub Category 4	4 n/a	n/a	Supplier 2	\$5.00
Supplier 3		Category 3	Sub Category 5	5 n/a	n/a	Supplier 3	\$4.83
\$39.95			Sub Category 6	6 n/a	n/a		Showing 1-3 of 3 items Refresh
About			Sub Category 8	8 n/a	n/a		
This page allows products management.				Showing 1-5 of 5	items Refresh		
See Also							
= Home							
 Membership 							

Further Modification

Nevertheless, lookups for those fields are not really that convenient for the end user. Let's modify the presentation to display a dropdown list for *Category*, radio button list for *Sub Category*, and a list box for *Supplier*.

Open the *Designer*, select the *Products* controller, switch to *Fields* tab, and edit *CategoryID*. Scroll down to *Lookup* section, and select "Drop Down List" for *Items Style*. *Data Value Field* is "LookupID" and *Data Text Field* is "LookupText".

Lookup	Items Style
Lookup settings can be based on another data controller or defined as static items. Follow the link to learn more about lookup item styles.	Auto Complete
You can list static lookup items on the <i>Items</i> tab.	Items Data Controller
Property <i>Copy</i> specifies the fields that must be copied from the lookup data row when a lookup value is selected. Specify one copy source per line in format <i>FieldName=LookupFieldName</i> .	Data Value Field LookupID
Items style <i>Check Box List</i> allows to configure the field as many-to-many if you set the data type to <i>String</i> , indicate that the value of the field is <i>computed at runtime</i> and select a <i>Target Controller</i> .	Data Text Field LookupText
Lookup is rendered in search mode if Search on Start is checked.	Сору
The lookup window can be activated automatically in edit/new mode if the field value is	
blank.	v

Save, and edit SubCategoryID field. Change Items Style to "Radio Button List".

Lookup	Items Style
Lookup settings can be based on another data controller or defined as static items. Follow	Radio Button List 👻
the link to learn more about lookup item styles.	Items Data Controller
You can list static lookup items on the <i>Items</i> tab.	Lookups 2
Property <i>Copy</i> specifies the fields that must be copied from the lookup data row when a	Data Value Field
FieldName=LookupFieldName.	(select)
Items style Check Box List allows to configure the field as many-to-many if you set the data	Data Text Field
type to <i>String</i> , indicate that the value of the field is <i>computed at runtime</i> and select a <i>Targe Controller</i> .	(select)
Lookup is rendered in search mode if Search on Start is checked.	Сору
The leafers window can be activated automatically in edit/new mode if the field value is	A
blank.	·

Save, and edit SupplierID field. Change Items Style to "List Box".

Lookup	Items Style
Lookup settings can be based on another data controller or defined as static items. Follow the link to learn more about lookup item styles.	List Box 👻
You can list static lookup items on the <i>Items</i> tab.	Items Data Controller
Property <i>Copy</i> specifies the fields that must be copied from the lookup data row when a lookup value is selected. Specify one copy source per line in format <i>FieldName=LookupFieldName</i> .	Data Value Field (select)
Items style Check Box List allows to configure the field as many-to-many if you set the data type to String, indicate that the value of the field is computed at runtime and select a Target Controller.	Data Text Field (select)
Lookup is rendered in search mode if Search on Start is checked.	Сору
The lookup window can be activated automatically in edit/new mode if the field value is blank.	× •

Save the field, close the *Designer*, and generate the application. When the web page opens, navigate to *Products* page. If you edit a record, you can see the new item lookup styles in action.

<i>(</i> Products - Windows Inte	ernet Explorer							x
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🖕 Favorites 🛛 👻 🔏	Favorites 💮 👻 🏀 Lookups 🏉 Products				<mark>. ▼ <u>P</u>age ▼ <u>S</u>afety ▼ T</mark>	í <u>o</u> ols 🔻 🔞	• ~	
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🎁 MyCompany								
Home Lookups - M	embership					Site	Actions 🔻	
	Home > Lookups > Products	5						
Summary	This is a list of products.							
Product Name	Quick Find 🔎				View: Prod	lucts 🔻		
Category	Product Name	Category		Sub Category	Supplier		Price	=
Category 1	Product 1	Category 2		Sub Category 3	Supplier 3		\$39.95	
Sub Category				N/A	Supplier 1			
Sub Category 1 Supplier Supplier 2	Product 2	Cate Category 1	•	Sub Category 1 Sub Category 2	Supplier 2 Supplier 3		\$5.00	
Price \$5.00	Save Car	Category 2 Category 3						
About	Product 3	Category 3		Sub Category 7	Supplier 3		\$4.83	
This page allows products management.						Showing 1-3 of 3 items	Refresh	
See Also								Ŧ
				😜 Int	ernet Protected Mode: C	n 🐴 🕇	م 100% م	•