

MCTS Self-Paced Training Kit (Exam 70-516): Accessing Data with Microsoft[®] .NET Framework 4

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To ensure the ongoing accuracy of this book and its companion content, we've reviewed and confirmed the errors listed below. If you find a new error, we hope you'll report it to us on our website: www.microsoftpressstore.com/contact-us/errata.

Page	Location	Description	Date corrected
N/A	Throughout	All references to:	8/12/2011
	book	Code First	
		Should read:	
		Model First	
7	Exam Tip	Reads:	8/12/2011
	reader aid, first line	AutoIncementStep and AutoIncrementSeed	
		Should read:	
		AutoIncrementStep and AutoIncrementSeed	
8	Fourth	Reads:	8/12/2011
	paragraph, end of second	you can use the ImportDataRow method,	
	line	Should read:	
		you can use the ImportRow method,	
10	Table, last	Reads:	8/12/2011
	row,	An attached data row is deleted by using the Delete method of the	
	description	DataRow object or when it is removed from its table by calling the	
	column	DataTable.DeleteRow method.	
		Should read:	
		An attached data row is deleted by using the Delete method of the	
		DataRow object.	
12	Visual Basic	Reads:	8/12/2011
	code sample,	Dim retVal As String = String.Format(_	
	fourth and fifth lines	"RowState: {0}" + vbCrLf	
		Should read:	
		Dim retVal As String = String.Format(_	
		"RowState: {0}" + vbCrLf, row.RowState);	

Page	Location	Description	Date corrected
13	Note reader aid, last sentence	Reads: Because the rows are now synchronized with the rows at the database server.	10/15/2014
		Should read: Because the rows are now synchronized with the rows at the database server. (Depending on how you loaded the data, this call may have been made automatically for you).	
13	First paragraph, fourth line	Reads: In a typical data environment (after data has been loaded), the DataRow state of the loaded rows is set to Added. Calling AcceptChanges on the data table resets the row state of all the DataRow objects to Unchanged.	10/15/2014
		Should read: In a typical data environment (after data has been loaded), the DataRow state of the loaded rows is set to Added. Calling AcceptChanges on the data table resets the row state of all the DataRow objects to Unchanged. (Depending on how you loaded the data, this call may have been made automatically for you.)	
14	Visual Basic code block, third-to-last line	Reads: For Each dr As DataRow In dt.Rows Should read:	8/12/2011
21	Visual Basic code block, third line	For Each dr As DataRow In cars.Rows Reads: Dim vendor as DataTable = vendorData.Tables.Add("Vendors") Should read: Dim vendors as DataTable = vendorData.Tables.Add("Vendors")	8/12/2011
21	C# code block, sixth line from bottom		8/12/2011
26	Second paragraph, last sentence	Reads: You can set ChangeRule to a member of the Rule enumeration to get the appropriate behavior. Should read: You can set UpdateRule to a member of the Rule enumeration to get the appropriate behavior.	10/15/2014

Page	Location	Description	Date corrected
26	Visual Basic and C# code blocks	Middle line of Visual Basic code reads: Dim fk as ForeignKeyConstraint = part.Constraints("vendors_parts")	8/12/2011
		Should read:	
		Dim fk as ForeignKeyConstraint = parts.Constraints("vendors_parts")	
		Penultimate line of C# code reads: (ForeignKeyConstraint)part.Constraints["vendors_parts"];	
		Should read: (ForeignKeyConstraint)parts.Constraints["vendors_parts"];	
27	C# code block,		8/12/2011
	third-to-last line	<pre>people.PrimaryKey = new DataColumn[] { person.Columns["Id"] };</pre>	-,,
		Should read: people.PrimaryKey = new DataColumn[] { people.Columns["Id"] };	
28	Second	Reads:	10/15/2014
	paragraph, penultimate	the Sales data table and its data are added to masterData.	
	line	Should read:	
		the Orders data table and its data are added to masterData.	
33	Question 2,	Reads:	10/15/2014
	first sentence	You want to set up a primary key column.	
		Should read:	
		You want to set up an auto-number primary key column.	
34	Last paragraph		10/15/2014
		If this code is executed on the cars DataSet defined in the previous	
		lesson	
		Should read:	
		If this code is executed on the cars DataTable defined in the previous	
		lesson	
35	Second	Reads:	10/15/2014
	paragraph,	To change the name of the repeating element for the DataRow	
	second	objects from Car to Auto, you can change	
	sentence	Should read:	
		To change the name of the repeating element for the DataRow	
		objects from Cars to Auto, you can change	
41	Visual Basic code block,	Reads: Dim vendor as DataTable = vendorData.Tables.Add("Vendors")	10/15/2014
	third line	Should read:	
		Dim vendors as DataTable = vendorData.Tables.Add("Vendors")	

Page	Location	Description	Date corrected
44	Visual Basic	Reads:	8/12/2011
	and C# sample	Dim fs as new FileStream(_	
	code blocks	desktopFileName("VendorData.bin",FileMode.Create)	
		Visual Basic code should read:	
		Dim fs as new FileStream(_	
		desktopFileName("VendorData.bin"),FileMode.Create)	
		C# code should read:	
		FileStream fs = new FileStream(
		desktopFileName("VendorData.bin"),FileMode.Create);	
47	Fourth	Reads:	10/15/2014
	paragraph,	If the end of data is reached, the Read method returns null. Any	
	second and	attempt to execute the Read method after the end of data is reached	
	third sentences	s will always return null, even if more DataRow objects are added.	
		Should read:	
		If the end of data is reached, the Read method returns false and no	
		data is loaded. Any attempt to execute the Read method after the end	
		of data is reached will always return false and no data will be loaded,	
		even if more DataRow objects are added.	
47	First	Reads:	8/12/2011
	paragraph,	For example, if you are using DataTableReader to iterate over the	
	second	rows in a DataTable object, you will be able to add or remove rows	
	sentence	while in your looping code.	
		Should read:	
		For example, if you are using DataTableReader object to iterate over	
		the rows in a DataTable object, you won't be able to use the	
		DataTableReader to modify the rows, but you will be able to access	
		the DataTable object in your looping code to directly add or remove	
		rows.	
49, 50	Visual	The lines that read:	8/12/2011
	Basicand C# code blocks	Dim theCar = CType(cars.Rows(0)("CarObject"), Car)	
		Should read:	
		Dim theCars = CType(cars.Rows(0)("CarObject"), Car)	
		The lines that read:	
		Return Car	
		Should read:	
		Return cars	

Page	Location	Description	Date corrected
52	Both bulleted item lead-ins	First bulleted lead-in reads: DisplayMember	10/15/2014
		Should read: DataTextField	
		Second bulleted lead-in reads: ValueMember	
		Should read: DataValueField	
66	Table 2-1, last row, middle column	Reads: SqlPermission	10/15/2014
		Should read: SqlClientPermission	
69	"Configuring an OLEDB Connection String"	Reads: Table 2-3 describes the most common ODBC connection string settings.	10/15/2014
	section, first	Should read: Table 2-3 describes the most common OLEDB connection string settings.	
69	Third connection string example, third	Reads: Trusted_Connection=yes	10/15/2014
	line	Trusted_Connection=yes;	
86	Final paragraph	n Reads: a stored procedure called uspGetCustomerById,	10/15/2014
		Should read: a stored procedure called CustOrderHist,	
88	First code block, ninth line	Reads: "UPDATE Products SET UnitPrice = UnitPrice * 1.1 WHERE ProductID =	10/15/2014
		Should read: "UPDATE Products SET UnitPrice = UnitPrice * 1.1 WHERE ProductID = 10"	
89	Second paragraph, last sentence	Reads: in the Sales table directly into a variable called count.	10/15/2014
		Should read: in the Products table directly into a variable called count.	
90	Last paragraph, sixth line	Reads: using the default PreserveChanges enumeration value,	10/15/2014
		Should read: using the default PreserveCurrentValues enumeration value,	

Page	Location	Description	Date corrected
94	Visual Basic code block, fifth-to-last line	Reads: bc.DestinationTableName = "StoreList" e	10/15/2014
		Should read:	
		bc.DestinationTableName = "CustomerList"	
95	First paragraph, third sentence	Reads: For example, the preceding code sample retrieved only the STORE names.	8/12/2011
		Should read: For example, the preceding code sample retrieved only the customer names and IDs. The retrieved data could be further limited by adding a WHERE clause to the SQL statement.	
97	Last paragraph, fourth line	Reads: DbDataAdapter is great for ad hoc changes and demos,	10/15/2014
		Should read: DbCommandBuilder is great for ad hoc changes and demos,	
102	Visual Basic and C# code blocks	In the Visual Basic code sample, the following line should be deleted: Case DbProvider.Oracle connection = New System.Data.OracleClient.OracleConnection()	8/12/2011
		In the C# code sample, the following line should be deleted: case DbProvider.Oracle: connection = new System.Data.OracleClient.OracleConnection(); break;	
113	Code block, fourth section	Reads:	10/15/2014
		cmdUpdateRepairs.Parameters.Add("@OriginalDescription", SqlDbType.VarChar, 60, "Description").SourceVersion = DataRowVersion.Original;	
122	First sentence after table	Reads: The following is a description of the concurrency levels that Table 2-6 shows.	10/15/2014
		Should read: The following is a description of the isolation levels that Table 2-6 shows.	

Page	Location	Description	Date corrected
134	First paragraph, last sentence	Reads: they are different connection objects, which will cause the single transaction to be promoted to a distributed transaction.	10/15/2014
		Should read: they are different connection objects, which will cause the single transaction to be promoted to a distributed transaction if using SQL Server 2005, but later releases of SQL Server do not promote to a distributed transaction.	
140	Question 3, answer B	Reads: B. As a DataGram file Should read: B. As a DataDiff file	8/12/2011
179	C# code block, middle of page		8/12/2011
187	"Skip" section, Visual Basic and C# code blocks	2008 Visual Basic reads: Dim scores = {88, 56, 23, 99, 65, 93, 78, 23, 99, 90} Should read: Dim scores = {88, 56, 23, 99, 65, 93, 78, 99, 90} C# reads: int[] scores = { 88, 56, 23, 99, 65, 93, 78, 23, 99, 90 }; Should read:	10/15/2014
214	Visual Basic code block, first line on page	int[] scores = { 88, 56, 23, 99, 65, 93, 78, 99, 90 }; Reads: For i = 0 To pageCount Should read: For i = 0 To pageCount -1	10/15/2014
217, 218	Last sentence (continues to 218)	Reads: If you need to perform a join on multiple keys, use the Visual Basic And keyword or the && C# operator. Should read: If you need to perform a join on multiple keys, use the Visual Basic And keyword. In C# you need to construct an anonymous type for each side of the equals.	10/15/2014

Page	Location	Description	Date corrected
219	,	Reads: var carsWithRepairs = from c in cars join rep in repairs on c.VIN equals rep.VIN into temp from r in temp.DefaultIfEmpty() orderby c.VIN, r == null ? 0 : r.Cost	10/15/2014
		Should read: var carsWithRepairs = from c in cars join rep in repairs on c.VIN equals rep.VIN into temp from r in temp.DefaultIfEmpty() orderby c.VIN, r == null ? 0 : r.Cost	
232	"Lesson Summary" paragraph	Reads: This lesson provided a detailed overview of the ADO.NET disconnected classes. Should read:	10/15/2014
234	Table 3-3	This lesson provided an introduction to LINQ.Should read:CUSTOMERORDERORDERITEMCUSTOMEROrderIDOrderItemIDNameCustomerIDOrderIDAddressOrderDateProductIDCityRequiredDateQuantityStateShippedDatePriceDiscountDiscount	8/12/2011
257	Step 8, last line		10/15/2014

Page	Location	Description	Date corrected
260	Visual Basic code block	Reads: private void mnuBasicQuery_Click(object sender, RoutedEventArgs e) { var ctx = new NorthwindDataContext(); var sw = new StringWriter(); ctx.Log = sw; var customers = from c in ctx.Customers where c.CompanyName.Contains("Restaurant") orderby c.PostalCode select c; dg.ItemsSource = customers; MessageBox.Show(sw.GetStringBuilder().ToString()); } Should read: Private Sub mnuBasicQuery_Click(ByVal sender As System.Object,{ ByVal e As System.Windows.RoutedEventArgs) Dim ctx = New NorthwindDataContext() Dim sw = New StringWriter() ctx.Log = sw Dim customers = From c In ctx.Customers Where c.CompanyName.Contains("Restaurant") Order By c.PostalCode Select c	8/12/2011
		dg.ItemsSource = customers MessageBox.Show(sw.GetStringBuilder().ToString());	
		End Sub	
327	First bulleted item	If your edition of this books is missing the description of the first bulleted point, it should read as follows:	10/15/2014
		GetPrefixOfNamespace A method that returns the prefix of the current element as a string.	
355	"Lesson Summary" section, first paragraph	Reads: This lesson provided detailed information about transforming data by using LINQ to SQL.	8/12/2011
		Should read: This lesson provided detailed information about transforming data by using LINQ to XML.	
363	Table 6-2, File Types row, last column	Reads: EDMX, CDSL, MSL, SSDL files	10/15/2014
		Should read:	
363	Table 6-1, fourth row, third column	EDMX, CSDL, MSL, SSDL files Reads: More time required but has mode features	10/15/2014
		Should read: More time required but has more features	

Page	Location	Description	Date corrected
365	Second bulleted item, second	Reads: The Entity Framework supports type types of development	10/15/2014
	sentence	Should read: The Entity Framework supports two types of development	
401	Second paragraph, first sentence	Reads: The CDSL-to-SSDL (C–S) mapping content needs to be changed.	10/15/2014
		Should read:	
410	Casand	The CSDL-to-SSDL (C–S) mapping content needs to be changed.	10/15/2014
412	Second bulleted item	Reads: Your POCO class getters and setters can have any access modifier (public, private, and so on), but none of the mapped properties can be overrideable (C# virtual), and you can't specify that you require partial trust support.	10/15/2014
		Should read: Your POCO class getters and setters can have any access modifier (public, private, and so on), but none of the mapped properties can be NonOverrideable (C# sealed), and you can't specify that you require partial trust support.	
413	XML code sample, end of fourth line	Reads: CAST(1 - od.Discount AS DECIMAL) Should read:	10/15/2014
		CAST(1 - od.Discount AS DECIMAL(18,2))	
416	Step 14, second paragraph	Reads: An album can have many songs, and a song can be on one album, many albums, or no album.	10/15/2014
		Should read: An album can have many songs, and a song can be on one album or no album.	
437	"Attaching Entities to an Object	Reads: with the NoTacking option or	8/12/2011
	Context" section, first paragraph, fourth line	Should read: with the NoTracking option or	

Page	Location	Description	Date corrected
440	First paragraph, first sentence	Reads: It's important to note that a cascading delete in the Entity Framework works only if the dependent entity objects are loaded.	10/15/2014
		Should read: If you add a Cascade delete rule to the model, you should have a corresponding Cascade delete rule in the database on the relationship between parent and child tables. This is the most efficient means for performing cascade deletes because the child rows don't need to be loaded into memory first. If you don't have a corresponding Cascade delete rule in the datatabase, it's important to note that a cascading delete in the Entity Framework works only if the dependent entity objects are loaded.	
477	Paragraph after Table 7- 7, last line	Reads: \$function=IsOf('MyModel.SavingsAccount') Should read:	8/12/2011
470	<u>.</u>	\$filter=isof('MyModel.SavingsAccount')	0/40/2014
478	Step 9	Reads: set the DataService generic parameter to NorthwindDataService.	8/12/2011
		Should read: set the DataService generic parameter to NorthwindEntities.	

Page	Location	Description	Date corrected
553, 554	Visual Basic and C# code	For clarity, the code samples at the bottom of page 553 and on 554 should be updated to the following:	8/12/2011
	blocks	Visual Basic	
		Private Sub mnuVerifySignature_Click(_	
		ByVal sender As System.Object, _	
		ByVal e As System.Windows.RoutedEventArgs) _	
		Handles mnuVerifySignature.Click	
		If signature Is Nothing Then	
		MessageBox.Show("Create signature first")	
		Return	
		End If	
		Dim data = "The quick brown fox jumped over the lazy dog."	
		Dim rsa = 24	
		'verify signature	
		Dim cspParms = New CspParameters(rsa)	
		cspParms.Flags = CspProviderFlags.UseMachineKeyStore	
		cspParms.KeyContainerName = "My Keys"	
		Dim algorithm = New RSACryptoServiceProvider(cspParms)	
		Dim sourceBytes() As Byte = _	
		New System.Text.UnicodeEncoding().GetBytes(data)	
		'be sure to sign the data first by	
		'using mnuSigitlSignature_Click above	
		Dim valid = algorithm.VerifyData(sourceBytes,	
		"SHA256", signature)	
		MessageBox.Show(valid.ToString())	
		End Sub	
		C#	
		private void mnuVerifySignature_Click(
		object sender, RoutedEventArgs e)	
		{	
		var data = "The quick brown fox jumped over the lazy dog.";	
		var rsa = 24;	
		// verify signature	
		var cspParms = new CspParameters(rsa);	
		cspParms.Flags = CspProviderFlags.UseMachineKeyStore;	
		cspParms.KeyContainerName = "My Keys";	
		top: a.moneycontamentame myneyc ;	
		var algorithm = new RSACryptoServiceProvider(cspParms);	

Page	Location	Description	Date corrected
		var sourceBytes = new System.Text.UnicodeEncoding().GetBytes(data);	
		<pre>//be sure to sign the data first by //using mnuSigitlSignature_Click above</pre>	
		var valid = algorithm.VerifyData(sourceBytes, "SHA256", signature);	
		MessageBox.Show(valid.ToString()); }	
554	"Encrypted Communicatio ns to SQL		10/15/2014
	Server" paragraph, third line	Should read: you can set the TrustServerCertificate setting to yes	
559, 619	Question 2, answer A	Page 559 reads: A. RNGCryptoServiceProvider	10/15/2014
		Should read: A. RSACryptoServiceProvider	
		Page 619 reads: A. Incorrect: RNGCryptoServiceProvider is an asymmetric algorithm.	
		Should read: A. Incorrect: RSACryptoServiceProvider is an asymmetric algorithm.	
602	Case Scenario 1, answer 3	Reads: 3. You can use the provider classes to send changes back to the database server. SqlConnection can connect to the database server. The SqlDataAdapter class gets the changes in each data table, and SqlDataAdapter has SqlCommand properties for select, insert, update, and delete.	10/15/2014
		Should read: 3. You can use the provider classes (covered in the next chapter) to send changes back to the database server. SqlConnection can connect to the database server. The SqlDataAdapter class gets the changes in each data table, and SqlDataAdapter has SqlCommand properties for select, insert, update, and delete.	

Page	Location	Description	Date corrected
608	Visual Basic	Visual Basic line reads:	10/15/2014
	and C# code blocks	Where OrderAmount > 20000	
		Should read:	
		Where OrderAmount > 1000	
		C# code reads:	
		where OrderAmount > 20000	
		Should read:	
		where OrderAmount > 1000	