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Command - SqlCommand, OracleCommand, OleDbCommand, OdbcCommand, etc. ADO.NET has two main components that are used for accessing and manipulating data. Web Pages Examples Learn by examples! Because ASP.NET code is executed on the server, you cannot view the code in your browser. Web Pages Examples Web Pages References At the end of this tutorial you will find a complete set of ASP.NET references with objects, components, properties and methods. The data can then be stored in a DataSet and work independently of the database. Web Pages References In this ADO.NET Tutorial series, I am going to cover all the basic and advanced concepts of ADO.NET. If you notice, here we are using OracleConnection, OracleCommand, and OracleDataReader classes. Connection - SqlConnection, OracleConnection, OleDbConnection, OdbcConnection, etc. This makes it easier for you to understand how it works. These tutorials not only provide theoretical explanations but also provide a hands-on approach to the subject with step-by-step program examples that will assist you to learn and put the acquired knowledge into practice. DataAdapter - SqlDataAdapter, OracleDataAdapter, OleDbDataAdapter, OdbcDataAdapter, etc. So, we can say that the .NET data provider for Oracle is System.Data.OracleClient. Databind to Apps, Databases, & Services. ADO stands for Microsoft ActiveX Data Objects. Here, in this article, I try to give an overview of ADO.NET. All these classes are present in System.Data.SqlClient namespace. ADO.NET code to connect to SQL Server Database The following image shows the sample ADO.NET code which is connecting to SQL Server Database and retrieves data. In the next article, I am going to discuss ADO.NET using SQL Server with Examples. Web Pages provides an easy way to combine HTML, CSS, and server code: Easy to learn, understand, and use Uses an SPA application model (Single Page Application) Similar to PHP and Classic ASP VB (Visual Basic) or C# (C sharp) scripting languages In addition, Web Pages applications are easily extendable with programmable helpers for databases, videos, graphics, social networking and more. DataReader - SqlDataReader, OracleDataReader, OleDbDataReader, OdbcDataReader, etc. We promised we will make an article on that topic as soon as possible. If you notice in the below image, here, we are using some classes such as SqlConnection, SqlCommand, and SqlDataReader. The Data sources can be SQL Server, Oracle, MySQL, and XML, etc. You will only see the output as plain HTML. Prerequisites to Learn ADO.NET: You should have basic programming knowledge of C# as well as any database such as SQL Server, Oracle, MySQL to gain more knowledge of these tutorials, then you need to use OleDbConnection, OleDbCommand, and OleDbDataReader classes. ADO.NET is one of Microsoft's Data Access technology using which we can communicate with different data sources. What types of Applications use ADO.NET? What is ADO.NET? The following are some of the .NET applications where you can ADO.NET Data Access Technology to interact with a data source. The first section is the .NET Applications, the second section is the .NET Data Providers and the third section is the data sources. DataSet: The DataSet object in ADO.NET is not provider-specific. You will also learn how to extend your web pages with programmable Web Helpers. So, the .NET data provider for OLEDB data sources is System.Data.OleDb. Different .NET Data Providers ADO.NET Data Providers Please have a look at the following image to understand the ADO.NET Data Providers in a better manner. We can also say that the .NET data provider for the SQL Server database is System.Data.SqlClient. ADO.NET code to connect to Oracle Database The following code is for connecting to Oracle Database and retrieve data. What you will learn from this Tutorial? As you can see, we have divided the diagram into three sections. Note: Similarly, if you want to communicate with OLEDB data sources such as Excel, Access, etc. They are as follows: Data provider and DataSet. At the end of this article, you will understand the following pointers in detail. OracleConnection connection = new OracleConnection("data source=.; database=TestDB; integrated security=SSPI"); OracleCommand command = new OracleCommand("Select * from Customers", connection); connection.Open(); OracleDataReader myReader = command.ExecuteReader(); while (myReader.Read()) { Console.WriteLine("\t{0}\t{1}", myReader.GetInt32(0), myReader.GetString(1)); } connection.Close(); All the above classes are present in System.Data.OracleClient namespace. We are going to explain these ADO.NET Tutorials using different types of .NET Applications which include the console, windows, asp.net web form, WPF, MVC, Web API by taking some real-time scenarios. This ADO.NET Tutorial is For whom? Note: If we missed any concept which is related to ADO.NET, then please let us know by giving a comment in the comment section. Components of ADO.NET What is .NET Data Providers? In our upcoming articles, we will discuss each of these ADO.NET objects in detail with simple as well as real-time examples. I hope you enjoy this article. The ADO.NET is one of the Microsoft's data access technology which is used to communicate between the .NET Application (Console, WCF, WPF, Windows, MVC, Web Form, etc.) and data sources such as SQL Server, Oracle, MySQL, XML document, etc. Connection, Command, DataReader, DataAdapter, DataSet, and DataView are the components of ADO.NET that are used to perform database operations. Once you connect to a database, execute the command, and retrieve the data into the .NET application. ADO.NET mainly uses System.Data.dll and System.Xml.dll. The DataSet contains a collection of one or more DataTable objects. Our "Run Example" tool displays the ASP.NET code and the HTML output simultaneously. At W3Schools every example displays the hidden ASP.NET code. Click on the "Run Example" button to see how it works: Hello Web Pages The time is @DateTime.Now Run Example » ASP.NET Web Pages Web Pages is one of many programming models for creating ASP.NET web sites and web applications. In this ADO.NET Tutorial series, we are going to cover all most all the concepts of ADO.NET such as Data Providers, Connection, Command, DataReader, DataAdapter, DataTables, DataSet, working with SQL Server database, working with XML Document, Understanding connected and disconnected architecture, SQL Bulk Copy, SQL Injection, and its Prevention, Transactions in ADO.NET, etc. That means all these classes have prefixed the word Oracle and these classes are used to communicate with the Oracle database only. It is good to have .NET Framework and Visual Studio, and SQL Server installed on your computer. So, it is used to access data independently from any data source. As a .NET developer, you should be aware of ADO.NET. Based on the data source, you need to use the appropriate provider in your application. The Database can not directly execute our C# code, it only understands SQL. In this Web Pages tutorial you will learn how to combine HTML, CSS, JavaScript and server code, using server code written in VB or C#. ADO.NET consists of a set of classes that can be used to connect, retrieve, insert, update and delete data (i.e. performing CRUD operation) from data sources. Back to: ADO.NET Tutorial For Beginners and Professionals In this article, I am going to give you a brief introduction to ADO.NET. ADO.NET can be used to develop any type of .NET application. If you further notice all the classes are prefixed with the word SQL, it means these classes are going to interact with only the SQL Server database. This ADO.NET Tutorial provides basic and advanced concepts of ADO.NET which are designed for both beginners as well as professionals developers who want to learn ADO.NET step by step from scratch. It is a part of the .Net Framework which is used to establish a connection between the .NET Application and data sources. These classes are called Provider classes and these classes are responsible for interacting with the database and performing the CRUD operation. The point that you need to remember is depending on the provider, the ADO.NET objects (Connection, Command, DataReader, and DataAdapter) have a different prefix as shown below. Fully-Managed ADO.NET Providers. What is .NET Data Providers? Web Pages Tutorial If you are new to ASP.NET, Web Pages is a perfect place to start. ASP.NET Web Form Applications Windows Applications ASP.NET MVC Application Console Applications ASP.NET Web API Applications Components of ADO.NET Components are designed for data manipulation and faster data access. So, if a .NET application needs to retrieve data or to do some insert, update, and delete operations from or to a database, then the .NET application needs to Connect to the Database Prepare an SQL Command Execute the Command Retrieve the results and display them in the application And this is possible with the help of .NET Data Providers.

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