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Last updated details: September 14, 2020 SQL Server is a relatively leading database management system by Microsoft. This course teaches you basic to promote SQL Server-level concepts What do I need to know? The online guide is designed for beginners with little or no SQL Server experience. But the knowledge of SQL is plus an introductory syllabus training course what is SQL Server? Introduction, History, Releases, Training Instances How to Download and Install SQL Server Architecture SQL Server Tutorial Explained: Pipes Named, Optimizer, Training Store Manager SQL Server Management Studio (SSMS): What is, install, advanced versions and SQL Server database tutorial things: create, modify, download, restore SQL Server tutorial Data types: Varchar, Numeric, date-time [T-SQL Samples] SQL Server training / Declare, define, select, general, local [TSQL examples] SQL Training Server table : Create, modify, release [T-SQL Samples] Master Key SQL Server Tutorial: T-SQL Samples TUTORIAL SQL Server Foreign Key: T-SQL SQL Sql Server training examples if... Another statement: T-SQL Example Training Statement Statement in SQL Server: T-SQL Example Training SQL Server SUBSTRING() Function: T-SQL Sample SQL Server Training Joins Training: Internal, Left, Right, OUTER Training Create Login, User, Assign Permission: SQL Server Training Training Oracle vs SQL Server: Key Differences SSIS Training Training beginners: What is, architecture, best practices to know! Tutorial Top 40 SSIS Interview Questions and Sql Server Reporting Services (SSRS) Training For Beginners Training Top 20 SSRS Interview Questions & Questions Answers Guide to SSAS Training: Architecture, Cube, Types (Tabular vs. Multidimensional) Training Top 50 SQL Server Interview Questions & SQL Server Training Answers for Beginner PDF This Microsoft SQL Server tutorial is written for those looking to learn how to create solutions with Microsoft SQL Server 2012 but I have no prior knowledge of it... you may have had exposure to other database management systems (DBMSs), such as MySQL, Oracle, or Microsoft Access, but SQL Server uses different interfaces and has a different way of working than most competitors. The goal of this tutorial is to get you quickly up to the level at which you are developing skillfully with SQL Server 2012. This tutorial is specifically dedicated to beginners and those who at this time only want to use SQL Server 2012. This guidance may be useful for understanding the basics of other database management systems on the market, especially when working with T-SQL. Many DBMSs use SQL in the ANSI standard, so switching from SQL Server to Oracle, Sybase, etc. after reading this tutorial will be much easier. This tutorial is for those people who see themselves as developers, database administrators, or a mixture of both but have not yet tread this path with SQL Server 2012. This tutorial is for readers who want to learn and in a free version of SQL Server 2012, SQL Server 2012 Express, or a trial or authorized version of SQL Server 2012. Whether you have no knowledge of databases, or have knowledge of desktop databases such as MS Access, or even come from server-based backgrounds such as Oracle, this tutorial will provide you with the insight to get started with SQL Server 2012. Right from the beginning, your basic knowledge will be expanded, and you will soon switch from perceived beginner through a qualified and professional key. The purpose of this tutorial is to serve a wide range of developers, from those who prefer to use the graphical interface for as much work as possible for those who want to be more adept at using sql server 2012 programming language, T-SQL. When practical, any method of using SQL Server 2012 demonstrates, explained, and extended so that you can evaluate what works best in your situation. You can also find a chapter on how to work with using Excel, .NET, and Java and integrate them with T-SQL. There are many examples within each action tutorial along with details about securing your data. You will also learn the best way to complete a task and even how to make the right decision when there are two or more choices that can be made. Once you reach the end of this tutorial, you can design and create solid and reliable database solutions with skill and skill. SQL Server Management Studio table of contents is a workstation component tool that will be installed if a workstation component is selected in the installation steps. This allows you to connect and manage your SQL Server from a graphical interface instead of using the command line. To connect to a remote instance of SQL Server, you will need this or similar software. It is used by managers, developers, testers, etc. The following methods are used to open SQL Server Management Studio. First method to start... all programs... MS SQL Server 2012... SQL Server Management Studio A second method to go run and type SQLWB (for version 2005) SSMS (for 2008 and later). Then click Enter. SQL Server Management Studio will open as shown in the following image in each of the methods above. Here is the detailed information about our SQL Server 2012 guidance. Please note that these videos are available under all our product versions: online download, DVD and SQL Server unlimited training. 1. Installing SQL Server 2012 in this training demo in SQL Server 2012, we start by going through the hardware and software requirements for installing SQL Server 2012. This includes things like CPU, operating system, RAM, and hard disk information. Additionally, you must also have the .NET framework 3.5 and IE 7.0.1 before you can move on. More information is available from a location on the Microsoft website. For the purposes of this SQL Server 2012 tutorial, we are going to use 3 files for installing SQL Server 2012. We then run Setup.exe, which will start the SQL Server Setup Center. Before installing any software, you should make sure that installation support rules and files are installed. Another way to think about it is prerequisites for installing SQL. Next we are going to select a set of options including standalone sql installation 2012, selecting a feature like database engine, SSIS, administrative tools, authentication options, security role consideration, data and log file location. We emphasize the best practices used by the IT industry and then continue with the video guide in the installation process. In the end, a Setup log file is created that includes all the installation information. This document must be stored in a secure location for future reference. After you finish installing SQL 2012, you can use SQL Server 2012 Management Studio (SSMS) and make sure that the installation process went smoothly. Additionally, you can test the MS SQL services by using SQL Configuration Manager 2012. 2. SQL Server 2012 Configuration Manager in this video guide on MS SQL 2012, we are going to cover SQL Configuration Manager 2012. It combines three utilities including Client Network Utility, Server Network Utility, and Service Manager. By using SQL Server Configuration Manager you can stop, start, pause, and resume services in SQL Server 2012. You can also choose to start SQL services automatically or manually. You can finally use custom properties to fine-tune these database services. Next we cover how to change the Windows account under which SQL Server services should run. Microsoft best practices are to use a domain account as opposed to using a local system account or network service. Next in SQL Server 2012 training, we switch to configuring network protocols including shared memory, TCP/IP, and name pipes for SQL Server 2012. We emphasize these practices, including changing the default port 1433 that SQL Server listens to. To avoid communication issues between the server and the client, you want to make sure that the network protocol between the server and the original client is the same. The last item we mention is the alias that can be used instead of an IP address to connect to an SQL 2012 database server. 3. Creating database objects in SQL Server 2012 in this SQL 2012 training, we are going to show you how to create a database and table in SQL Server 2012. We use two different ways to do this, SQL Server Management Studio and SQL Transact also known as TSQL. With SSMS, we create a school database and pay particular attention to file locations and auto-growth parameters for MSSQL 2012. We move on and create a human resources database by using the SQL command and enter specific values for data and log locations. Then we go ahead and create SQL Server 2012 tables consisting of columns and rows. Database Guide discusses important considerations such as data type, field Primary key and foreign key constraints. For the school database, we create a teacher table by using SSMS, and then by using a SQL Server TSQL script to create a student table. Both of these tables contain personal information and will contain fields such as ID, name, contact information, and address. By using Object Explorer in SSMS 2012, we display Microsoft SQL Training to create the first table and also assign a default value for a field. Using the built-in Object Explorer feature, you can view the data by using the SQL Select command. We continue to move forward and use TSQL code to create the second table that will prepare the student's details. Next to the Create Table command, we highlight constraint information for a primary key, check constraints and unique constraints in SQL Server 2012. Constraints help you keep your types and other error database clean. We end the video in MS SQL 2012 by viewing how to add data to a table by using the Insert SQL command and test the data by using the SQL Select command. I am a new DBA using SQL Server. The SQL demos and scripts from your online training are quite useful in my day-to-day projects. Thanks, Cash, for connecting this. Best regards, Tom Chicago 4. TSQL commands like Sequence and CONCAT in MS SQL 2012 in this video training we cover new features in SQL Server 2012 from a TSQL perspective. We start new transact SQL features in 2012 with sequence. A sequence object is an object that provides functionality similar to an identity column (AutoNumber). You can use the sequence object with more than one table that is not possible on an identity object. This option is useful when you have parent-child tables and want to know the value before adding child records. Then we go over new date and time functions in SQL Server 2012 training. We demonstrate date from particles, time from particles and EOMONTH functions. A brand new OFFSET statement in MS SQL 2012 is discussed with the Northwind database, here you can skip the rows from your full set of records by an offset value. New logical functions select select and select IIF (within if) covered during SQL Server 2012 tutorial by DBA SQL Senior. For an error in SQL Server 2012 mode, the RAISERROR command is compared to a new feature to throw an SQL statement. Select a CONCAT function that is displayed in SQL 2012demo, and this function is especially useful with names. Using the FORMAT command with the GETDATE() function is useful when working with different date formats. Finally the PARSE() function is discussed for data type handling in SQL 2012. 5. SQL Server 2012 database relationships We start this microsoft sql server training session by covering terms like RDBMS, entity, field, ERD, primary key (PK), foreign key, and SQL syndicates. There are three types of database relationships in SQL Server 2012. One to one, one to many and many to many relationships. We go through each of these patterned relationships in SQL Server 2012. To better explain this, we show you a demo of customer tables and orders and discuss 1 - Many relationships between them. We also cover the Database Diagram feature in SQL 2012 which can help you understand the relationships between tables. We wrap this topic by going through many - many relationships that are typically implemented by using a junction table. The rest of the video tutorial is in a school database with students, teachers, departments, and classes in SQL Server 2012. We emphasize in this SQL training, the primary key, and the foreign keys between all these tables. With SSMS, we use TSQL to create the tables mentioned above and also populate them with data. Setting primary and foreign keys is a requirement before you can set up the relationships in SQL 2012 and we demonstrate that using SSMS and TSQL. We'll also need the Students_Classes table to bring data from student and category tables. A sub-movie can be about creating a table and adding data to it. 6. What is SQL Server 2012 Management Studio? Here we are going to cover SQL Server Management Studio or SSMS in SQL 2012. This is the central location for database management and development in MS SQL 2012. With SSMS you can transact SQL, create and modify stored procedures, views, tables, and also access Template Explorer in MS 2012. To start SSMS, you can use Start > All Programs or the command-line utility. In addition to the database engine, you can also use SSMS to connect to other services such as SQL Server Reporting Service (SSRS), SQL Server Integration Service (SSIS), and SQL Analytics Services (SSAS). We start the SQL 2012 tutorial lesson with the File and Edit menus. Using the File menu, you can connect to the Hennes services. Under the View menu option, you can connect to Object Explorer, registered servers, and a row of other essential interfaces in SQL Server 2012. One browser template option is a good way to learn TSQL especially if you are new to SQL Server 2012. Under the Tools menu, you will find SQL Server 2012 Profiler and Database Engine Tuning Advisor (DETA). Both tools can be lifesaving when you try to resolve slow queries and a problematic stored procedure. With the registered servers, you can easily group your SQL Server 2012 servers into manufacturing, development, and temporary storage. There are many tabs in SSMS 2012, however important are: Database, Security, Server Objects, Management, and SQL Agent. Our SQL Server 2012 tutorial demo includes looking at the tables and is currently in a database. SQL training and SQL Server 2012 scripts told me exactly what I needed to know and helped me get the job done. Didn't spend days reading about it, followed and just did it! Amazing practice. Zack - New York 7. Introduction to SQL Transact (TSQL)? TSQL or Transact SQL is a powerful database language in SQL Server 2012. It includes DML (data handling language) and DDL (data definition language). We are going to look at the Northwind database and use SQL Select, SQL Insert, SQL Delete and SQL Statements. SQL Select is the most common database command. We cover the syntax for a SELECT statement in SQL 2012 with some examples in the Customers Table Orders table by using SQL Management Studio (SSMS). You can limit the number of columns and rows by using a WHERE clause in addition to sorting them in ascending order. Then we continue to SQL operators in SQL Server 2012 including =, < (less than) and > (greater than) plus logical operators like And/Or. Adding an SQL command is used to add new records to a table in SQL 2012. The syntax is INSERT INTO and we show you how to add data to the Contractors table. The Guide uses SELECT INTO to make a copy of the MS SQL 2012 table. By using a subselect query or subquery, you have the ability to add multiple records from another table in SQL Server 2012. The DELETE SQL command is used to remove data from a table. NOTE: Do not forget to use the WHERE section otherwise all lines will end. By subselecting, you can delete many rows from another table. We demonstrate using transactions in SQL Server 2012 as in Begin TRAN... COMMIT in conjunction with the DELETE SQL command. Finally we go through an SQL update query which can be used to update data in the SQL Server table. Note (Use subquery w/delete on YouTube and video Sept) 8. By using joins in SQL Server 2012 SQL Server 2012 SQL Join makes it easy to bring data together from different tables. In this SQL Server 2012 training, we go over basic concepts like primary key, foreign key, internal and external joins in SQL Server 2012. An inner join is used to pull matching data from two tables; this concept is marked with venn diagrams. We do a demo on an internal join by using customers and order tables in SQL Server 2012. Both flavors of SQL syntax for joins are also discussed followed by another demo in the school database. Next we cover external joins in SQL Server training, which help you find incompatible data between tables in SQL Server 2012. Both types of outer joins are left join and join out to the right. With a left join in SQL 2012, we find customers who haven't bought our super products yet using the WHERE Orders.Customerid=NULL section. Using the school database, we find out which department hasn't offered lessons yet. We finish this SQL Server 2012 tutorial by going through SQL Views. These are virtual tables that can help simplify complex code, control security, and optimize your database code. Using the school database, we create a view between classes and class tables in SQL Server 2012. 9. Security application in SQL Server there are many layers of security in SQL Server including physical layer, surface area, object access etc. We start this SQL Server 2012 training and discuss terminology as administrators, roles, Securables, and Microsoft recommended best practices. This SQL 2012 tutorial is a heavy demo in which we first create a SQL Server logon and then use an SQL database by using SSMS. The guide also demonstrates how to take the same actions using TSQL with commands like creating a user, logon and creating. We also show you how to use security catalog views that include sys.server_principals sys.database_principals. We switch to managing roles and groups in SQL Server 2012 which is the preferred method of controlling security in MS SQL 2012. The different server and database roles are defined and explained. We add Mary to the sysadmin role by using the new MS SQL 2012 ALTER SERVER command. Role creation demonstrates using the SSMS and TSQL statements with the SQL CREATE ROLE command. We continue to add members to this role and make sure it works through security catalog views. 10. New features like database included, FileTable... This video tutorial discusses new features in SQL Server 2012. We start with an included database that is a special db that isolates other SQL Server databases. This issue addresses the issue of migrating a database from one SQL Server to another and because of issues like orphan user, SQL jobs, and other server-related objects. The next thing we'll discuss is SQL Server 2012 FileTable, which is a specific table that stores file information and a network drive directory. This option is built on FILESTREAM technology from MS SQL 2008. With FileTable, you can access file-level metadata information that can be helpful for applications that fall into input and output files with SQL Server. Then we switch to the ColumnStore index built specifically for high performance in the MSSQL data warehouse system. This uses column-level information to store index data and is highly compressed. Migrating SQL Server 2012 db to an Azure SQL cloud database has been an issue in the past. With this new release from Microsoft, you can do so from SQL Server Management Studio. We finish by alwayson discussion which is an improvement on database mirroring and clustering service for high availability. Available.

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