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Querying microsoft sql server pdf

In this article we will discuss all effective ways to connect to a Microsoft SQL Server and run SQL queries from PowerShell. There are many ways how you can work with SQL Server using PowerShell, and it is easy to get confused when you study lots of articles in the Web, since all of them describe different methods, and even an experienced administrator may have questions. T-SQL Queries in PowerShell Using System.Data.OleDb Since PowerShell can access .NET Framework classes, you can use classes from System.Data.OleDb to execute T-SQL queries. Here is a sample PowerShell script to connect SQL Server using System.Data.OleDb class. Let's run a SELECT query against a table in the MS SQL database: \$dataSource = "lcn-sql01testdb" \$database = "master" \$sql = "SELECT * FROM sysdatabases" \$auth = "Integrated Security=SSPI;" \$connectionString = "Provider=sqloledb;" + "Data Source=\$dataSource;" + "Initial Catalog=\$database;" + "Auth: \$connection = New-Object System.Data.OleDb.OleDbConnection \$connectionString \$command = New-Object System.Data.OleDb.OleDbCommand \$sql,\$connection \$connection.Open() \$adaper = New-Object System.Data.OleDb.OleDbDataAdapter \$command \$dataset = New-Object System.Data.DataSet [void]\$adaper.Fill(\$dataset) \$connection.Close() \$rows = \$dataset.Tables | Select-Object -Expand Rows echo \$rows Here is an example of a PowerShell script to execute an INSERT/UPDATE/DELETE query against MSSQL database: \$dataSource = "lcn-sql01testdb" \$database = "test" \$sql = "insert into test_table (test_col) Values ('test')" \$auth = "Integrated Security=SSPI;" \$connectionString = "Provider=sqloledb;" + "Data Source=\$dataSource;" + "Initial Catalog=\$database;" + "Auth: \$connection = New-Object System.Data.OleDb.OleDbConnection \$connectionString \$command = New-Object System.Data.OleDb.OleDbCommand \$sql,\$connection \$connection.Open() \$command.CommandText = "Test" \$rowsAffected = \$command.ExecuteNonQuery() The \$rowsAffected variable contains the number of added or changed rows. To run an update or delete query, just change the line of the SQL query in the \$sql variable. Running SQL Query in PowerShell Using System.Data.SqlClient Class To access MS SQL Server from PowerShell, you can use another built-in .NET class – System.Data.SqlClient. Here is an example of a SELECT query in a PowerShell script with SqlClient: \$server = "lcn-sql01testdb" \$database = "Test" \$sql = "select * from test_table" \$SqlConnection = New-Object System.Data.SqlClient.SqlConnection \$ConnectionString = "Server=\$server;Database=\$database;Integrated Security=True" \$SqlCmd = New-Object System.Data.SqlClient.SqlCommand \$SqlCmd.CommandText = \$sql \$SqlCmd.Connection = \$SqlConnection \$SqlAdapter.SelectCommand = \$SqlCmd \$DataSet = \$SqlAdapter.Fill(\$DataSet) \$DataSet.Tables[0] An example of an INSERT/DELETE/UPDATE query: \$server = "lcn-sql01testdb" \$database = "Test" \$sql = "insert into test_table (test_col) Values ('123456')" \$SqlConnection = New-Object System.Data.SqlClient.SqlConnection \$ConnectionString = "Server=\$server;Database=\$database;Integrated Security=True" \$SqlCmd = New-Object System.Data.SqlClient.SqlCommand \$SqlCmd.CommandText = \$sql \$SqlCmd.Connection = \$SqlConnection \$SqlConnection.Open() \$rowsAffected = \$SqlCmd.ExecuteNonQuery() \$SqlConnection.Close() SQL Query in PowerShell Using SQL Server Management Studio Module To use Microsoft.SqlServer.Smo (SMO) classes, SQL Server Management Studio must be installed on your computer. Load the SMO module, create a new server object and then run a SELECT query: [System.Reflection.Assembly]::LoadWithPartialName("Microsoft.SqlServer.Smo"); \$serverInstance = New-Object ("Microsoft.SqlServer.Management.Smo.Server") "\$serverInstance = \$serverInstance.Databases["test"].ExecuteWithResults("select * from test_table") foreach (\$res in \$results.Tables) { \$nbsp;echo \$res } For an insert/update/delete query, run ExecuteNonQuery: \$db = \$serverInstance.Databases["test"] \$db.ExecuteNonQuery("insert into test_table (test_col) Values ('123456')") \$Invoke-Sqlcmd Cmdlet from SQLServer PowerShell Module To use the Invoke-Sqlcmd cmdlet, install the SqlServer module. Run PowerShell with the administrator privileges and execute the command: Install-Module -Name SqlServer (Press Y and then ENTER to accept the installer notifications.) After the installation, you can make sure that the module has been installed correctly by running this command: Get-Module SqlServer -ListAvailable The Invoke-Sqlcmd cmdlet is easier and more intuitive than other ways of connection to an Microsoft SQL Server from PowerShell. Invoke-Sqlcmd uses the same syntax for SELECT and INSERT/UPDATE/DELETE queries. Here is an example of a Select query: Invoke-Sqlcmd -ServerInstance "lcn-sql01testdb" "sp_who" This is an example of an INSERT query: Invoke-Sqlcmd -ServerInstance "lcn-sql01testdb" -Database "test1" -Query "insert into test_table (test_col) Values ('123321')" Unlike other methods, a query in the Invoke-Sqlcmd is always set to the -Query parameter. Which SQL connection option should you use? A choice between oledb/smox/Sqlclient/Invoke-Sqlcmd is based on the task and the environment where you are going to run a PowerShell script. If you want to deploy a script to multiple servers (for example, your script collects monitoring data locally), using SMO or SqlServer PowerShell module (Invoke-Sqlcmd) is not reasonable, since you will have to install extra packages on the remote hosts to run the script, and it is better to avoid it if there are a lot of servers. In its turn, the SqlServer for PowerShell module offers many other cmdlets to work with your SQL Server (you can learn more here). The module contains more commands to manage SQL Server itself. If your script will perform non-administrative tasks (such as for some part of business logic, for example), it is worth to use System.Data.SqlClient/SMO, as they provide more convenient development tools. An advantage of OleDb is that it can work not only with an SQL Server, but also with Access/Oracle/Firebird/Interbase, querying microsoft sql server with transact-sql querying microsoft sql server 2019, querying microsoft sql server 2012 pdf, querying microsoft sql server 2016, querying microsoft sql server with transact-sql free download, querying microsoft sql server with transact-sql download, querying microsoft sql server course, querying microsoft sql server 2014

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