Quickstart: Use Azure Data Studio to connect and query SQL Server

Άρθρο • 17/01/2023 • 2 λεπτά για ανάγνωση

This quickstart shows how to use Azure Data Studio to connect to SQL Server, and then use Transact-SQL (T-SQL) statements to create the *TutorialDB* used in Azure Data Studio tutorials.

Prerequisites

To complete this quickstart, you need Azure Data Studio, and access to a SQL Server instance.

- Install Azure Data Studio.

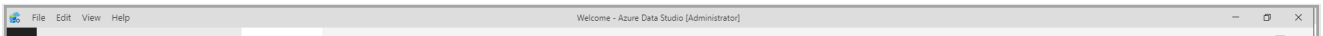
If you don't have access to a SQL Server, select your platform from the following links (make sure you remember your SQL Login and Password!):

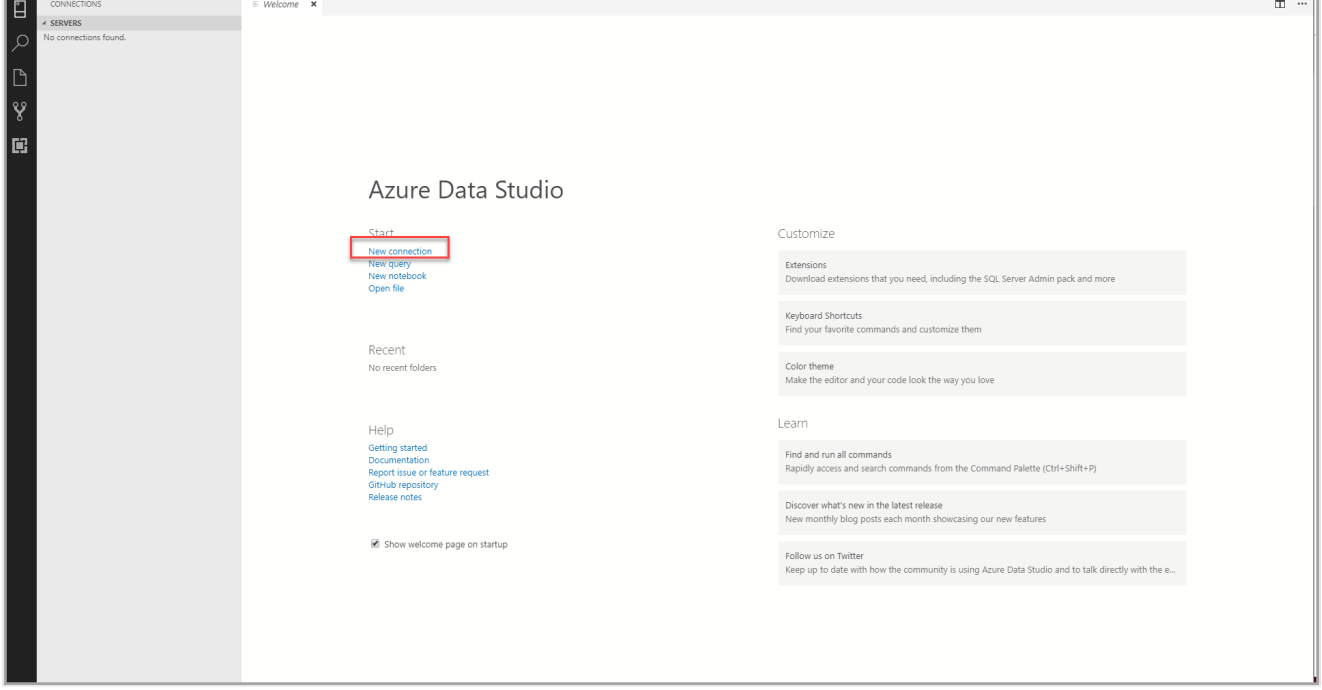
- Windows - Download SQL Server 2022 Developer Edition
- Linux - Download SQL Server 2022 in a container
- Linux - Download SQL Server 2022 Developer Edition - You only need to follow the steps up to *Create and Query Data*.

Connect to a SQL Server

1. Start **Azure Data Studio**.

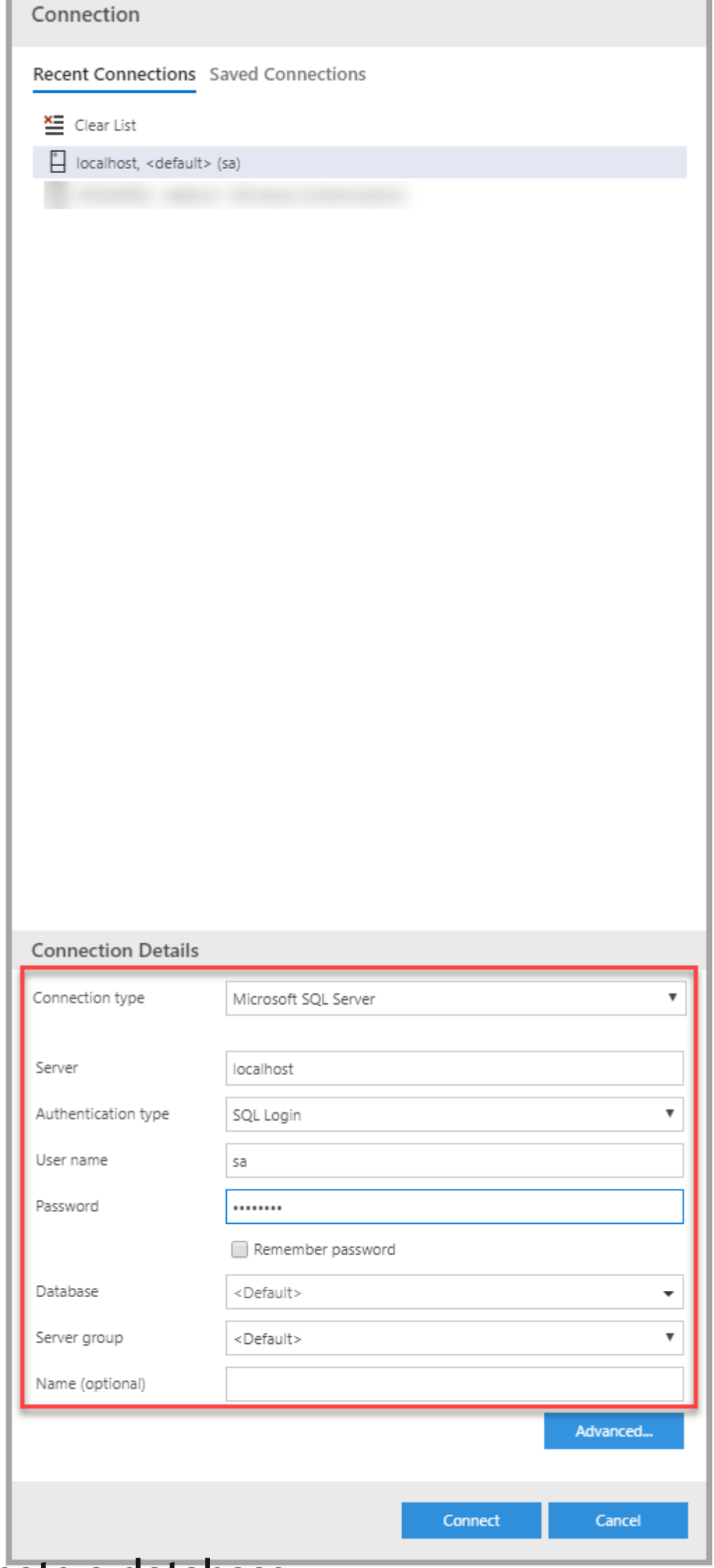
2. The first time you run Azure Data Studio the **Welcome** page should open. If you don't see the **Welcome** page, select **Help** > **Welcome**. Select **New Connection** to open the **Connection** pane:





3. This article uses *SQL Login*, but *Windows Authentication* is supported. Fill in the fields as follows:

    - **Server Name:** Enter server name here. For example, localhost.
    - **Authentication Type:** SQL Login
    - **User name:** User name for the SQL Server
    - **Password:** Password for the SQL Server
    - **Database Name:** <Default>
    - **Server Group:** <Default>



Create a database

Create a database

The following steps create a database named **TutorialDB**:

1. Right-click on your server, **localhost**, and select **New Query**.

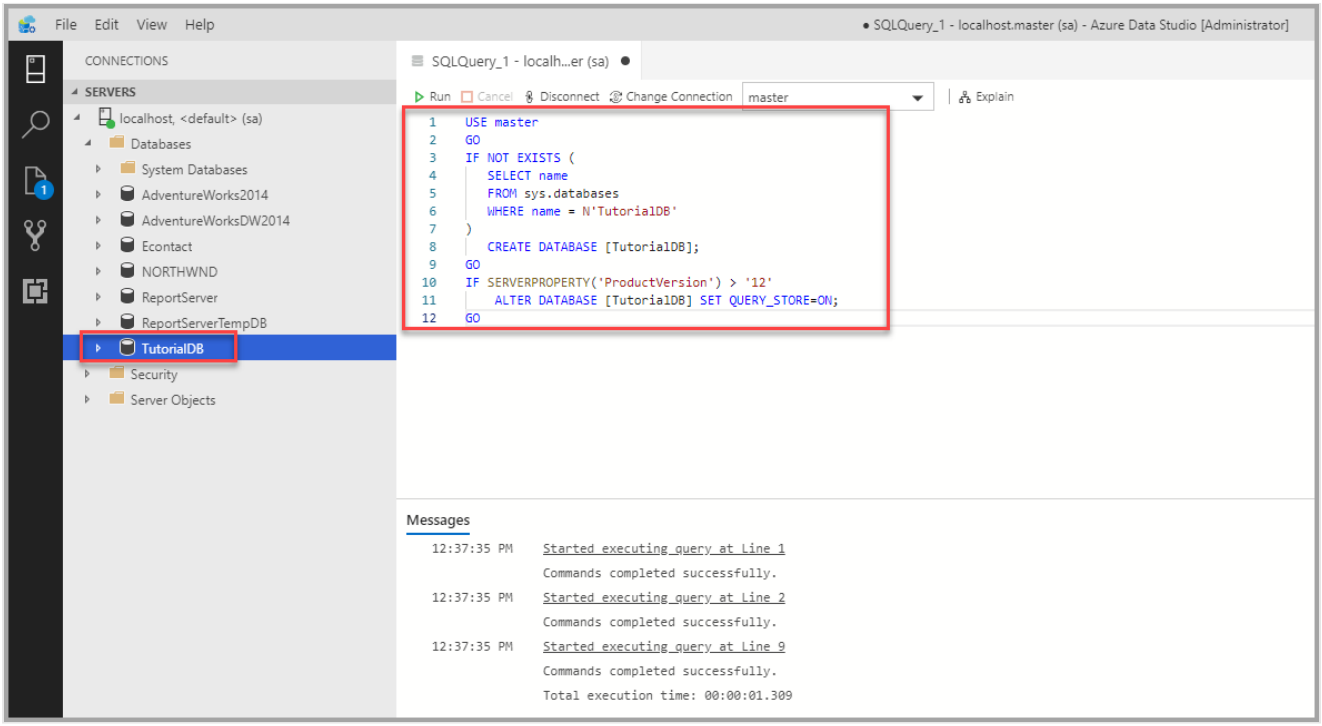
2. Paste the following snippet into the query window: and then select **Run**.

```SQL
USE master;
GO

IF NOT EXISTS (
      SELECT name
      FROM sys.databases
      WHERE name = N'TutorialDB'
      )
   CREATE DATABASE [TutorialDB];
GO

IF SERVERPROPERTY('ProductVersion') > '12'
   ALTER DATABASE [TutorialDB] SET QUERY_STORE = ON;
GO
```

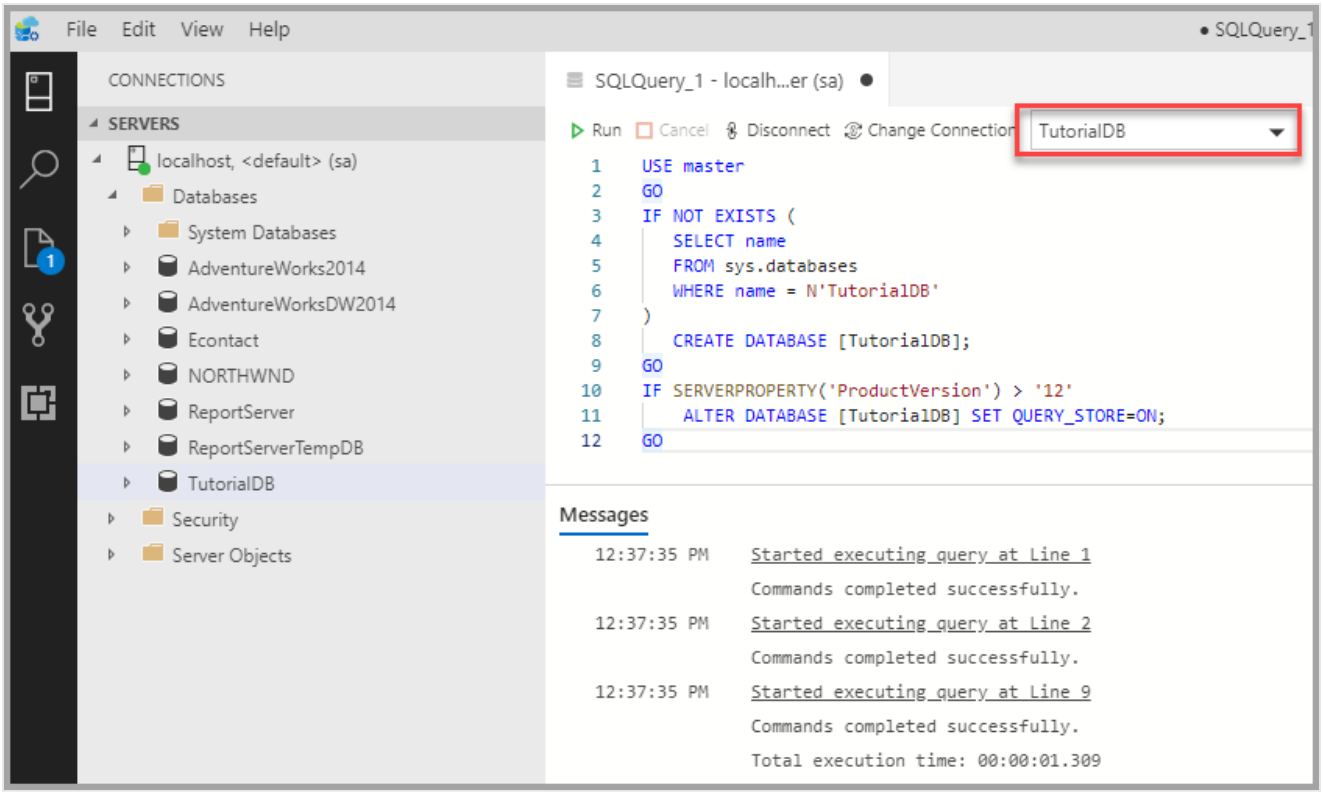
After the query completes, the new **TutorialDB** appears in the list of databases. If you don't see it, right-click the **Databases** node and select **Refresh**.



Create a table

The query editor is still connected to the *master* database, but we want to create a table in the *TutorialDB* database.

1. Change the connection context to **TutorialDB**:



2. Paste the following snippet into the query window and select **Run**:

> **Σημείωση**
>
> You can append this too, or overwrite the previous query in the editor. Note that selecting **Run** executes only the query that is selected. If nothing is selected, selecting **Run** executes all queries in the editor.

SQL

```
-- Create a new table called 'Customers' in schema 'dbo'
-- Drop the table if it already exists
IF OBJECT_ID('dbo.Customers', 'U') IS NOT NULL
   DROP TABLE dbo.Customers;
GO

-- Create the table in the specified schema
CREATE TABLE dbo.Customers (
   CustomerId INT NOT NULL PRIMARY KEY, -- primary key column
   [Name] NVARCHAR(50) NOT NULL,
   [Location] NVARCHAR(50) NOT NULL,
   [Email] NVARCHAR(50) NOT NULL
   );
GO
```

After the query completes, the new **Customers** table appears in the list of tables. You might need to right-click the **TutorialDB** > **Tables** node and select **Refresh**.

Insert rows

Paste the following snippet into the query window and select **Run**:

SQL

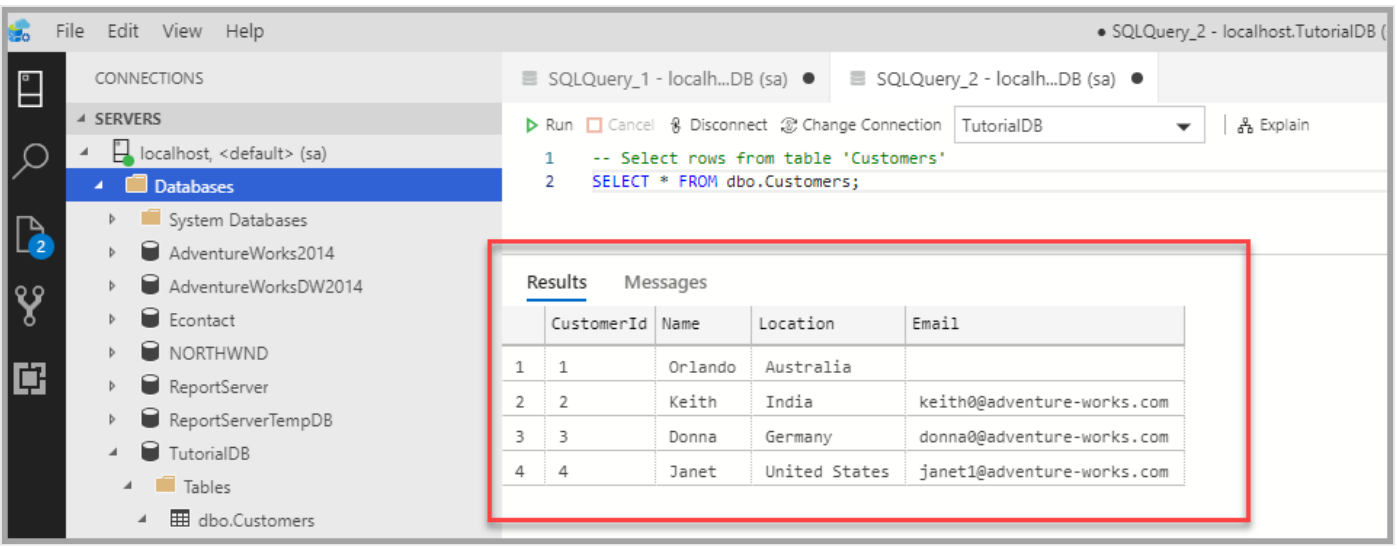
```
-- Insert rows into table 'Customers'
INSERT INTO dbo.Customers (
   [CustomerId],
   [Name],
   [Location],
   [Email]
)
VALUES
   (1, N'Orlando', N'Australia', N''),
   (2, N'Keith', N'India', N'keith0@adventure-works.com'),
   (3, N'Donna', N'Germany', N'donna0@adventure-works.com'),
   (4, N'Janet', N'United States', N'janet1@adventure-works.com')
GO
```

View the data returned by a query

Paste the following snippet into the query window and select **Run**:

SQL

```
-- Select rows from table 'Customers'
SELECT * FROM dbo.Customers;
```



Next steps

Now that you've successfully connected to SQL Server and run a query try out the Code editor tutorial.