

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.

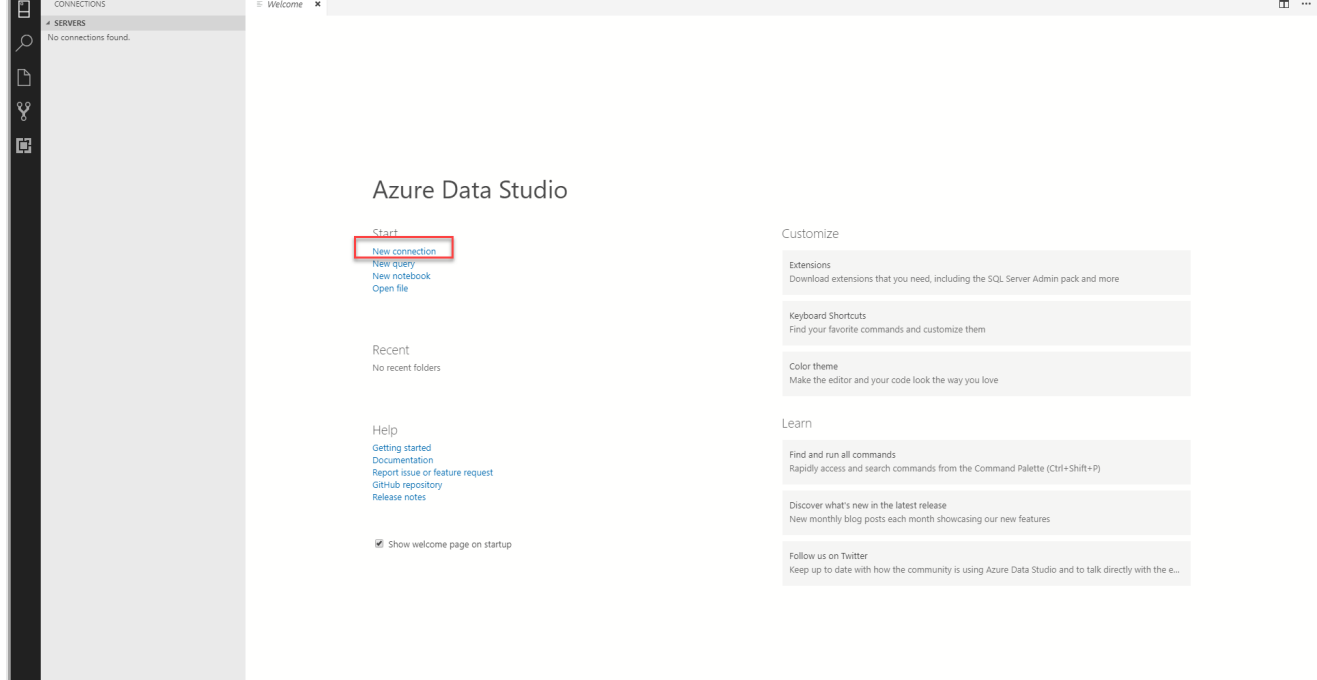
- [Install Azure Data Studio](#).

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>

Connection

Recent Connections Saved Connections



Clear List



localhost, <default> (sa)

Connection Details

Connection type	Microsoft SQL Server ▼
Server	localhost
Authentication type	SQL Login ▼
User name	sa
Password	*****
	<input type="checkbox"/> Remember password
Database	<Default> ▼
Server group	<Default> ▼
Name (optional)	

Advanced...

Connect

Cancel

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**.

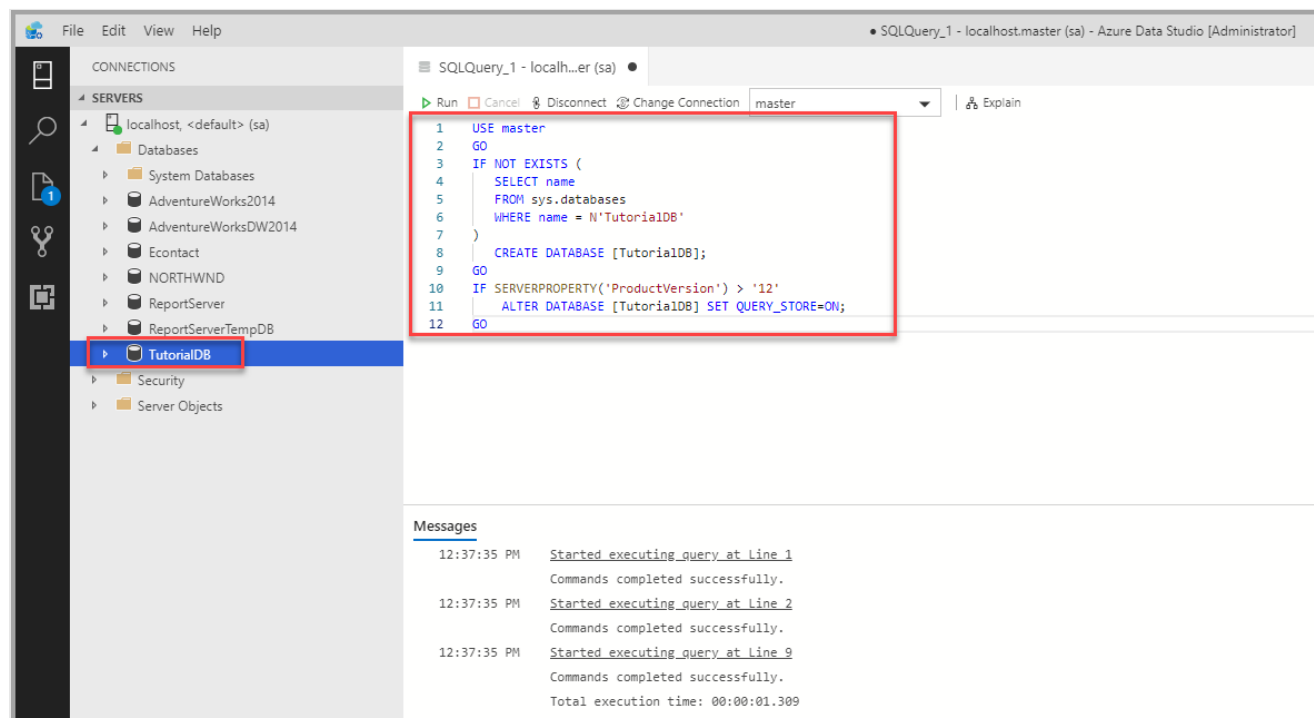
```
SQL

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**.

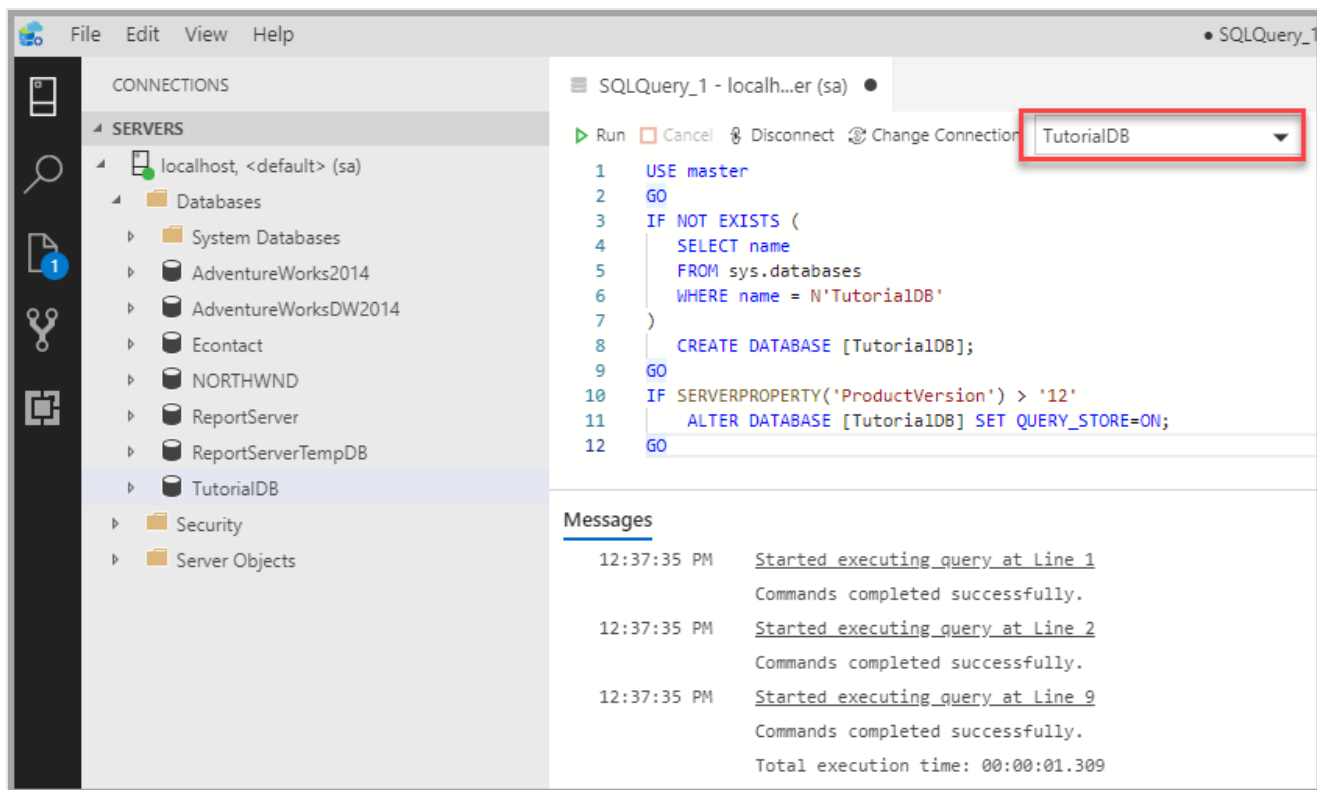


Create a table

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**:

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

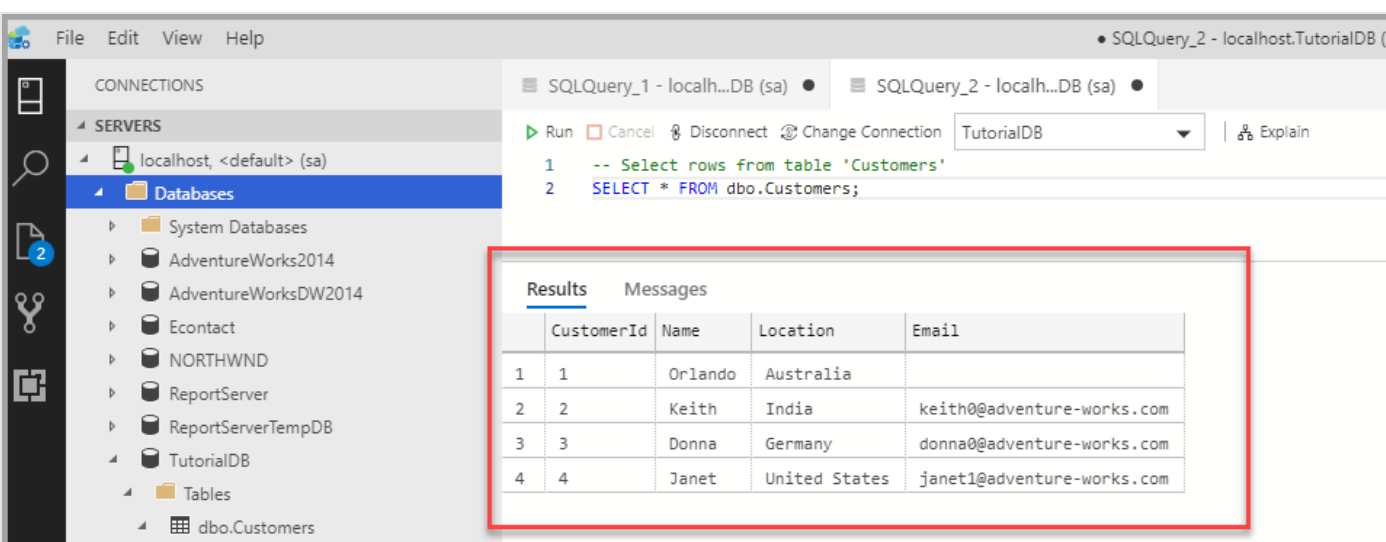
```
-- Insert rows into table 'Customers'
INSERT INTO dbo.Customers (
    [CustomerId],
    [Name],
    [Location],
    [Email]
)
VALUES
    (1, N'Orlando', N'Australia', N''),
    (2, N'Keith', N'India', N'keith0@adventure-works.com'),
    (3, N'Donna', N'Germany', N'donna0@adventure-works.com'),
 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



The screenshot shows the SQL Server Enterprise Manager interface. On the left, the 'CONNECTIONS' pane shows the 'TutorialDB' database selected under 'Databases'. The main pane displays the 'SQLQuery_2 - localhost.TutorialDB (sa)' window. The query editor shows the following SQL:

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

The 'Results' window is open, showing the data returned by the query. The results are displayed in a table with the following columns: CustomerId, Name, Location, and Email.

	CustomerId	Name	Location	Email
1	1	Orlando	Australia	
2	2	Keith	India	keith0@adventure-works.com
3	3	Donna	Germany	donna0@adventure-works.com
4	4	Janet	United States	janet1@adventure-works.com

Next steps

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