# Login to Azure SQL Database in SSMS

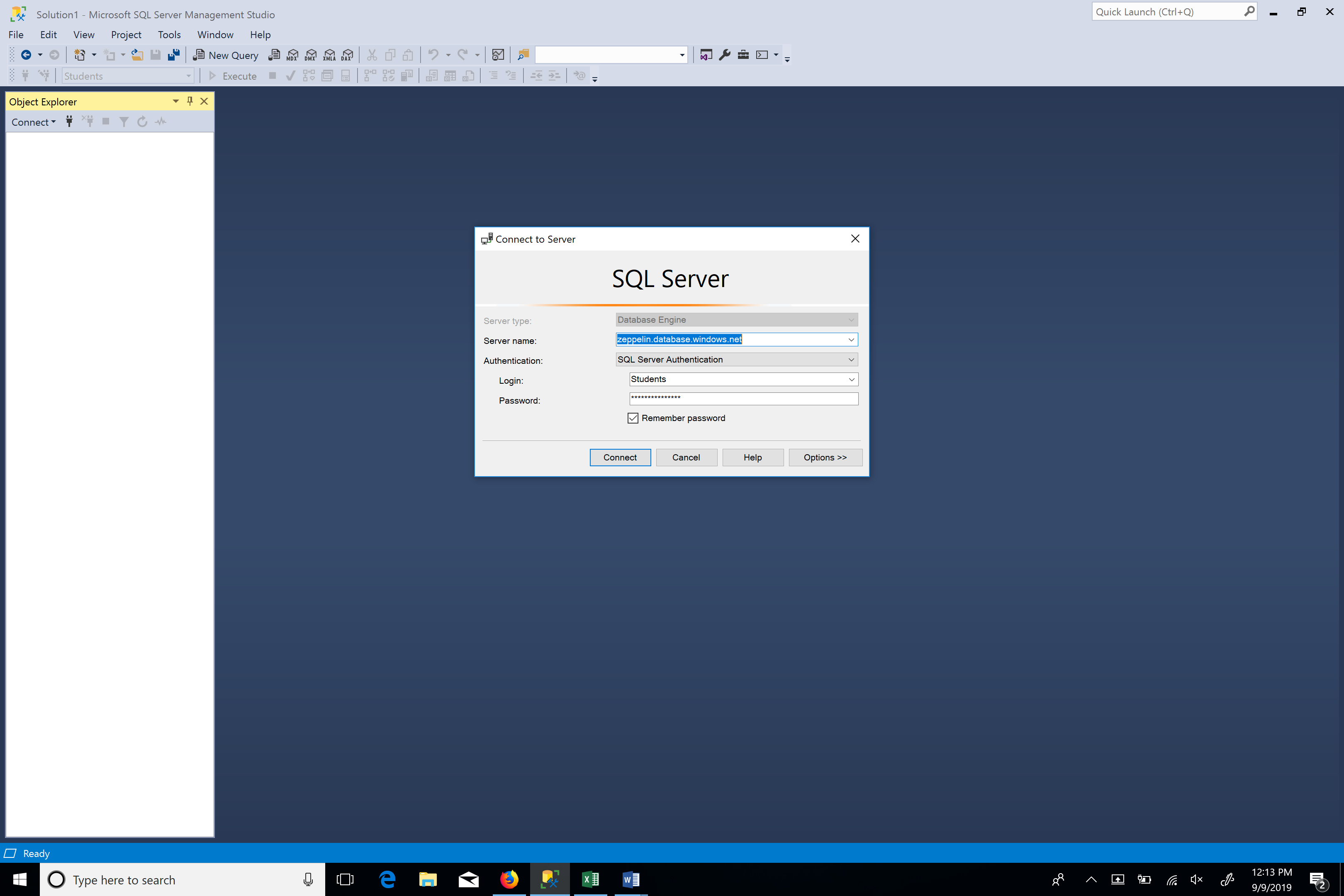
Open SQL Server Management Studio. Please use the following info to log in to the Azure SQL Database.

Server: Zeppelin.database.windows.net

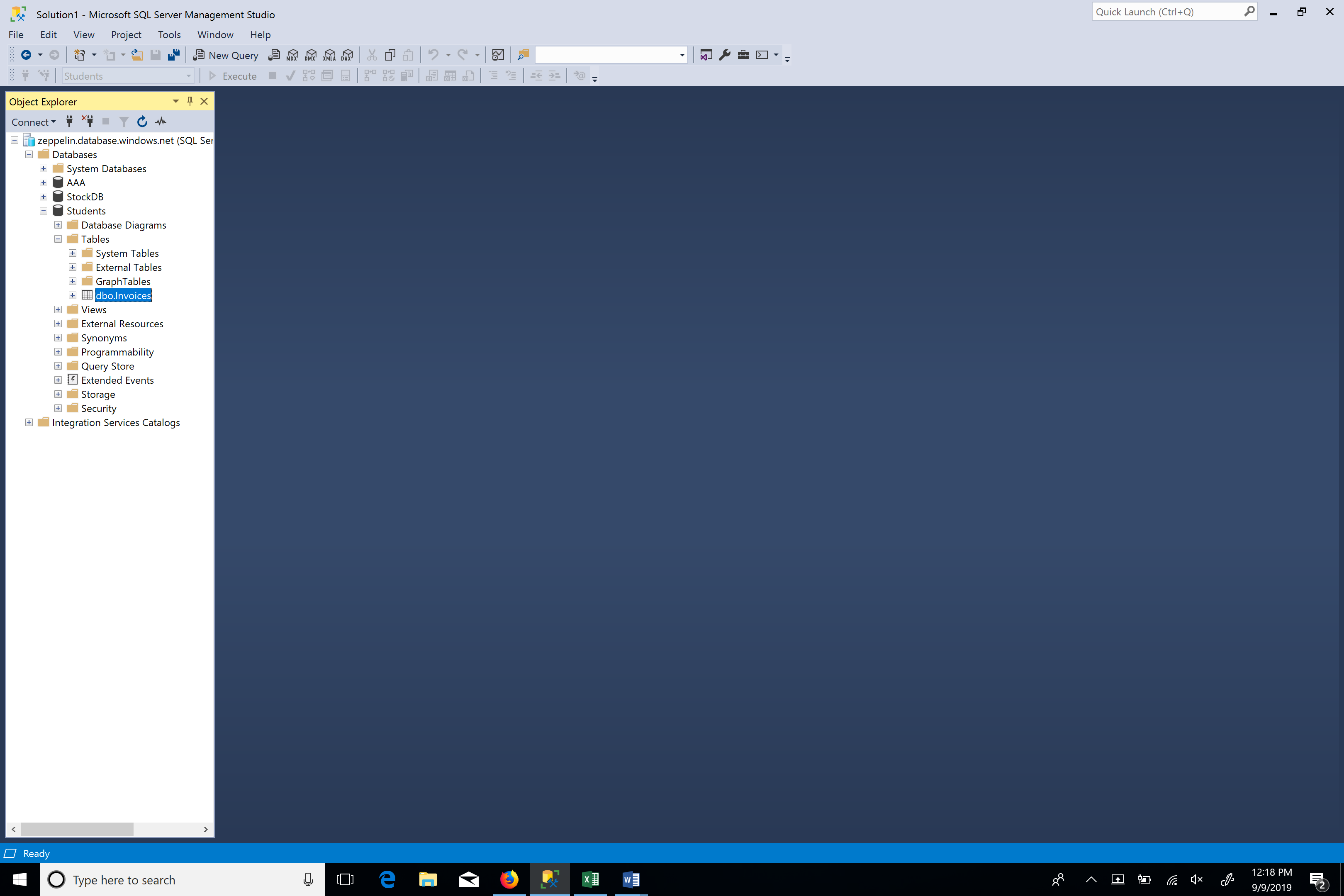
Authentication: SQL Server Authentication

Login: Students

Password: Aggiesareawesome2019



After successfully login, go to the Invoice table under Students database.



# Explore Data

--Have a look at the data.

SELECT TOP 1000 \*

FROM Invoices

-- List average, min, max and standard deviation of invoice amount.

SELECT AVG(InvoiceAmount) AS 'AVG.Invoice Amount',

MAX(InvoiceAmount) AS 'Max.Invoice Amount',

MIN(InvoiceAmount) AS 'Min.Invoice Amount',

STDEV(InvoiceAmount) AS 'STDEV.Invoice Amount'

FROM Invoices

-- List the average monthly invoice amount of each year.

WITH MonthPivot AS

(

SELECT YEAR(InvoiceDate) AS [Year], MONTH(InvoiceDate) AS [Month], AVG(InvoiceAmount) AS [Average Invoice Amount]

FROM Invoices

GROUP BY YEAR(InvoiceDate), MONTH(InvoiceDate)

)

SELECT [YEAR], [1] AS Jan, [2] AS Feb, [3] AS Mar,

[4] AS Apr, [5] AS May, [6] AS Jun, [7] AS Jul,

[8] AS Aug, [9] AS Sep, [10] AS Oct, [11] AS Nov, [12] AS [Dec]

FROM (SELECT [YEAR], [MONTH], [Average Invoice Amount] from MonthPivot) AS src

PIVOT ( AVG([Average Invoice Amount]) FOR [Month] IN ( [1],[2],[3],[4],[5],[6],[7],[8],[9],[10],[11],[12])) AS pvt