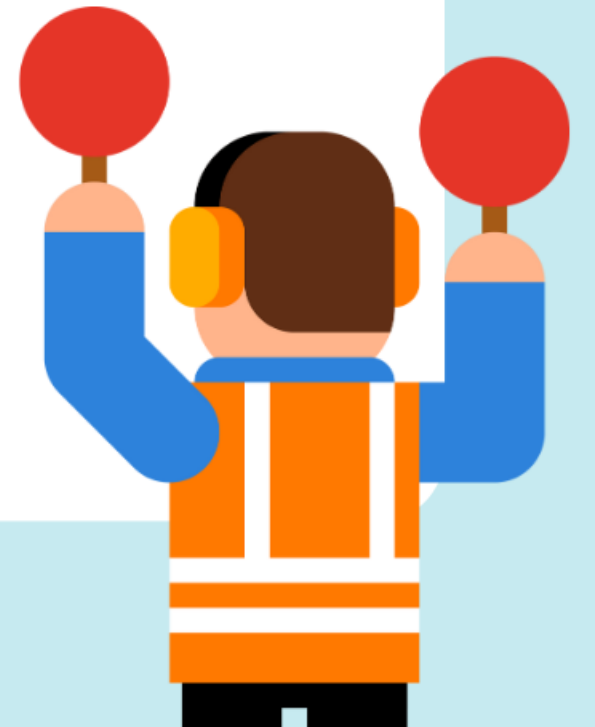




# Intro to Azure Data Studio

Heidi Hasting





# Heidi Hasting

Data Analytics Consultant



@HeidiHasting

[www.heidihasting.com](http://www.heidihasting.com)

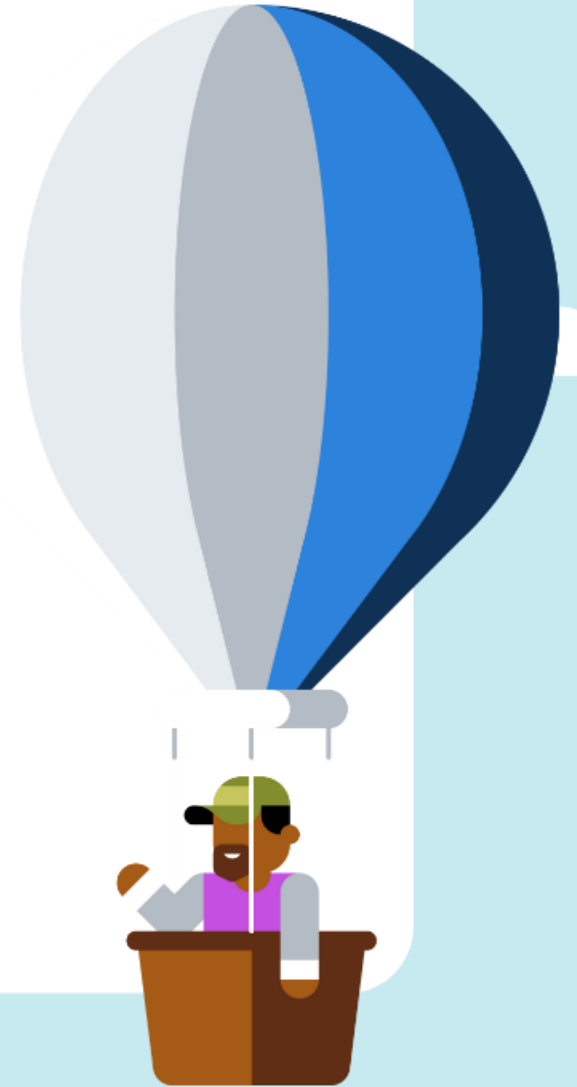
- Business Intelligence Professional formerly software developer.
- Over 10 years experience in Microsoft products

- ALM/DLM enthusiast and Azure DevOps Fan
- Regular attendee at tech events





# Who has heard of Azure Data Studio?



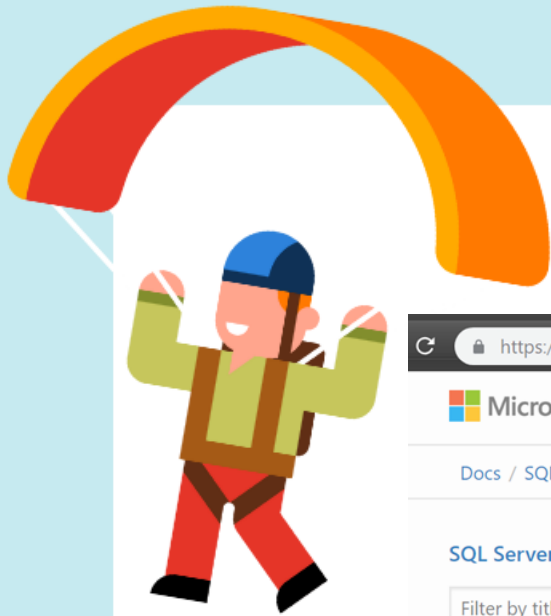


# Agenda

- Overview
- Code snippets
- Widgets
- Extensions
- Notebooks
- Github Copilot



# Where can you get it?



https://docs.microsoft.com/en-us/sql/azure-data-studio/download?view=sql-server-2017

Microsoft | SQL Docs Overview Install Secure Develop Administer Analyze Reference Download SQL Server

Docs / SQL / Tools / Azure Data Studio / Install

SQL Server 2017

Filter by title

- > Security
- > Tools
  - > Azure Data Studio
    - Install**
    - Release notes
  - > Quickstarts
  - > Tutorials
  - > How-to guides
  - > Extensions
  - > Extension Authoring
  - > Resources

## Download and install Azure Data Studio

02/13/2019 • 4 minutes to read • Contributors all

Azure Data Studio runs on Windows, macOS, and Linux.

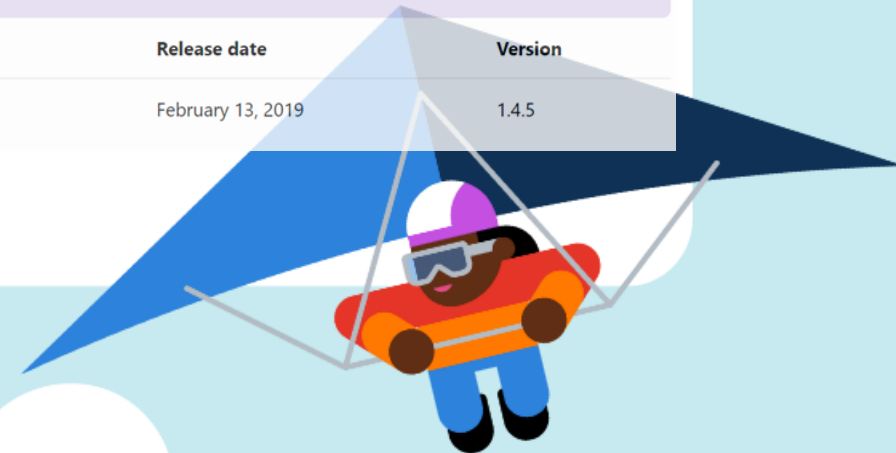
Download and install the latest release, the *February Release*:

Note

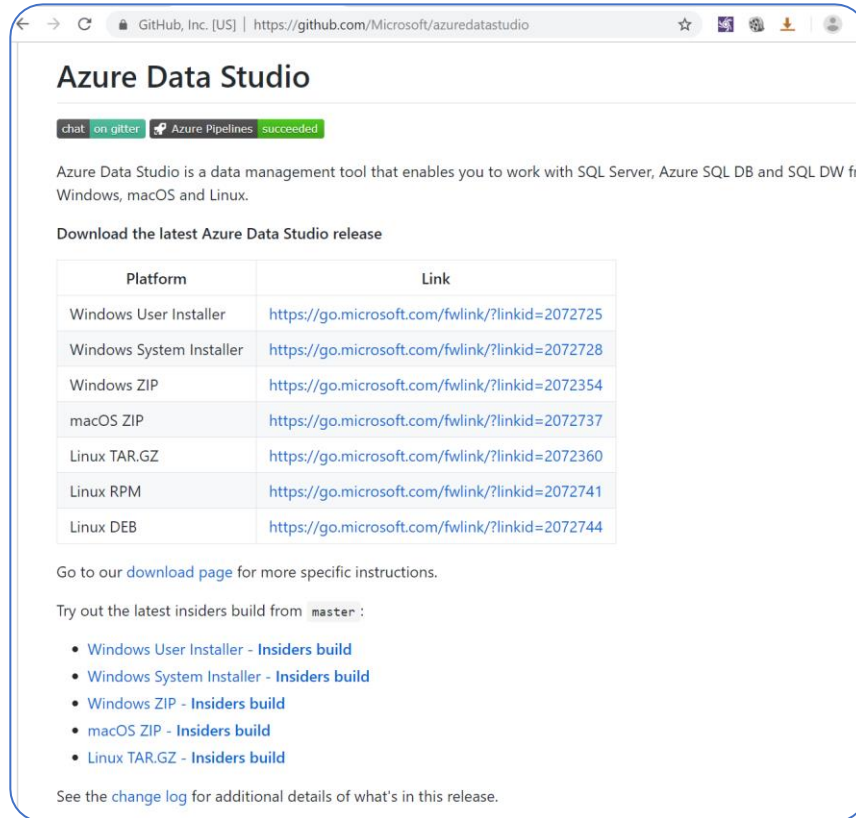
If you're updating from SQL Operations Studio and want to keep your settings, keyboard shortcuts, or code snippets, see [Move user settings](#).

Platform	Download	Release date	Version
Windows	<a href="#">User Installer (recommended)</a> <a href="#">System Installer</a>	February 13, 2019	1.4.5

<https://aka.ms/azuredatstudio>



# Github



A screenshot of the GitHub repository page for Azure Data Studio. The page title is "Azure Data Studio". Below the title, there are buttons for "chat on gitter" and "Azure Pipelines succeeded". The main text describes Azure Data Studio as a data management tool for SQL Server, Azure SQL DB, and SQL DW on Windows, macOS, and Linux. It provides links to download the latest release for various platforms. A table lists the download links for Windows User Installer, Windows System Installer, Windows ZIP, macOS ZIP, Linux TAR.GZ, Linux RPM, and Linux DEB. Below the table, there is a link to the download page for more instructions and a section for the latest insiders build from master, with links for each platform. At the bottom, there is a link to the change log for additional details.

Azure Data Studio is a data management tool that enables you to work with SQL Server, Azure SQL DB and SQL DW from Windows, macOS and Linux.

Download the latest Azure Data Studio release

Platform	Link
Windows User Installer	<a href="https://go.microsoft.com/fwlink/?linkid=2072725">https://go.microsoft.com/fwlink/?linkid=2072725</a>
Windows System Installer	<a href="https://go.microsoft.com/fwlink/?linkid=2072728">https://go.microsoft.com/fwlink/?linkid=2072728</a>
Windows ZIP	<a href="https://go.microsoft.com/fwlink/?linkid=2072354">https://go.microsoft.com/fwlink/?linkid=2072354</a>
macOS ZIP	<a href="https://go.microsoft.com/fwlink/?linkid=2072737">https://go.microsoft.com/fwlink/?linkid=2072737</a>
Linux TAR.GZ	<a href="https://go.microsoft.com/fwlink/?linkid=2072360">https://go.microsoft.com/fwlink/?linkid=2072360</a>
Linux RPM	<a href="https://go.microsoft.com/fwlink/?linkid=2072741">https://go.microsoft.com/fwlink/?linkid=2072741</a>
Linux DEB	<a href="https://go.microsoft.com/fwlink/?linkid=2072744">https://go.microsoft.com/fwlink/?linkid=2072744</a>

Go to our [download page](#) for more specific instructions.

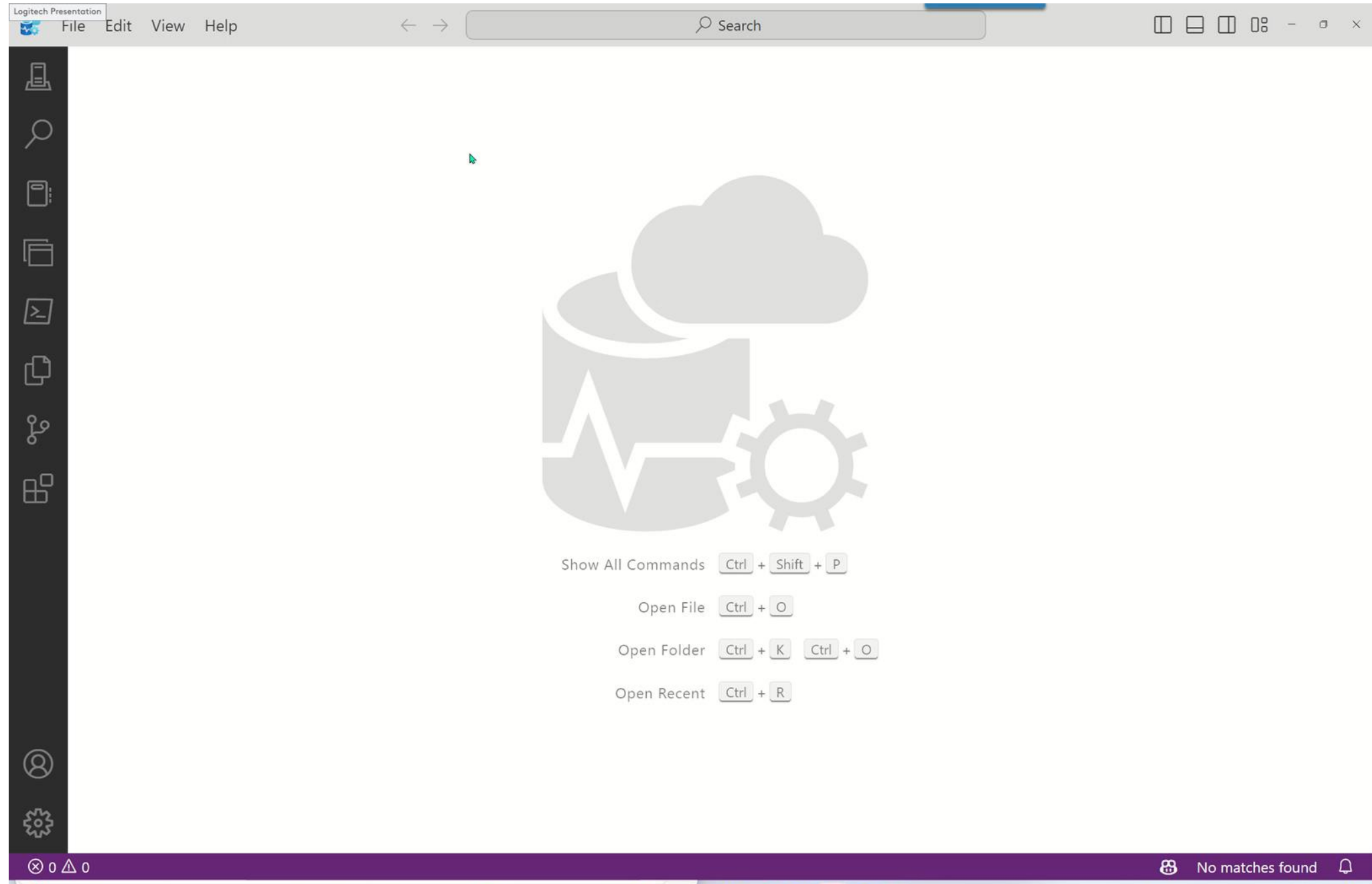
Try out the latest insiders build from `master` :

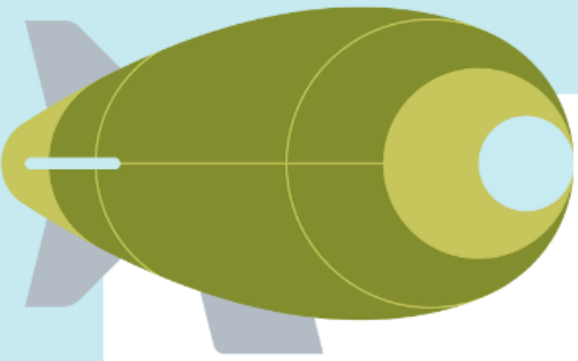
- [Windows User Installer - Insiders build](#)
- [Windows System Installer - Insiders build](#)
- [Windows ZIP - Insiders build](#)
- [macOS ZIP - Insiders build](#)
- [Linux TAR.GZ - Insiders build](#)

See the [change log](#) for additional details of what's in this release.

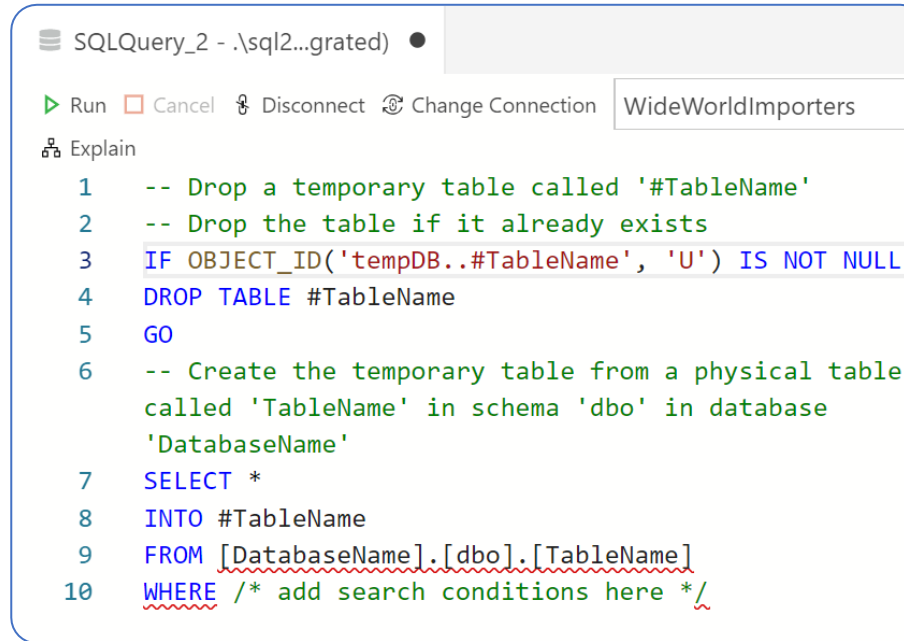
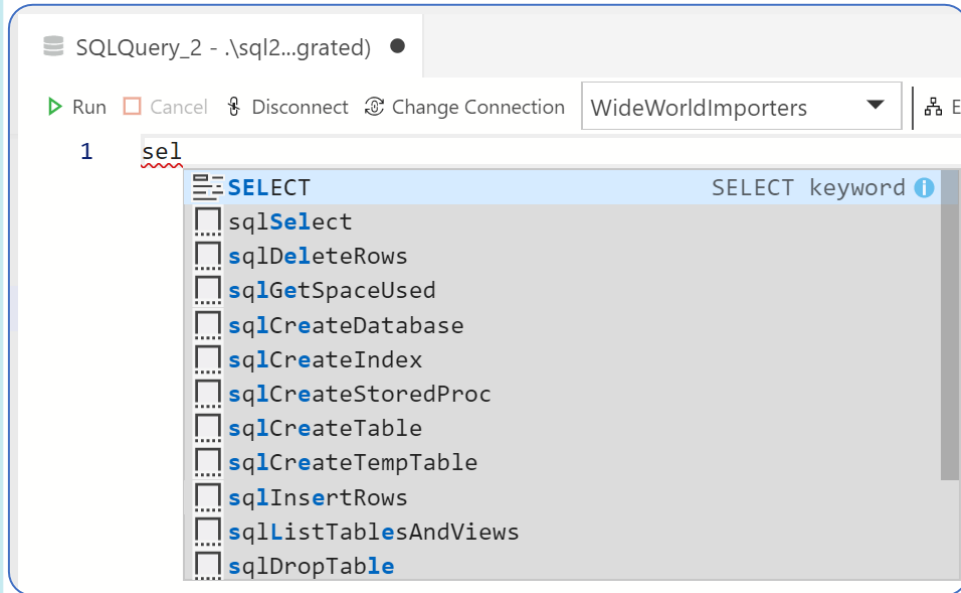
<https://github.com/Microsoft/azuredatstudio>

# Overview





# Code snippets







# Azure Data Studio

New ▾

Open file...

Open folder...



## Create a connection

Connect to a database instance through the connection dialog.



## Run a query

Interact with data through a query editor.



## Create a notebook

Build a new notebook using a native notebook editor.



## Deploy a server

Create a new instance of a relational data service on the platform of your choice.

## Resources

### History

File	Name	Location
File	TAS_Configuration_SQLDB	C:\Users\hhast\Downloads\Expose\Accelerator\TAS

## Useful Links

### Getting Started [🔗](#)

Discover the capabilities offered by Azure Data Studio and learn how to make the most of them.

### Documentation [🔗](#)

Visit the documentation center for quickstarts, how-to guides, and references for PowerShell, APIs, etc.

## Videos



PROBLEMS OUTPUT TERMINAL QUERY HISTORY TASKS

powershell + ▾ [ ] [ ] ... ^ X





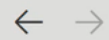
# Widgets

- Last known backups
- Slow running queries
- Table space used
- Number of objects





File Edit View Help



Search



Show All Commands **Ctrl** + **Shift** + **P**

Open File **Ctrl** + **O**

Open Folder **Ctrl** + **K** **Ctrl** + **O**

Open Recent **Ctrl** + **R**

0 0

hpassdemo.database.windows.net : AdventureWorksLT

No matches found



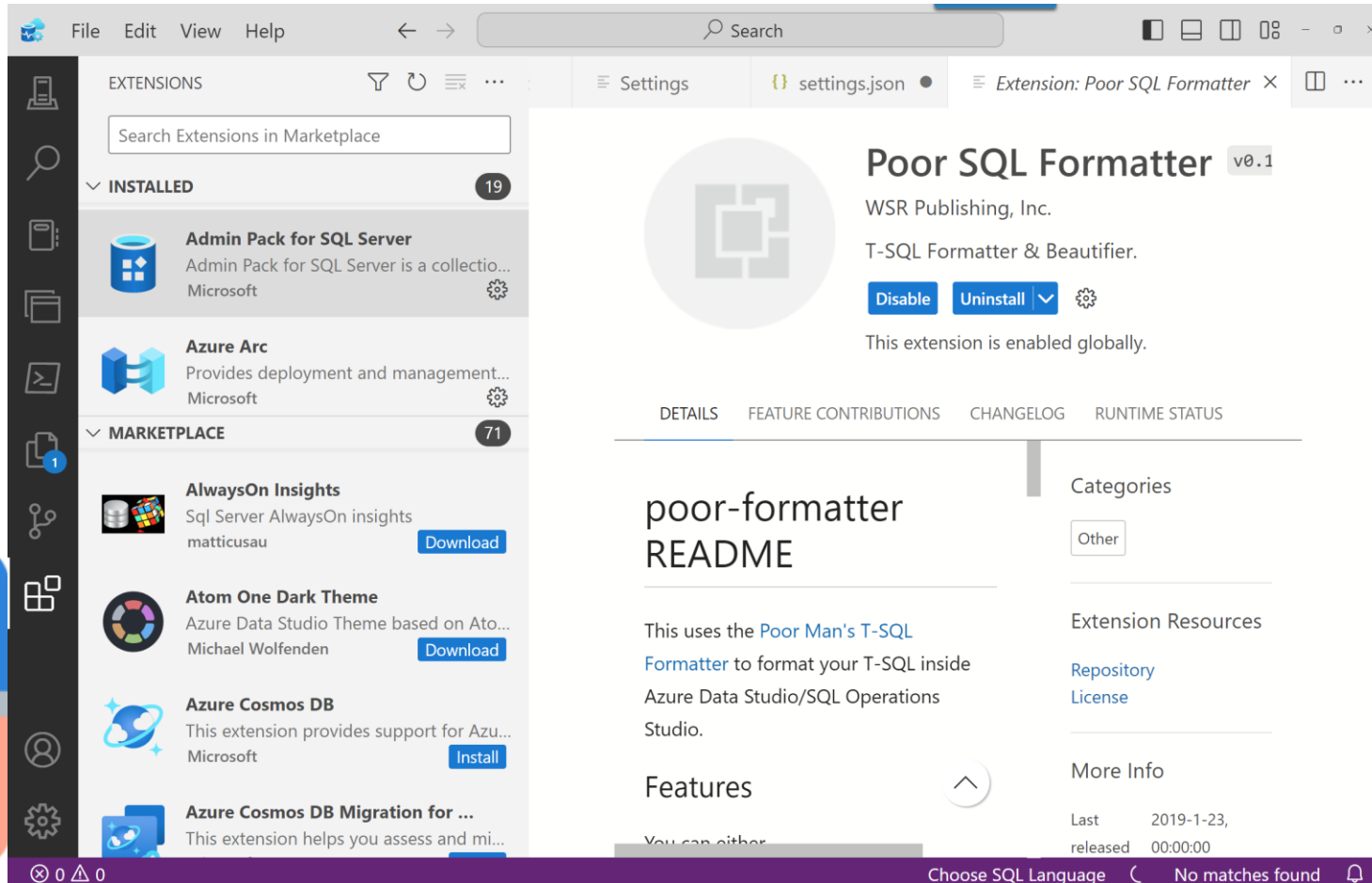
34°C  
Sunny



Search



# Extensions



The screenshot displays the Visual Studio Code interface with the Extensions Marketplace open. On the left sidebar, the 'EXTENSIONS' view is active, showing a list of installed and available extensions. The 'INSTALLED' section lists 'Admin Pack for SQL Server' and 'Azure Arc'. The 'MARKETPLACE' section lists 'AlwaysOn Insights', 'Atom One Dark Theme', 'Azure Cosmos DB', and 'Azure Cosmos DB Migration for ...'. The main panel shows the details for the 'Poor SQL Formatter' extension (v0.1) by WSR Publishing, Inc. The extension is described as a 'T-SQL Formatter & Beautifier' and is currently 'enabled globally'. The 'poor-formatter README' is visible, stating it uses 'Poor Man's T-SQL Formatter' to format T-SQL inside Azure Data Studio/SQL Operations Studio. The 'Features' section is partially visible. The bottom status bar shows 'Choose SQL Language' and 'No matches found'.

**EXTENSIONS**

Search Extensions in Marketplace

**INSTALLED** (19)

- Admin Pack for SQL Server**  
Admin Pack for SQL Server is a collectio...  
Microsoft
- Azure Arc**  
Provides deployment and management...  
Microsoft

**MARKETPLACE** (71)

- AlwaysOn Insights**  
Sql Server AlwaysOn insights  
matticusau [Download](#)
- Atom One Dark Theme**  
Azure Data Studio Theme based on Ato...  
Michael Wolfenden [Download](#)
- Azure Cosmos DB**  
This extension provides support for Azu...  
Microsoft [Install](#)
- Azure Cosmos DB Migration for ...**  
This extension helps you assess and mi...

**Poor SQL Formatter** v0.1  
WSR Publishing, Inc.  
T-SQL Formatter & Beautifier.  
[Disable](#) [Uninstall](#) [Settings](#)  
This extension is enabled globally.

**poor-formatter README**

This uses the [Poor Man's T-SQL Formatter](#) to format your T-SQL inside Azure Data Studio/SQL Operations Studio.

**Features**

You can either

**Categories**  
[Other](#)

**Extension Resources**  
[Repository](#)  
[License](#)

**More Info**  
Last released: 2019-1-23, 00:00:00

Choose SQL Language [No matches found](#)



Microsoft



### Azure Monitor Logs

🕒 198ms

Azure Monitor Logs extension for Azure Data Studio  
Microsoft



### Database Administration Tool Extensions for Wind...

Provides additional Windows-specific functionality to Az...  
Microsoft



### Database Schema Conversion Toolkit

🕒 148ms

Azure Data Studio extension to perform database schem...  
Microsoft



### Extension for Oracle

🕒 139ms

Azure Data Studio extension for Oracle  
Microsoft



### GitHub Copilot

🕒 2651ms

Your AI pair programmer  
GitHub



### Poor SQL Formatter



### SQL Assessment

🕒 208ms

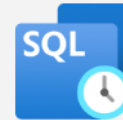
Provides a mechanism to evaluate the configuration of S...  
Microsoft



### SQL Database Projects

🕒 176ms

The SQL Database Projects extension for Azure Data Stud...  
Microsoft



### SQL Server Agent

🕒 100ms

Manage and troubleshoot SQL Agent jobs  
Microsoft



### SQL Server Dacpac

Manage data-tier applications  
Microsoft



### SQL Server Import

SQL Server Import for Azure Data Studio supports import...  
Microsoft



### SQL Server Profiler

🕒 64ms

SQL Server Profiler for Azure Data Studio  
Microsoft



# Notebooks

T-SQL and Python



Untitled-0 ●

Kernel: SQL ▼

Attach to: .\sql2016 ▼

⊕ Code

⊕ Text

💾 Save

🛡️ Trusted

Click on + **Code** or + **Text** to add a code or text cell

Untitled-0 ●

Kernel: SQL ▼

Attach to: .\sql2016 ▼

⊕ Code

⊕ Text

💾 Save

🛡️ Trusted

In this workbook we will learn how to  
-- Get a list of tables and views in the current database

In this workbook we will learn how to -- Get a list of tables and views in the current database

[4]

```
1 use WideWorldImporters;  
2 SELECT table_catalog [database], table_schema [schema], table_name [name], table_type [type]  
3 FROM INFORMATION_SCHEMA.TABLES  
4 GO
```

Kernel: SQL Attach to: .\sql2016

In this workbook we will learn how to -- Get a list of tables and views in the current database

```
1 use WideWorldImporters;
2 SELECT table_catalog [database], table_schema [schema], table_name [name], table_type [type]
3 FROM INFORMATION_SCHEMA.TABLES
4 GO
```

(55 rows affected)  
Total execution time: 00:00:00.0393057

	database	schema	name	type
1	WideWorldImport...	Warehouse	VehicleTemperatu...	BASE TABLE
2	WideWorldImport...	Warehouse	ColdRoomTemper...	BASE TABLE
3	WideWorldImport...	dbo	SampleVersion	BASE TABLE
4	WideWorldImport...	Sales	BuyingGroups	BASE TABLE
5	WideWorldImport...	Application	SystemParameters	BASE TABLE
6	WideWorldImport...	Application	Cities_Archive	BASE TABLE
7	WideWorldImport...	Application	Cities	BASE TABLE
8	WideWorldImport...	Website	VehicleTemperatu...	VIEW
9	WideWorldImport...	Application	StateProvinces_Ar...	BASE TABLE
10	WideWorldImport...	Website	Customers	VIEW
11	WideWorldImport...	Application	StateProvinces	BASE TABLE
12	WideWorldImport...	Website	Suppliers	VIEW
13	WideWorldImport...	Application	TransactionTypes_...	BASE TABLE
14	WideWorldImport...	Application	TransactionTypes	BASE TABLE
15	WideWorldImport...	Application	PaymentMethods...	BASE TABLE

Kernel: SQL Attach to: .\sql2016

In this workbook we will learn how to -- Get a list of tables and views in the current database

```
1 use WideWorldImporters;
2 SELECT table_catalog [database], table_schema [schema], table_name [name], table_type [type]
3 into #hiya
4 FROM INFORMATION_SCHEMA.TABLES
5 GO
```

(55 rows affected)  
Total execution time: 00:00:00.0557698

Not that we have a temporary dataset lets query it

```
[7] 1 select *
    2 from #hiya
```

(55 rows affected)  
Total execution time: 00:00:00.0353719

	database	schema	name	type
1	WideWorldImport...	Warehouse	VehicleTemperatu...	BASE TABLE
2	WideWorldImport...	Warehouse	ColdRoomTemper...	BASE TABLE
3	WideWorldImport...	dbo	SampleVersion	BASE TABLE
4	WideWorldImport...	Sales	BuyingGroups	BASE TABLE
5	WideWorldImport...	Application	SystemParameters	BASE TABLE
6	WideWorldImport...	Application	Cities_Archive	BASE TABLE
7	WideWorldImport...	Application	Cities	BASE TABLE
8	WideWorldImport...	Website	VehicleTemperatu...	VIEW
9	WideWorldImport...	Application	StateProvinces_Ar...	BASE TABLE
10	WideWorldImport...	Website	Customers	VIEW



# Github Copilot





# Demo

