



Microsoft Fabric

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SSMS 22 Unlocked: Features You've Been Waiting For



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Abstract

SQL Server Management Studio (SSMS) saw more updates in the last two years than a developer makes before release day. Missed them? Don't worry!

We'll showcase SSMS 22 from the installer to AI features and everything in between. Expect a whirlwind tour with demos including the new connection dialog, SQL Projects enhancements, the Query Hint tool, and editor and results grid improvements.

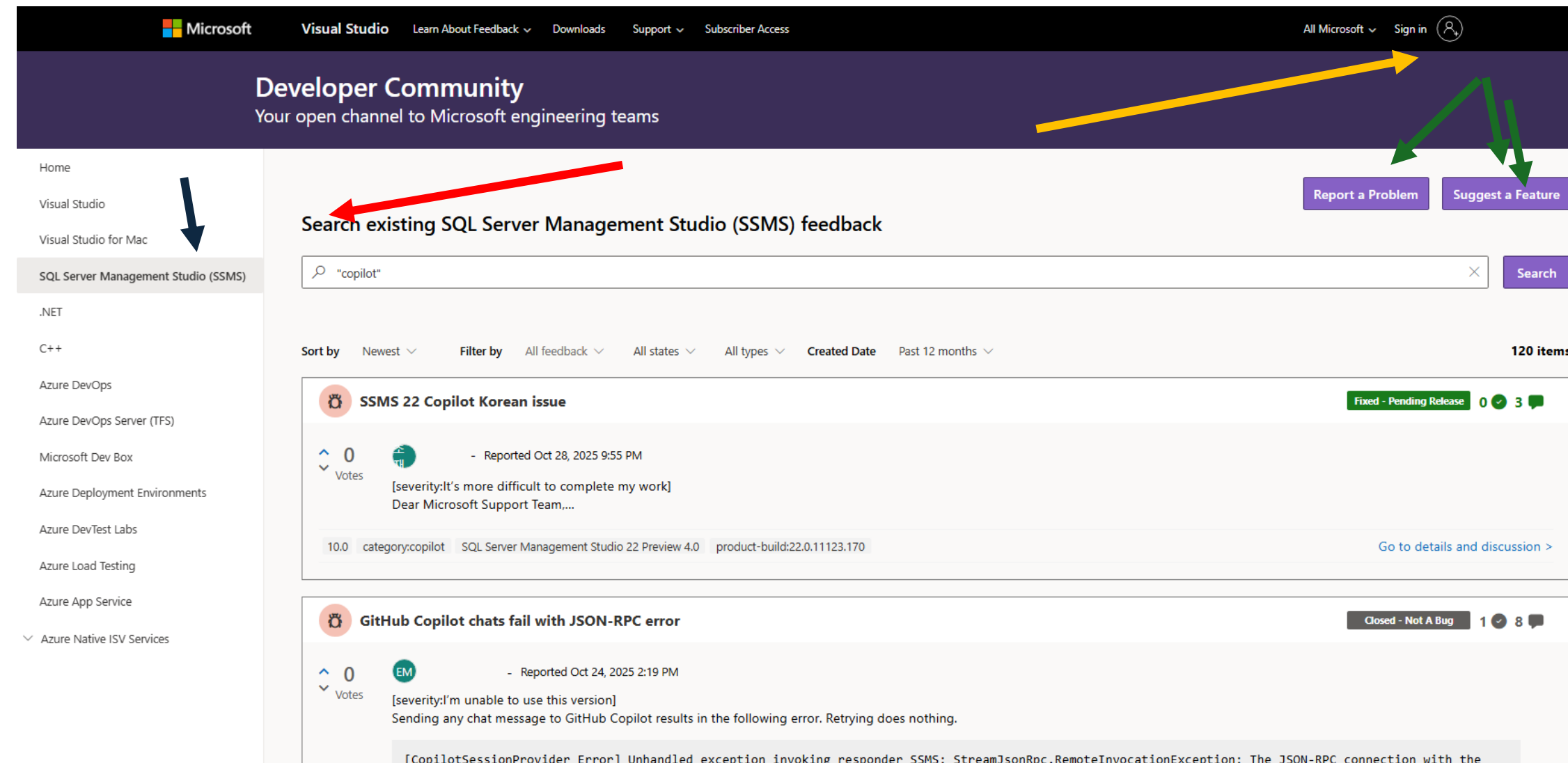
SSMS Feedback

Now on DevCom!

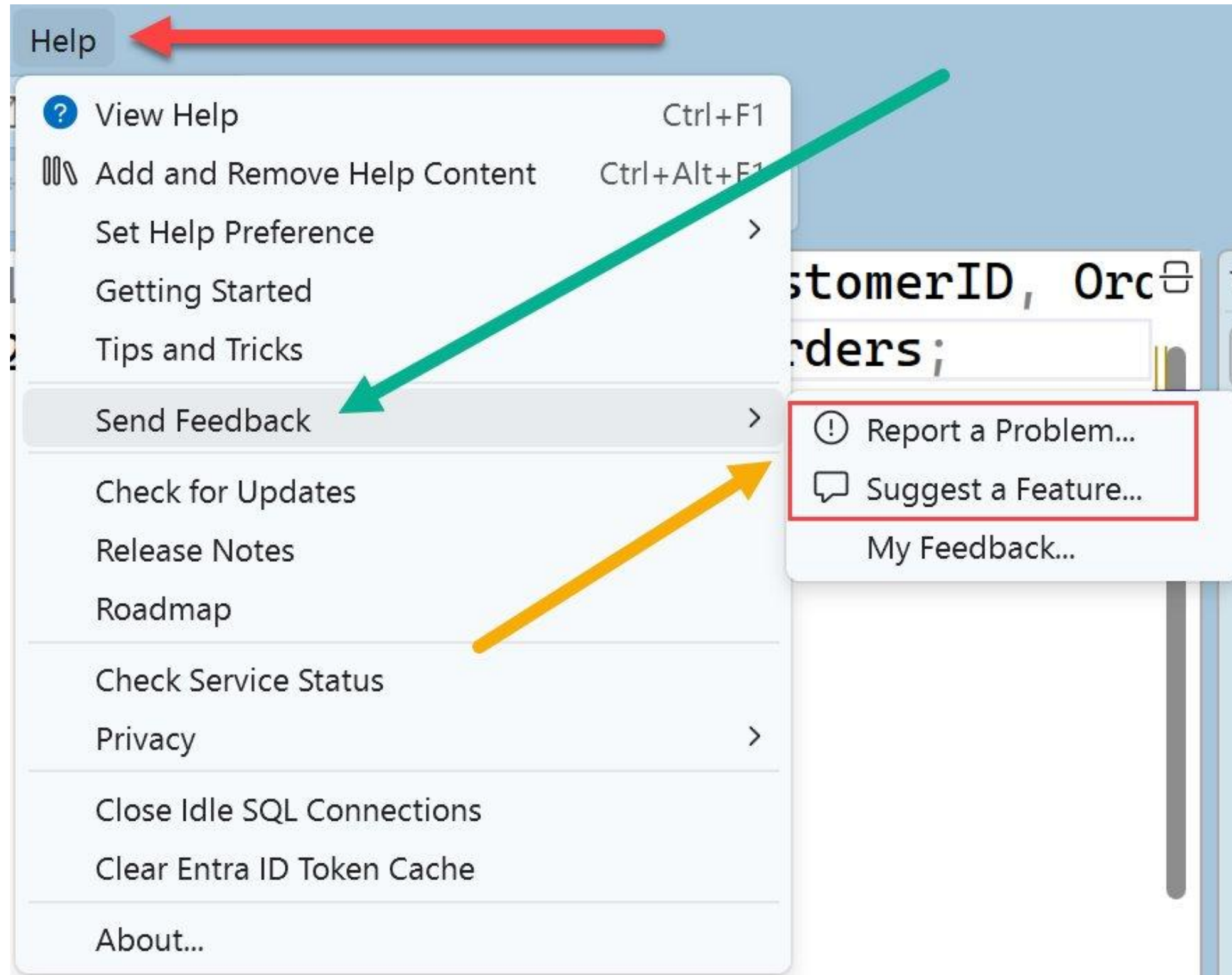
aka.ms/ssms-feedback

Log requests and bugs

Upload logs, images and
engage with the team



Send feedback directly from SSMS



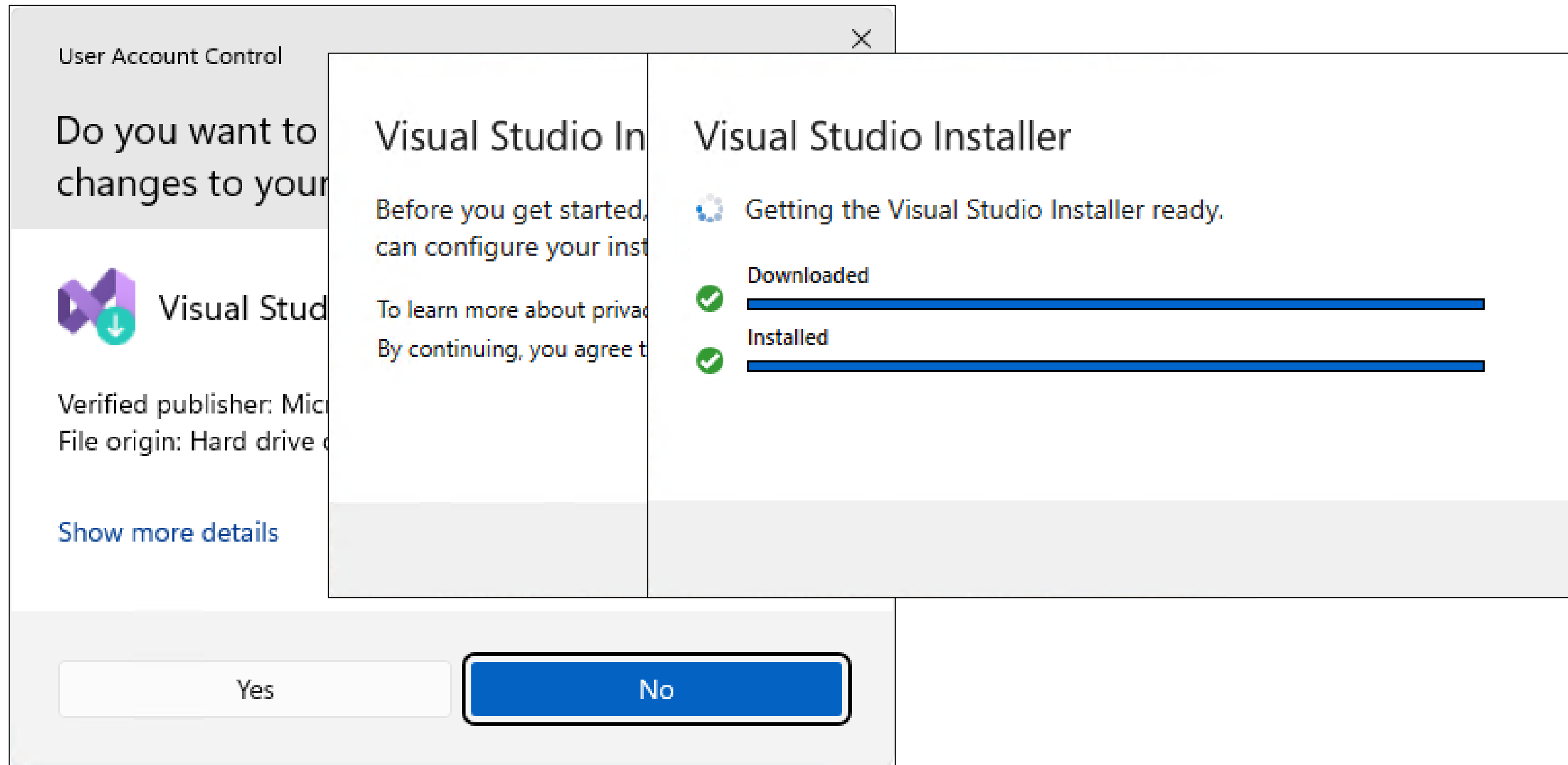
Introducing SQL Server Management Studio 22



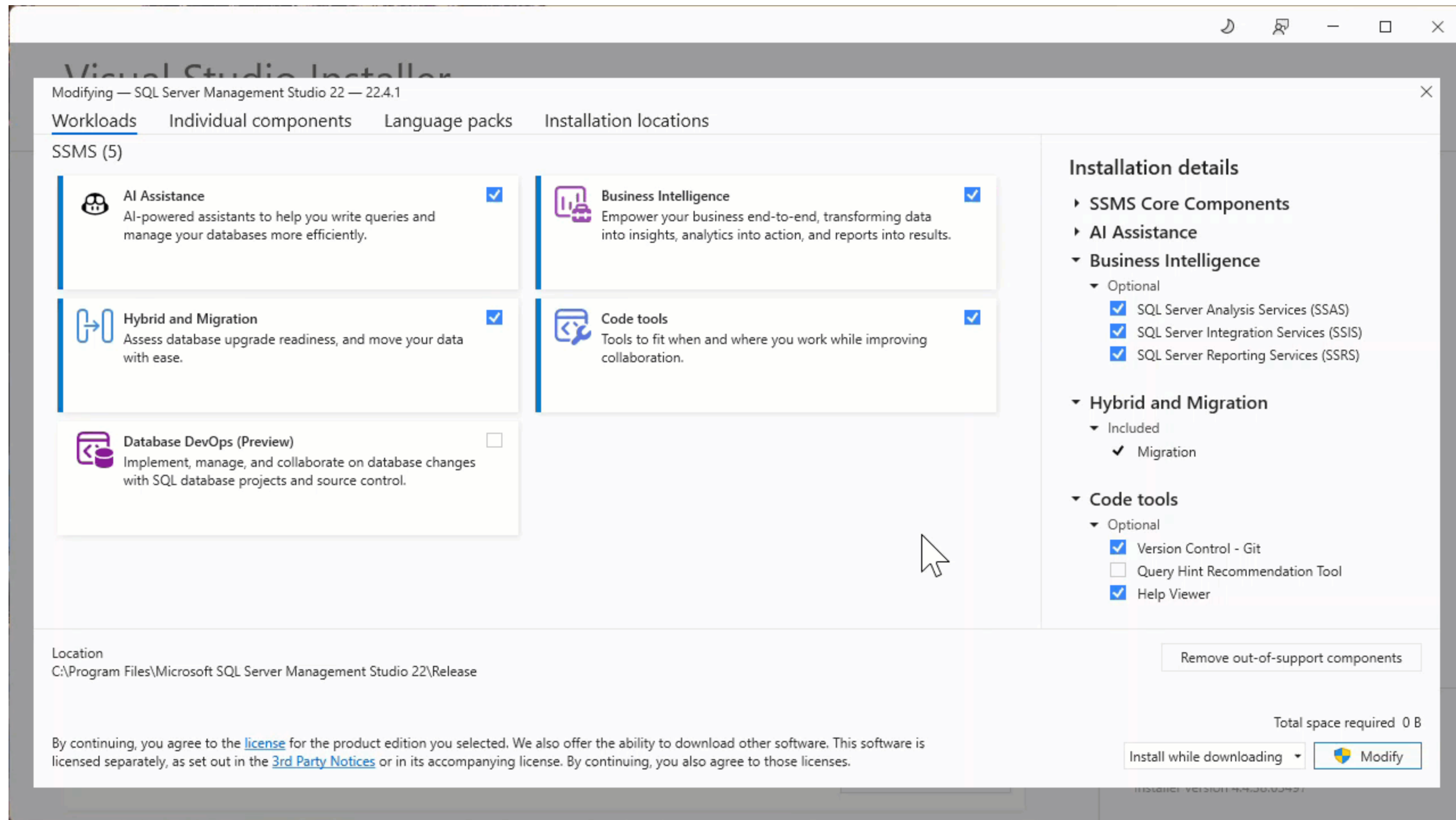
SQL Server 2025



Installing SSMS 22: VS Installer



Installing SSMS 22: optional workloads



New Connection Dialog

Connect

History Browse

Recent Connections

- SQL Server 2025 - ., <default> (NORTHAMERICA\mbarickman)
- mbarickman_2_25 - mbarickman1-2025.database.windows.net, mbaric...
- TwoTrees - Azure - mbarickman1-2025.database.windows.net, TwoTre...
- AdventureWorks - Fabric - x6eps4xrq2xudenlfv6naeo3i4-e7wqql3za6...
- AdventureWorks Azure - mbarickman1-2025.database.windows.net, A...
- DESKTOP-0M5T7O5\SQLEXPRESS2019, <default> (NORTHAMERICA\...
- DESKTOP-0M5T7O5\SQLSERVER2022, <default> (NORTHAMERICA\m...

Connection Properties Connection String

Server Name: .

Authentication: Windows Authentication

User Name: NORTHAMERICA\mbarickman

Password:

☐ Remember Password

Database Name: <default>

Encrypt: Mandatory

☒ Trust Server Certificate

Advanced...

Custom Properties

Name: SQL Server 2025

Color: <default> Custom...

Reset Connect Cancel

Options

Search Settings Filter: All Settings Applies to: user (current insta) Edit user settings as JSON Sync

All Settings > Connection Dialog

Connection Experience

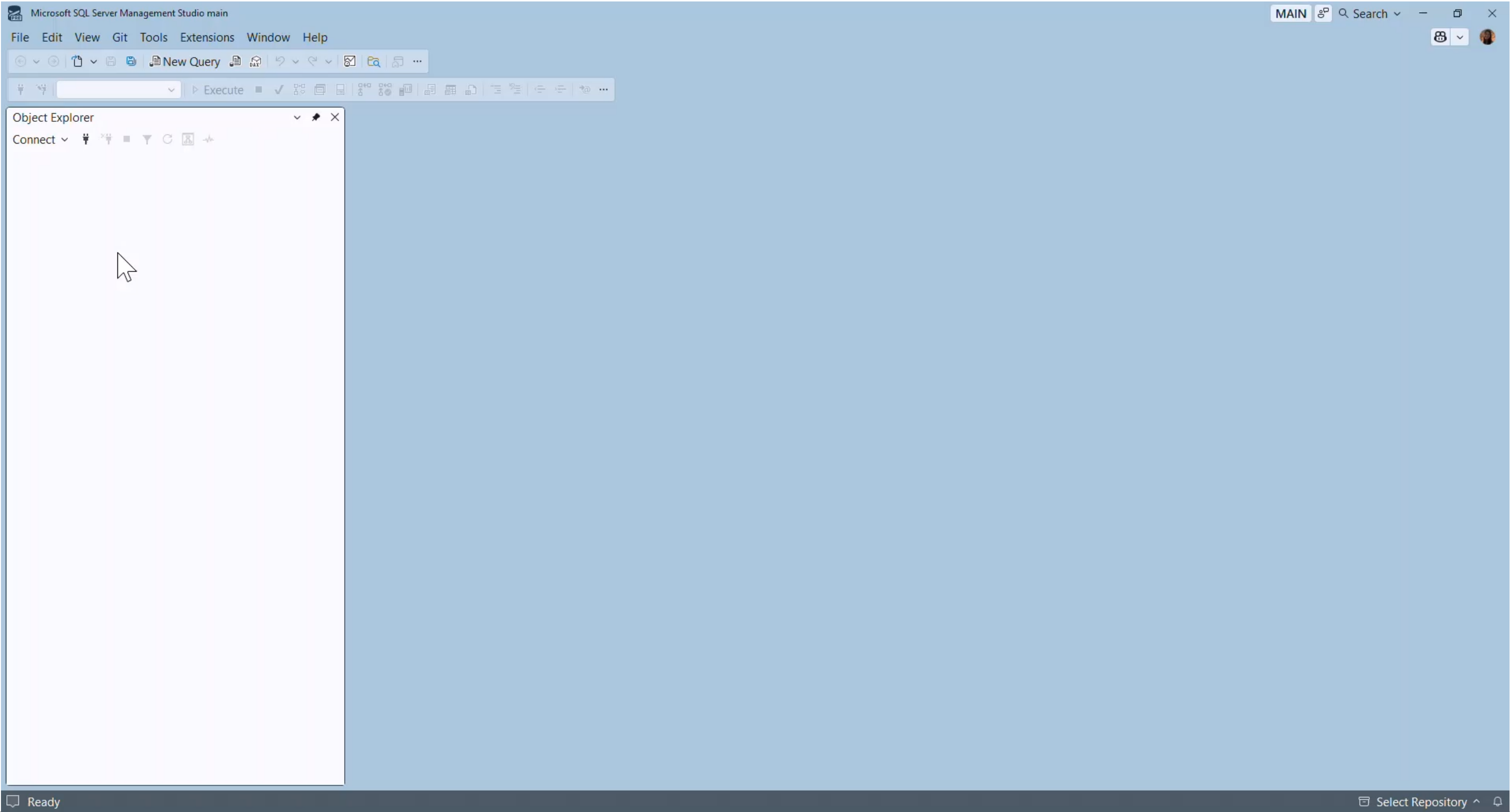
Preferred connection experience

Modern

☒ Automatically select the most recent connection

Whether to automatically select the most recent connection when connection dialog launches

Group By Schema



Export Results

SQLQuery6.sql - SQL Server 2025 - Microsoft SQL Server Management Studio-main

File Edit View Query Git Tools Extensions Window Help

AdventureWorks2025 Execute

Object Explorer

SQL Server 2025 (SQL Server 17.0.1105.2 - NORTHAMERICA)

Databases

- System Databases
- Database Snapshots
- AdventureWorks2025
 - Database Diagrams
 - dbo
 - guest
 - HumanResources
 - INFORMATION_SCHEMA
 - Person
 - Production
 - Purchasing
 - Sales
 - sys
- Built-in Schemas
- External Resources
- Programmability
- Query Store
- Service Broker
- Storage
- Security
- CandyStore
- JSONTest
- MaksToyStore
- QueryHintDemo
- WideWorldImporters

Security

- Server Objects
- Replication
- Always On High Availability
- Management
- Integration Services Catalogs
- SQL Server Agent
- XEvent Profiler

SQLQuery6.s...Server 2025

```
1 SELECT
2     sod.SalesOrderID,
3     sod.SalesOrderDetailID,
4     sod.OrderQty,
5     sod.ProductID,
6     p.Name AS ProductName,
7     p.ProductNumber,
8     sod.UnitPrice,
9     sod.UnitPriceDiscount,
10    sod.LineTotal,
11    sod.ModifiedDate
12 FROM Sales.SalesOrderDetail sod
13 INNER JOIN Production.Product p ON sod.ProductID = p.ProductID
14 ORDER BY sod.SalesOrderID, sod.SalesOrderDetailID;
```

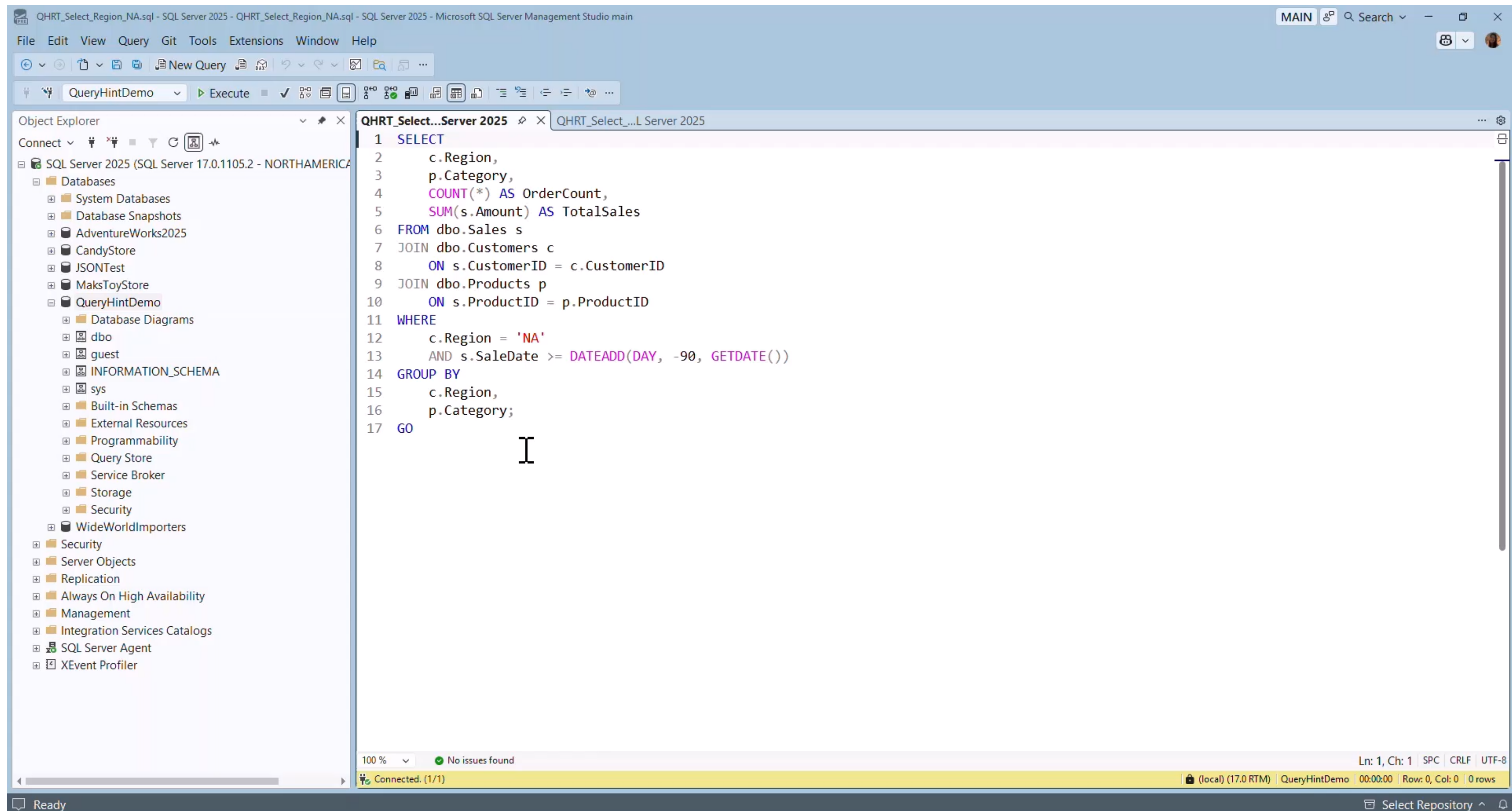
100 % No issues found Ln: 14, Ch: 51 SPC LF UTF-8

Results Messages

	SalesOrderID	SalesOrderDetailID	OrderQty	ProductID	ProductName	ProductNumber	UnitPrice	UnitPriceDiscount	LineTotal	ModifiedDate
1	43659	1	1	776	Mountain-100 Black, 42	BK-M82B-42	2024.994	0.00	2024.994000	2022-05-30 00:00:00.000
2	43659	2	3	777	Mountain-100 Black, 44	BK-M82B-44	2024.994	0.00	6074.982000	2022-05-30 00:00:00.000
3	43659	3	1	778	Mountain-100 Black, 48	BK-M82B-48	2024.994	0.00	2024.994000	2022-05-30 00:00:00.000
4	43659	4	1	771	Mountain-100 Silver, 38	BK-M82S-38	2039.994	0.00	2039.994000	2022-05-30 00:00:00.000
5	43659	5	1	772	Mountain-100 Silver, 42	BK-M82S-42	2039.994	0.00	2039.994000	2022-05-30 00:00:00.000
6	43659	6	2	773	Mountain-100 Silver, 44	BK-M82S-44	2039.994	0.00	4079.988000	2022-05-30 00:00:00.000
7	43659	7	1	774	Mountain-100 Silver, 48	BK-M82S-48	2039.994	0.00	2039.994000	2022-05-30 00:00:00.000
8	43659	8	3	714	Long-Sleeve Logo Jersey, M	LJ-0192-M	28.8404	0.00	86.521200	2022-05-30 00:00:00.000
9	43659	9	1	716	Long-Sleeve Logo Jersey, XL	LJ-0192-X	28.8404	0.00	28.840400	2022-05-30 00:00:00.000
10	43659	10	6	709	Mountain Bike Socks, M	SO-B909-M	5.70	0.00	34.200000	2022-05-30 00:00:00.000
11	43659	11	2	712	AWC Logo Cap	CA-1098	5.1865	0.00	10.373000	2022-05-30 00:00:00.000
12	43659	12	4	711	Sport-100 Helmet, Blue	HL-U509-B	20.1865	0.00	80.746000	2022-05-30 00:00:00.000

Query executed successfully. (local) (17.0 RTM) AdventureWorks2025 00:00:02 Row: 2, Col: 3 | 121,317 rows

Query Hint Recommendation Tool



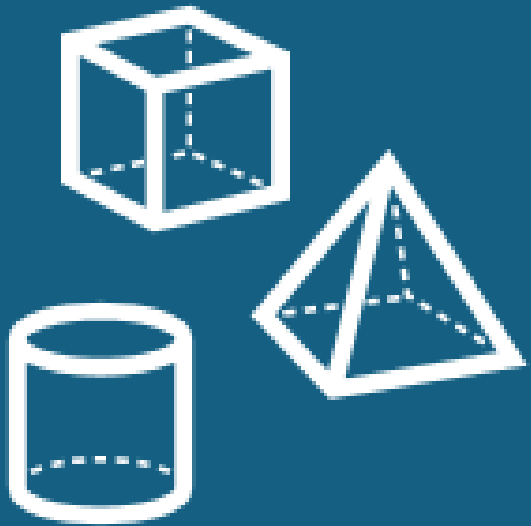
SQL Database Project



Database settings



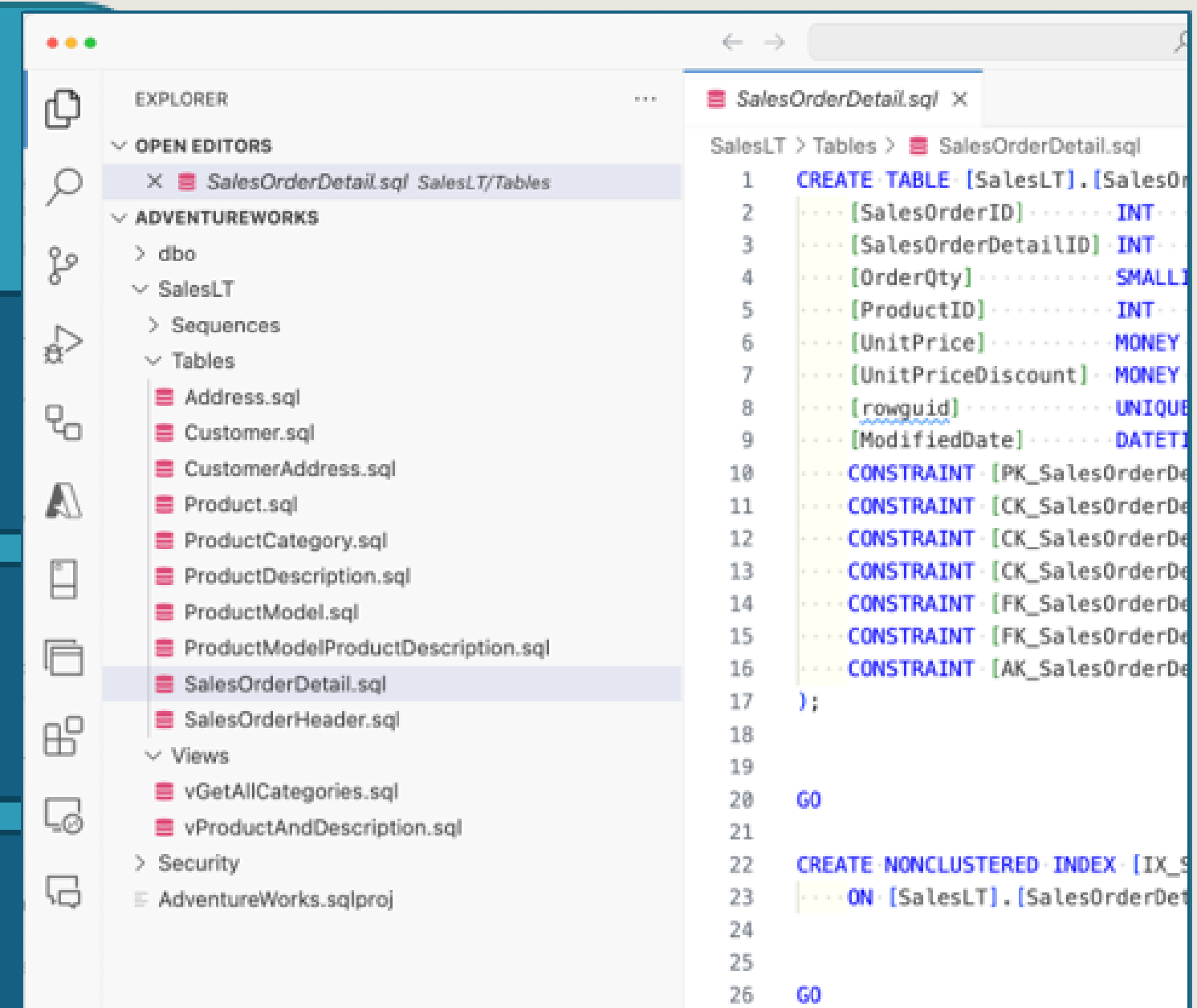
Pre-deployment script



Database objects
(tables, stored procs, indexes, etc.)

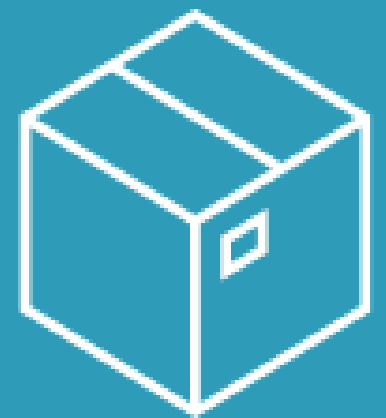


Post-deployment script



build

.dacpac



SQL Projects

03:15 PM – 04:15 PM | Friday, March 20th

Batteries included: SQL DevOps with SQL projects

Speakers: [*Drew Skwiers-Koballa*](#)

Track: SQL Server, SQLCON, SQL Server

Level: 200 - Feature Oriented

Location: C211-C213

[Hide details](#)

The evolution of SQL projects continues with expanded IDE support and deeper integration in the Fabric platform. Using the latest in VS Code and SSMS, we'll walk through keeping our database in source control, integrating changes made in another database, and evaluating deployment plans. Finally, we'll automate CI/CD processes with REST APIs for SQL database in Fabric and the SqlPackage CLI.

GitHub Copilot in SSMS

Chat

Attach files

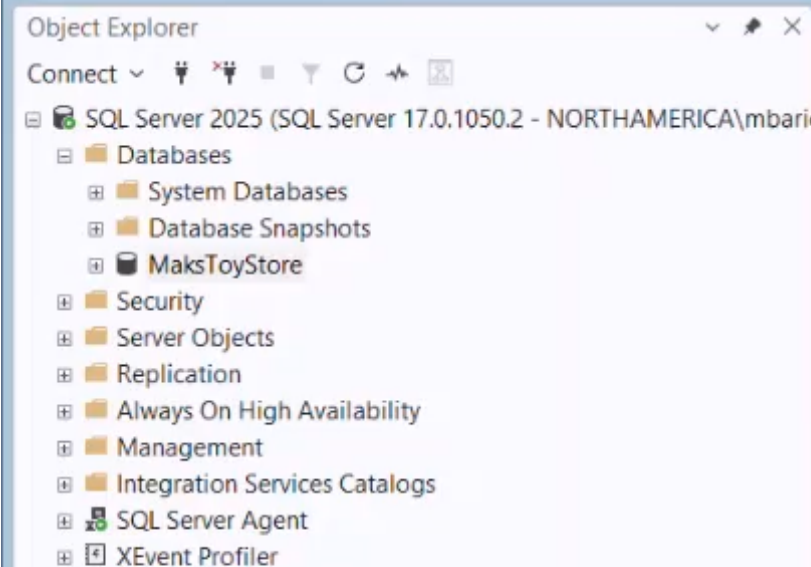
Code Completions

Database instructions

Database constitution

Custom instructions

The screenshot displays the Microsoft SQL Server Management Studio (SSMS) interface. On the left, the Object Explorer shows the server structure for 'SQL Server 2025 (SQL Server 17.0.1050.2 - NORTHAMERICA\mbari...)', including Databases, Security, and Server Objects. The 'MaksToyStore' database is selected. The central query window, titled 'SQLQuery6....Server 2025', shows a single line of text '1' at the cursor position. The right sidebar contains the GitHub Copilot Chat interface, which includes a 'New Thread' button, the Copilot Chat logo, and a message: 'I might make mistakes, so check for accuracy. Use # for references, / for commands, and @ for agents.' Below this, there are three example prompts: 'Provide the T-SQL to create a table in the dbo schema to hold employee infor...', 'Which queries used the most CPU time in the last hour?', and 'List the 10 largest tables in this database based on row count.' The bottom status bar indicates 'Connected. (1/1)' and 'No issues found'.



```
1  --create a table that holds Lego information. include LegoID, set name,
2  CREATE TABLE LegoSets (
3      LegoID INT PRIMARY KEY IDENTITY(1,1),
4      SetName NVARCHAR(255) NOT NULL,
5      Theme NVARCHAR(255) NOT NULL,
6      AgeRange NVARCHAR(50) NOT NULL,
7      PieceCount INT NOT NULL,
8      Price DECIMAL(10, 2) NOT NULL
9  );
```

120 % No issues found Ln: 9, Ch: 3 SPC CRLF UTF-8

Messages

Commands completed successfully.

Completion time: 2026-02-10T14:57:42.8670385-08:00

120 % No issues found

Ln: 4, Ch: 1 TABS MIXED UTF-8 with BOM

Query executed successfully.

(local) (17.0 RTM) MaksToyStore 00:00:00 Row: 0, Col: 0 0 rows



Copilot Chat

I might make mistakes, so check for accuracy.
Use # for references, / for commands, and @
for agents.

Provide the T-SQL to create a table in the dbo schema to hold employee infor...

Which queries used the most CPU time in the last hour?

List the 10 largest tables in this database based on row count.

+ Active Document X



Claude Sonnet 4.5

SQLQuery6.sql - SQL Server 2025 • SQLQuery6.sql - SQL Server 2025 • Microsoft SQL Server Management Studio

File Edit View Git Project Tools Extensions Window Help

SQLQuery6.sql

Execute

Change Type

Object Explorer

Connect

SQL Server 2025 (SQL Server 17.0.1050.2 - NORTHAMERICA\mbari)

Databases

System Databases

Database Snapshots

MaksToyStore

Security

Server Objects

Replication

Always On High Availability

Management

Integration Services Catalogs

SQL Server Agent

XEvent Profiler

SQLQuery6.sql... Server 2025

233

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248

INSERT INTO CustomerOrders (CustomerName, OrderDate, TotalAmount, LegoID

VALUES

('Emma Johnson', '2024-12-26 10:30:00', 99.99, 31),

('Brandon Lee', '2024-12-28 14:15:00', 349.99, 18),

('Olivia Taylor', '2024-12-24 11:20:00', 59.99, 47),

('Carlos Rodriguez', '2024-12-27 15:45:00', 249.99, 77),

('Sarah Williams', '2024-12-29 09:30:00', 369.99, 3),

('Michael Chen', '2024-12-30 16:00:00', 119.99, 65),

('Jennifer Adams', '2024-12-25 13:50:00', 14.99, 57),

('Tyler Brown', '2024-12-31 10:45:00', 99.99, 68),

('Lucas Chen', '2024-12-26 12:10:00', 199.99, 40),

('Ashley Davis', '2024-12-29 14:25:00', 179.99, 104);

120 %

No issues found

Ln: 248, Ch: 5 SPC CRLF UTF-8

Results Messages

	OrderID	CustomerName	OrderDate	TotalAmount	LegoID
1	1	Michael Chen	2024-12-15 14:23:00.000	849.99	1
2	2	Sarah Williams	2024-11-20 10:45:00.000	499.99	12
3	3	David Rodriguez	2024-10-05 16:30:00.000	469.99	2
4	4	Emily Thompson	2024-12-01 11:15:00.000	499.99	34
5	5	James Anderson	2024-09-18 13:42:00.000	399.99	13
6	6	Jessica Martinez	2024-11-28 09:30:00.000	169.99	30
7	7	Michael Chen	2024-10-22 15:20:00.000	159.99	9
8	8	Brandon Lee	2024-12-10 12:00:00.000	179.99	79
9	9	Ashley Davis	2024-11-15 14:55:00.000	199.99	20
10	10	Christopher Wilson	2024-10-30 10:10:00.000	149.99	17
11	11	Emma Johnson	2024-12-18 16:45:00.000	19.99	52
12	12	Tyler Brown	2024-11-25 11:30:00.000	14.99	53
13	13	Madison Garcia	2024-12-05 13:20:00.000	9.99	88
14	14	Ryan Miller	2024-10-12 15:40:00.000	19.99	66
15	15	Olivia Taylor	2024-11-08 10:25:00.000	24.00	67

Query executed successfully.

(local) (17.0 RTM) MaksToyStore 00:00:00 Row: 3, Col: 3 66 rows

GitHub Copilot Chat

New Thread



Copilot Chat

I might make mistakes, so check for accuracy.

Use # for references, / for commands, and @ for agents.

Provide the T-SQL to create a table in the dbo schema to hold employee infor...

Which queries used the most CPU time in the last hour?

List the 10 largest tables in this database based on row count.

+ Active Document X

I

Claude Sonnet 4.5

Other improvements you might have missed...

Visual Studio 2026

Windows ARM64 support

New themes

Open an execution plan in a new tab

Zoom results grid

Improved startup time (22.4.1)

...and just in case you skipped SSMS 21

64-bit support

Git integration

Initial dark theme support

Improved Azure authentication experience

New Database Scoped Configuration settings page

Always Encrypted Assessment

Markdown viewer

Rename tabs

Initial support for SQL 2025

The week ahead

Wednesday

- SSMS 22 Unlocked: Features You've Been Waiting For
- Build Secure, Scalable AI Applications with Azure SQL Database Hyperscale

Thursday

- | | | | | |
|--|--|--|--|--|
| Building Trustworthy AI Applications with SQL: Ground to Cloud to Fabric | Elevate SQL Development with VS Code, GitHub Copilot and Microsoft SQL Drivers | New in Modern Developer Experiences in SQL | Performance Monitoring for SQL, From Ground to Cloud | SQL Copilots Unveiled: Architecture, Workflows, and Use Cases |
| SQL Server in Azure Virtual Machine – Configuring for price-performance | SQL + AI: Building Agentic Apps with SQL MCP Server + AI Foundry | What's New in the SQL Core Engine – the 2026 Edition | SQL Database in Fabric: The Unified Database for AI Apps and Analytics | SQL vs. Fabric? Why Not Both! A Practical and Entertaining Guide for All |

Friday

- | | | | |
|---|---|---|---|
| Simplify Management of Hybrid and Multi-Cloud SQL Server using Azure Arc | SQL Server 2025 is the AI-ready Enterprise Database | Hyperscale – the SQL Database for all Workloads | Unlock the Azure SQL Advantage with a Streamlined Migration Experience via Azure Arc and AI |
| SQL Performance Supercharged: Strategies for Azure SQL Performance Optimization | Batteries Included: SQL DevOps with SQL Projects | Azure SQL MI Unleashed: Inside the Next Gen GP & What's Coming Next | When AI Meets Your Database: Securing Sensitive Data in Azure SQL in an AI-driven World |

What's new in Microsoft SQL @SQLCon

Migrate and Modernize

Assessment + Migration

- Azure SQL VM migration support with Arc
- SSMA Sybase to SQL with Copilot
- Fabric migration experience to Fabric SQL Database*
- Register and inventory multiple instances and databases*
- SQL Server 2025 update policy for Azure SQL Managed Instance
- Azure SQL Managed Instance Link
 - Multi-DB migration**
 - Simplified MI Link creation experience
- Change Event Streaming for SQL Managed Instance
- Private subnets support

Linux

- Bulk admin role*
- Autil packages for Ubuntu 24.04 and RHEL 10
- SQL Server 2025 for Ubuntu 24.04 and RHEL 10
- DMV parity
- Pacemaker HA persistent agent service*

Cloud-Native

Monitoring

- Access performance data via ADX, at-scale monitoring*
- Resource-specific performance dashboard
- New Query Editor experience in Azure*

AI

- SQL MCP Server via Data API builder*
- DML on VECTOR INDEXed tables*
- Iterative Filtering for Vector Indexes with TOP APPROXIMATE*
- Improved CREATE VECTOR INDEX performance*

Security & Enterprise

- TDE Versionless key support*
- Entra principals for login creation
- Private subnet support
- Terraform SQL API coverage

Performance

- 160 and 192 v-Core support*
- Load balancing for named replicas**
- Automatic index compaction*

Unify your Data Platform

SQL database in Fabric enterprise readiness

- Migration to SQL databases*
- Configure database-level v-Core limits*
- Custom table selection for mirroring*
- List and restore deleted database*
- All collations support*
- Full text support*
- Customer-Managed Keys
- Auditing
- Dynamic Data Masking
- Perf dashboard/Workspace Monitoring**
- Azure SQL Database ALTER DATABASE parity*
- Open SQL Project from Fabric in SSMS*
- Pre/post update/deployment actions*

Mirroring

- Support for mirroring >500 tables

Tools + SDKs

VS Code MSSQL extension

- Application quickstart with GitHub Copilot*, including design schema and data API
- Query Profiler*
- Edit Data

- Fabric SQL browse and create

SSMS 22

- GitHub Copilot
- Code completions and database instructions
- SQL Projects*
- Export to JSON, XML, Excel
- Group by schema

Drivers & SDKs

- Python Bulk Copy support
- PHP 8.4 + 8.5
- SQLClient 7.0
- JDBC 13.4
- Django 6.0

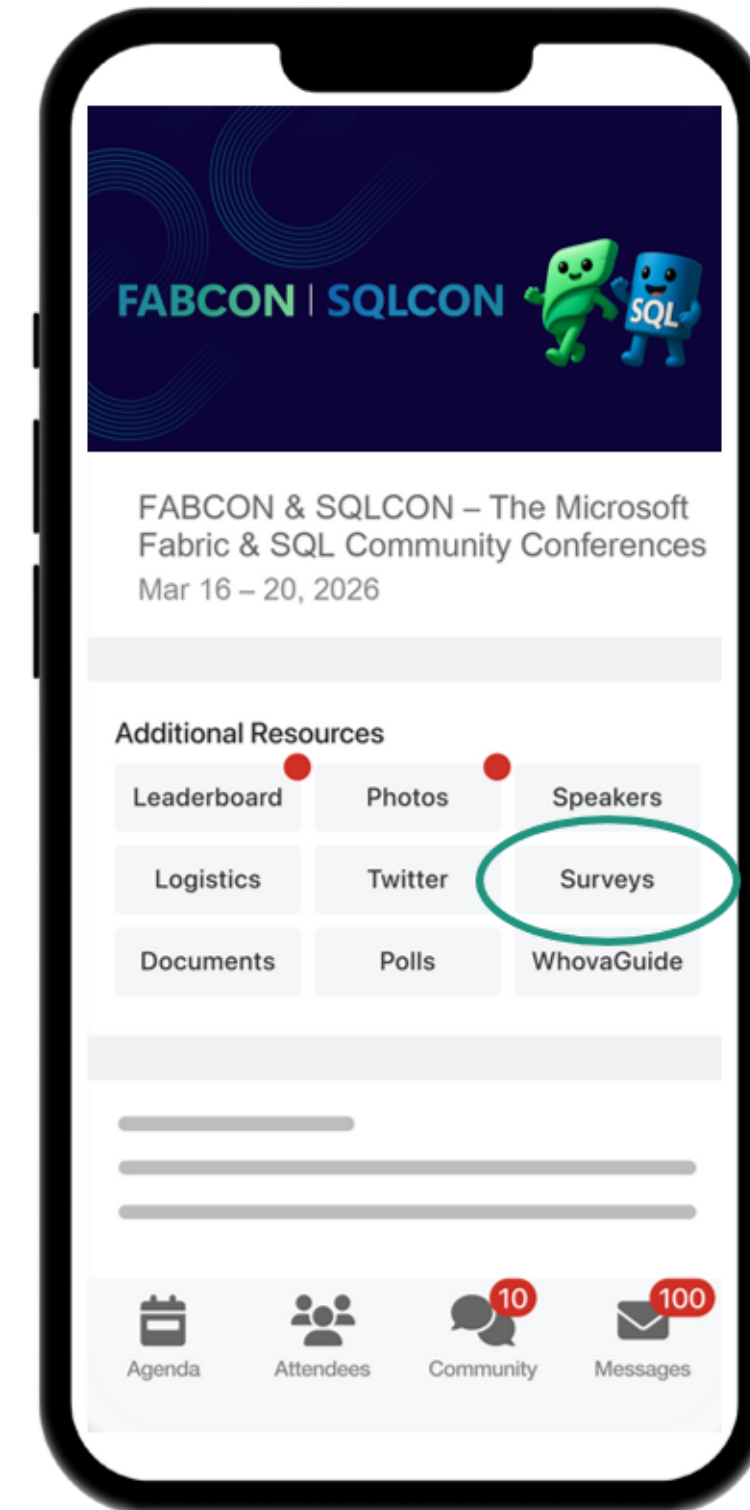
- DACPAC Import/Export
- SQL Notebooks*
- Expanded SQL Project item templates

All items GA unless denoted * (Public Preview), ** (Private Preview)

How was the session?



Complete Session Surveys in
Whova for your chance to WIN
PRIZES!



Sound off.
The mic is all yours.
Influence the product roadmap.

Join the Fabric User Panel



Share your feedback directly with our
Fabric product group and researchers.

<https://aka.ms/JoinFabricUserPanel>

Join the SQL User Panel



Influence our SQL roadmap and ensure
it meets your real-life needs

<https://aka.ms/JoinSQLUserPanel>

Thank you!

#FABCONSQLCON2026

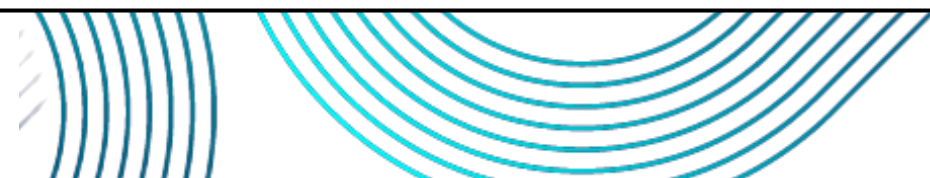
FABCON

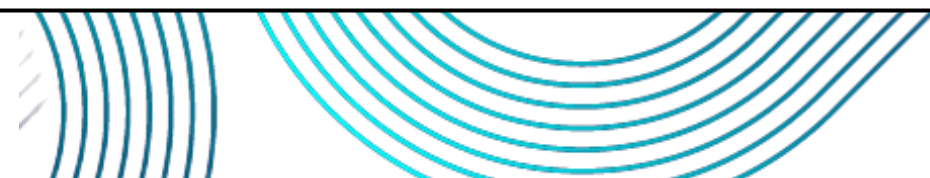
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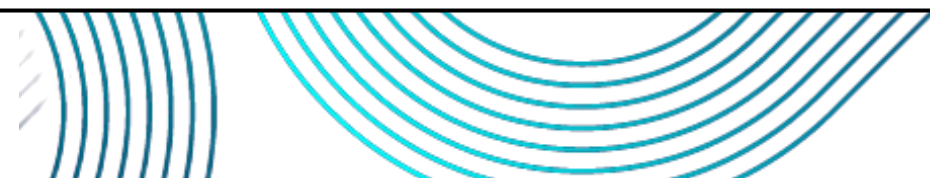
SQLCON

Microsoft SQL
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ATLANTA MARCH 16 - 20, 2026







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Influence the product roadmap.

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Share your feedback directly with our
Fabric product group and researchers.

<https://aka.ms/JoinFabricUserPanel>

Join the SQL User Panel



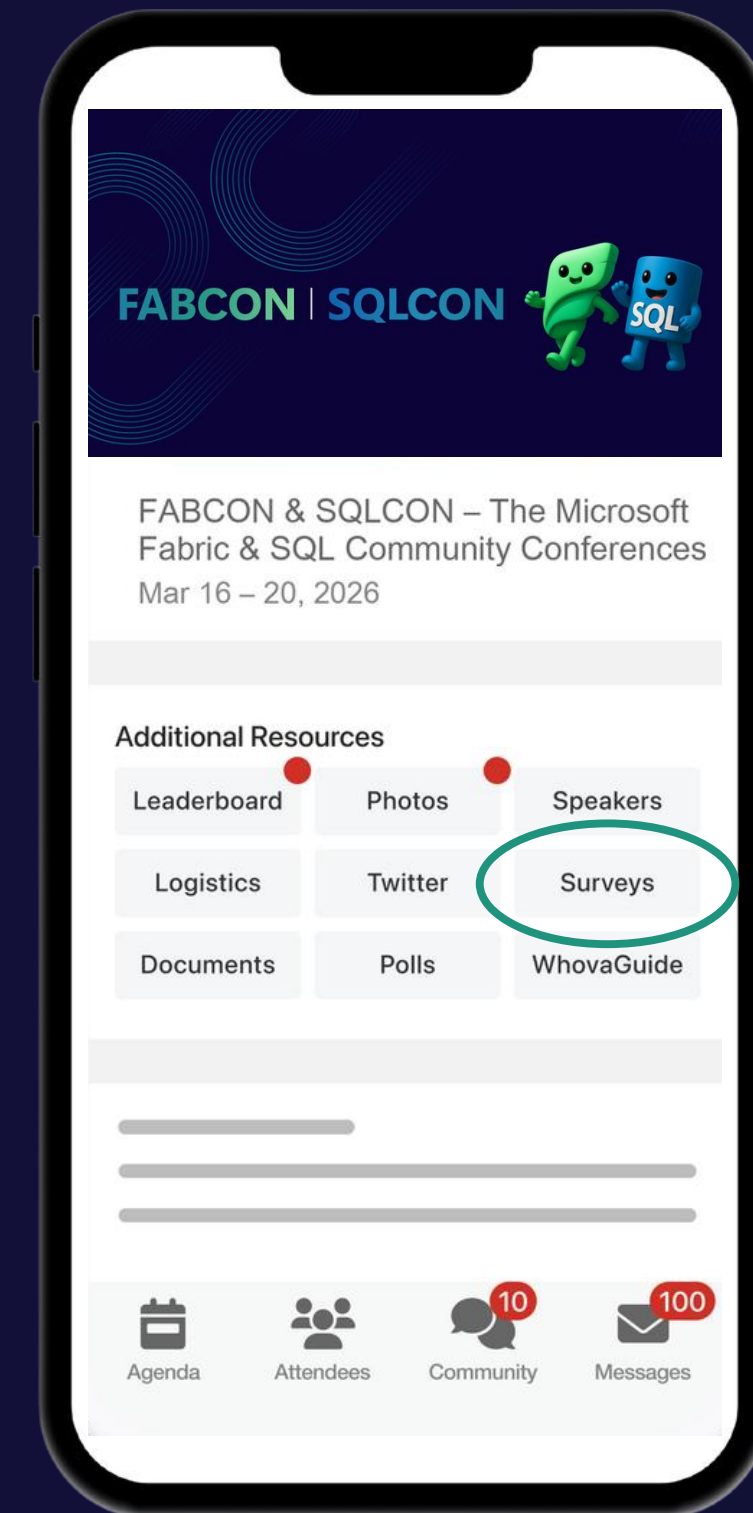
Influence our SQL roadmap and ensure
it meets your real-life needs

<https://aka.ms/JoinSQLUserPanel>

How was the session?



Complete Session Surveys in
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