

Road_Map - Cloud Engineer & ... | CLD_CMP - Google Docs | Recommended Jobs | Mynaukri | Inbox (78) - aniketsingh007cl... | Create Namespace - Microsoft | +

portal.azure.com/#view/Microsoft_Azure_EventHub/CreateBlade/_provisioningContext-/initialValues%3A%7B"subscriptionIds"%3A%5B%5D%2C"resourceGroupNames"%3A%5B%5...

Microsoft Azure Upgrade Search resources, services, and docs (G+) Copilot

Dashboard > Event Hubs >

Create Namespace

Event Hubs

manage all your resources.

Subscription * Azure subscription 1

Resource group * (New) rg-e-commerce-real-time Create new

Instance Details

Enter required settings for this namespace, including a price tier and configuring the number of units (capacity).

Namespace name * ecommerce-namespacee .servicebus.windows.net

Region * West Europe

ⓘ The region selected supports Availability zones. Your namespace will have Availability Zones enabled. [Learn more](#).

Pricing tier * Standard Browse the available plans and their features

Throughput Units * 1

Enable Auto-Inflate ⓘ

Review + create < Previous Next: Advanced >

Road_Map - Cloud Engineer & x CLD_CMP - Google Docs x Recommended Jobs | Mynaukri x Inbox (78) - aniketsingh007cl x Create Namespace - Microsoft x +

portal.azure.com/#view/Microsoft_Azure_EventHub/CreateBlade/_provisioningContext-/initialValues%3A%7B"subscriptionIds"%3A%5B%5D%2C"resourceGroupNames"%3A%5B%5...

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Dashboard > Event Hubs Create Event Hubs

Validation successful

Basics Namespace Subscription Resource group Region Pricing tier Throughput Availability Auto-Inflate Networking Connectivity Security Minimum TLS Local Authentication

Command Prompt

```
Microsoft Windows [Version 10.0.26100.6899]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ANIKET>pip install kafka-python faker
Defaulting to user installation because normal site-packages is not writeable
Collecting kafka-python
  Obtaining dependency information for kafka-python from https://files.pythonhosted.org/packages/4a/db/694fd552295ed091e7418d02b6268ee36092d4c93211136c448fe061fe32/kafka_python-2.3.0-py2.py3-none-any.whl.metadata
    Using cached kafka_python-2.3.0-py2.py3-none-any.whl.metadata (10.0 kB)
Collecting faker
  Obtaining dependency information for faker from https://files.pythonhosted.org/packages/fc/23/e22da510e1ec1488966330bf76d8ff4bd535cbfc93660eeb7657761a1bb2/faker-40.1.0-py3-none-any.whl.metadata
    Downloading faker-40.1.0-py3-none-any.whl.metadata (16 kB)
Requirement already satisfied: tzdata in c:\users\aniket\appdata\roaming\python\python312\site-packages (from faker) (2025.2)
Using cached kafka_python-2.3.0-py2.py3-none-any.whl (326 kB)
Downloading faker-40.1.0-py3-none-any.whl (2.0 MB) 2.0/2.0 MB 9.7 MB/s eta 0:00:00
Installing collected packages: kafka-python, faker
  WARNING: The script faker.exe is installed in 'C:\Users\ANIKET\AppData\Roaming\Python\Python312\Scripts' which is not on PATH.
    Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
Successfully installed faker-40.1.0 kafka-python-2.3.0

[notice] A new release of pip is available: 23.2.1 -> 25.3
[notice] To update, run: python.exe -m pip install --upgrade pip
```

C:\Users\ANIKET>

Create < Previous Next >

29°C Sunny

Search

12:11 04-01-2026

Home >

ecommerce-namespace

Event Hubs Namespace

Summarize properties of this Event Hubs Namespace. Show me metrics for this Event Hubs Namespace. List current consumers of this Event Hubs Namespace.

Search Event Hub Delete Refresh Give feedback

Overview

You can start generating test data or inspect data that has already been sent with the new Azure Event Hubs Data Explorer. Click on this message to try the feature!

JSON View

Essentials

Resource group (move)	: rg-commerce-realtime	Created	: Sunday, January 4, 2026 at 12:31:22 GMT+5:30
Status	: Succeeded	Updated	: Sunday, January 4, 2026 at 12:31:51 GMT+5:30
Location	: West Europe	Zone Redundancy	: Enabled
Subscription (move)	: Azure subscription 1	Pricing tier	: Standard
Subscription ID	: d4b8bb35-e70a-42c3-81aa-37827fb8bbf3	Throughput Units	: 1 unit
Host name	: ecommerce-namespacee.servicebus.windows.net	Auto-inflate throughput ...	: Disabled
		Local Authentication	: Enabled

Tags ([edit](#)) : [Add tags](#)

NAMESPACE CONTENTS: 0 EVENT HUBS | KAFKA SURFACE: ENABLED | ZONE REDUNDANCY: ENABLED

Show data for the last: 1 hour 6 hours 12 hours 1 day 7 days 30 days

Requests

100
90
80
70
60

Messages

100
90
80
70
60

Throughput

100B
90B
80B
70B
60B

Add or remove favorites by pressing **Ctrl+Shift+F**

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portal.azure.com/#view/Microsoft_Azure_EventHub/EventHubFullScreenCreateBlade/namespaceld/%2Fsubscriptions%2Fd4b8bb35-e70a-42c3-81aa-37827fb8bbf3%2FresourceGroups%2F...

Microsoft Azure Upgrade Search resources, services, and docs (G+) Copilot 1 ? ? ? ? aniketsingh007cl@gmail.com DEFAULT DIRECTORY (ANIKETSIN...

Home > ecommerce-namespace >

Create Event Hub

Event Hubs

Basics Capture Review + create

Event Hub Details

Enter required settings for this event hub, including partition count and message retention.

Name * ① ecommerce-orders

Partition count ① 1

Retention

Configure retention settings for this Event Hub. [Learn more](#)

Cleanup policy ① Delete

Retention time (hrs) * ① 1 min. 1 hour, max. 168 hours (7days)

Review + create < Previous Next: Capture >

4 30°C Sunny Search                 ENG IN 12:43 04-01-2026

realtime-e-commerce-insights X +

This PC > Windows-SSD (C:) > Users > ANIKET > realtime-e-commerce-insights-azure >

Search realtime-e-commerce-insights-azure

New Sort View Details

Name	Date modified	Type	Size
databricks_notebooks	04-01-2026 13:06	File folder	
powerbi	04-01-2026 13:06	File folder	
simulator	04-01-2026 13:06	File folder	
.git	04-01-2026 13:15	File folder	
README	04-01-2026 13:12	Markdown Source ...	0 KB

Home
Gallery
OneDrive - Personia
Desktop
Downloads
Documents
Pictures
Music
Videos
docs
real-time-stocks
DB_PIC

OneDrive
This PC
Windows-SSD (C:
Network

5 items

MINGW64:/c/Users/ANIKET/realtime-e-commerce-insights-azure

```
ANIKET@LAPTOP-DG67TDO6 MINGW64 ~
$ mkdir realtime-e-commerce-insights-azure
ANIKET@LAPTOP-DG67TDO6 MINGW64 ~
$ cd realtime-e-commerce-insights-azure
bash: cd: realtime-e-commerce-insights-azure: No such file or directory
ANIKET@LAPTOP-DG67TDO6 MINGW64 ~
$ cd realtime-e-commerce-insights-azure
ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure
$ mkdir databricks_notebooks simulator powerbi
ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure
$ git init
Initialized empty Git repository in C:/Users/ANIKET/realtime-e-commerce-insights-azure/.git/
ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure (master)
$ touch README.md
ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure (master)
$ git add .
```

31°C Sunny

Search

13:15 04-01-2026

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Search realtime-e-commerce-insights-azure

New Sort View Details

	Name	Date modified	Type	Size
Home				
Gallery	databricks_notebooks	04-01-2026 13:06	File folder	
OneDrive - Personia	powerbi	04-01-2026 13:06	File folder	
	simulator	04-01-2026 13:06	File folder	
Desktop	.git	04-01-2026 13:16	File folder	
Downloads	README	04-01-2026 13:12	Markdown Source ...	0 KB
Documents				
Pictures				
Music				
Videos				
docs				
real-time-stocks				
DB_PIC				
OneDrive				
This PC				
Windows-SSD (C:				
Network				

MINGW64:/c/Users/ANIKET realtime-e-commerce-insights-azure

```
$ cd realtime-e-commerce-insights-azure
ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure
$ mkdir databricks_notebooks simulator powerbi
ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure
$ git init
Initialized empty Git repository in C:/Users/ANIKET/realtime-e-commerce-insights-azure/.git/
ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure (master)
$ touch README.md
ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure (master)
$ git add .

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure (master)
$ git commit -m "Initial folder structure"
[master (root-commit) d7de42e] Initial folder structure
 1 file changed, 0 insertions(+), 0 deletions(-)
  create mode 100644 README.md
ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure (master)
```

5 items

31°C Sunny

Search

13:17 04-01-2026

File Edit Selection View Go Run Terminal Help ← → Q realtime-commerce-insights-azure

EXPLORER

REALTIME-ECOMMERCE-INSIGHTS-AZURE

- > databricks_notebooks
- > powerbi
- > simulator
- generate_orders.py
- README.md

```
simulator > generate_orders.py > ...
1 import json
2 import random
3 import time
4 from datetime import datetime
5 from faker import Faker
6 from kafka import KafkaProducer
7
8 fake = Faker()
9
10 # Azure Event Hub credentials
11 BOOTSTRAP_SERVERS = 'ecommerce-namespacdee.servicebus.windows.net:9093'
12 EVENT_HUB_CONNECTION_STRING = 'Endpoint=sb://ecommerce-namespacdee.servicebus.windows.net/;SharedAccessKeyName=RootManageSharedAccessKey&SharedAccessKey=...&EntityPath=...&TransportType=AMQP'
13 EVENT_HUB_NAME = '<<event_hub_name>>'
14
15 producer = KafkaProducer([
16     bootstrap_servers=BOOTSTRAP_SERVERS,
17     security_protocol='SASL_SSL',
18     sasl_mechanism='PLAIN',
19     sasl_plain_username='${ConnectionString}',
20     sasl_plain_password=EVENT_HUB_CONNECTION_STRING,
21     value_serializer=lambda v: json.dumps(v).encode('utf-8')
22 ])
23
24 categories = ['Electronics', 'Books', 'Clothing', 'Home Decor', 'Toys']
25 locations = [
26     {"city": "New York", "state": "NY", "lat": 40.7128, "lon": -74.0060},
27     {"city": "Los Angeles", "state": "CA", "lat": 34.0522, "lon": -118.2437},
28     {"city": "Chicago", "state": "IL", "lat": 41.8781, "lon": -87.6298},
29     {"city": "Houston", "state": "TX", "lat": 29.7604, "lon": -95.3698},
30     {"city": "Phoenix", "state": "AZ", "lat": 33.4484, "lon": -112.0740}
31 ]
32
33 def generate_order():
34     location = random.choice(locations)
35     category = random.choice(categories)
36     price = round(random.uniform(10, 2000), 2)
37     quantity = random.randint(1, 5)
```

master* AWS: profile=default

Search

Ln 18, Col 28 Spaces: 4 UTF-8 CRLF {} Python 3.12.0 19:59 05-01-2026

Breaking news
US vice presiden...

ENG IN

File Edit Selection View Go Run Terminal Help ← → Q realtime-commerce-insights-azure

EXPLORER

REALTIME-ECOMMERCE-INSIGHTS-AZURE

- databricks_notebooks
- powerbi
- simulator
- generate_orders.py
- README.md

```
simulator > generate_orders.py > ...
1 import json
2 import random
3 import time
4 from datetime import datetime
5 from faker import Faker
6 from kafka import KafkaProducer
7
8 fake = Faker()
9
10 # Azure Event Hub credentials
11 BOOTSTRAP_SERVERS = 'ecommerce-namespacdee.servicebus.windows.net:9093'
12 EVENT_HUB_CONNECTION_STRING = 'Endpoint=sb://ecommerce-namespacdee.servicebus.windows.net/;SharedAccessKeyName=RootManageSharedAccessKey&SharedAccessKey=...&TransportType=AMQP'
13 EVENT_HUB_NAME = 'ecommerce-orders'
14
15 producer = KafkaProducer(
16     bootstrap_servers=BOOTSTRAP_SERVERS,
17     security_protocol='SASL_SSL',
18     sasl_mechanism='PLAIN',
19     sasl_plain_username='${ConnectionString}',
20     sasl_plain_password=EVENT_HUB_CONNECTION_STRING,
21     value_serializer=lambda v: json.dumps(v).encode('utf-8')
22 )
23
24 categories = ['Electronics', 'Books', 'Clothing', 'Home Decor', 'Toys']
25 locations = [
26     {"city": "New York", "state": "NY", "lat": 40.7128, "lon": -74.0060},
27     {"city": "Los Angeles", "state": "CA", "lat": 34.0522, "lon": -118.2437},
28     {"city": "Chicago", "state": "IL", "lat": 41.8781, "lon": -87.6298},
29     {"city": "Houston", "state": "TX", "lat": 29.7604, "lon": -95.3698},
30     {"city": "Phoenix", "state": "AZ", "lat": 33.4484, "lon": -112.0740}
31 ]
32
33 def generate_order():
34     location = random.choice(locations)
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36     price = round(random.uniform(10, 2000), 2)
37     quantity = random.randint(1, 5)
```

master* AWS: profile=default

Ln 13, Col 35 Spaces: 4 UTF-8 CRLF {} Python 3.12.0 20:02 05-01-2026

Top Stories
Former BCCI offi...

Search

20:02 05-01-2026

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Search realtime-e-commerce-insights-azure

New Sort View Details

Name	Date modified	Type	Size
Home			
Gallery			
OneDrive - Persona	databricks_notebooks	File folder	
	powerbi	File folder	
	simulator	File folder	
Desktop	.git	File folder	
Downloads	README	Markdown Source ...	0 KB
Documents			
Pictures			
Music			
Videos			
docs			
real-time-stocks-m			
DB_PIC			
OneDrive			
This PC			
Windows-SSD (C:			
Network			

MINGW64:/c/Users/ANIKET/realtime-e-commerce-insights-azure

```
ANIKET@LAPTOP-DG67TDO6 MINGW64 ~
$ mkdir realtime-e-commerce-insights-azure
ANIKET@LAPTOP-DG67TDO6 MINGW64 ~
$ cd realtime-e-commerce-insights-azure
ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure
$ mkdir databricks_notebooks simulator powerbi
ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure
$ git init
Initialized empty Git repository in C:/Users/ANIKET/realtime-e-commerce-insights-azure/.git/
ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure (master)
$ touch README.md
ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure (master)
$ git add .
ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure (master)
$ git commit -m
error: switch 'm' requires a value
ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure (master)
$ git commit -m "Initial folder structure"
[master (root-commit) 8567176] Initial folder structure
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 README.md
ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure (master)
$ |
```

5 items

29°C Sunny

Search

13:16 11-01-2026

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EXPLORER

REALTIME-ECOMMERCE-INSIGHTS-AZURE

- databricks_notebooks
- powerbi
- simulator

generate_orders.py

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\ANIKET\realtime-commerce-insights-azure\simulator> python simulator.py

PS C:\Users\ANIKET\realtime-commerce-insights-azure\simulator> python .\generate_orders.py

Streaming fake U.S. e-commerce orders to Azure Event Hub...

Sent: {
 'order_id': '00541179-509b-40c0-94e6-0a317f701aa5',
 'timestamp': '2026-01-11T08:21:57.913735',
 'customer_id': 'fdc3025d-632b-42cf-aa01-efa5da6f2c40',
 'product_id': '00b3857a-0132-47bb-a14d-55e41e3d01f3',
 'category': 'Toys',
 'price': 791.78,
 'quantity': 5,
 'total_amount': 3958.9,
 'city': 'Chicago',
 'state': 'IL',
 'country': 'USA',
 'latitude': 41.8781,
 'longitude': -87.6298,
 'delivery_status': 'Cancelled'}

Sent: {
 'order_id': '6c48623a-c3d8-4a64-9d74-83b7d/bdc56',
 'timestamp': '2026-01-11T08:22:00.149731',
 'customer_id': '99e2e478-85fa-4ead-9456-5f1f83eb562c',
 'product_id': '8814ea6d-10fa-4c81-b506-92962a4b5b03',
 'category': 'Home Decor',
 'price': 1787.46,
 'quantity': 2,
 'total_amount': 3574.92,
 'city': 'Los Angeles',
 'state': 'CA',
 'country': 'USA',
 'latitude': 34.0522,
 'longitude': -118.2437,
 'delivery_status': 'Processing'}

Sent: {
 'order_id': '739932fd-3b42-4cc7-9a98-6699d4e11a2e',
 'timestamp': '2026-01-11T08:22:02.155880',
 'customer_id': '5fcf21cb-e52b-4a5d-90ab-5085f2797abe',
 'product_id': 'fe7d0fd3-394f-4b91-adad-5892ac70aeb2',
 'category': 'Books',
 'price': 144.21,
 'quantity': 5,
 'total_amount': 721.05,
 'city': 'Houston',
 'state': 'TX',
 'country': 'USA',
 'latitude': 29.7604,
 'longitude': -95.3698,
 'delivery_status': 'Processing'}

Sent: {
 'order_id': '05cd0261-3a46-45cc-b6ba-65574f9f1e3a',
 'timestamp': '2026-01-11T08:22:04.161731',
 'customer_id': '906e0048-e599-46f6-b8b2-2d9f001eb113',
 'product_id': '42c6b264-e250-40b1-b25f-45000feb511e',
 'category': 'Electronics',
 'price': 1554.12,
 'quantity': 5,
 'total_amount': 7700.6,
 'city': 'Phoenix',
 'state': 'AZ',
 'country': 'USA',
 'latitude': 33.4484,
 'longitude': -112.074,
 'delivery_status': 'Processing'}

Sent: {
 'order_id': 'd266c6a5-e7ad-43cd-a87e-427a02d2ce1a',
 'timestamp': '2026-01-11T08:22:06.175616',
 'customer_id': '3132036c-0764-428f-bcee-f138fb32f87e',
 'product_id': '29f02972-d29c-4fa0-bd1b-29e6241b3ce5',
 'category': 'Home Decor',
 'price': 1849.01,
 'quantity': 4,
 'total_amount': 7396.04,
 'city': 'Los Angeles',
 'state': 'CA',
 'country': 'USA',
 'latitude': 34.0522,
 'longitude': -118.2437,
 'delivery_status': 'Shipped'}

Sent: {
 'order_id': '11a71b97-b76d-4796-ba33-8f204b5b68a3',
 'timestamp': '2026-01-11T08:22:08.188637',
 'customer_id': '67c25cff-cd14-4b52-85c3-e21d44efcade',
 'product_id': '83864610-cb86-4880-a1bc-9127400d4255',
 'category': 'Home Decor',
 'price': 204.63,
 'quantity': 5,
 'total_amount': 1023.15,
 'city': 'New York',
 'state': 'NY',
 'country': 'USA',
 'latitude': 40.7128,
 'longitude': -74.006,
 'delivery_status': 'Delivered'}

Sent: {
 'order_id': 'a8153153-7dde-4d58-b012-57f4d390e084',
 'timestamp': '2026-01-11T08:22:10.195703',
 'customer_id': '533fc716-2529-4bd3-8b27-314832fd15d8',
 'product_id': '993205f2-6a09-424f-846f-6f0b26ba0680',
 'category': 'Home Decor',
 'price': 1793.46,
 'quantity': 3,
 'total_amount': 5380.38,
 'city': 'Houston',
 'state': 'TX',
 'country': 'USA',
 'latitude': 29.7604,
 'longitude': -95.3698,
 'delivery_status': 'Cancelled'}

aws

master* 29°C Sunny 0 0 AWS: profile:default

Search

13:52 11-01-2026

File Edit Selection View Go Run Terminal Help ← → Q realtime-commerce-insights-azure

EXPLORER

REALTIME-ECOMMERCE-INSIGHTS-AZURE

- > databricks_notebooks
- > powerbi
- > simulator
- generate_orders.py
- README.md

generate_orders.py

```
simulator > generate_orders.py > ...
1 import json
2 import random
3 import time
4 from datetime import datetime
5 from faker import Faker
6 from kafka import KafkaProducer
7
8 fake = Faker()
9
10 # Azure Event Hub credentials
11 BOOTSTRAP_SERVERS = 'ecommerce-namespacdee.servicebus.windows.n
12 EVENT_HUB_CONNECTION_STRING = 'Endpoint=sb://ecommerce-namespac
13 EVENT_HUB_NAME = 'ecommerce-orders'
14
15 producer = KafkaProducer(
16     bootstrap_servers=BOOTSTRAP_SERVERS,
17     security_protocol='SASL_SSL',
18     sasl_mechanism='PLAIN',
19     sasl_plain_username='${ConnectionString}',
20     sasl_plain_password=EVENT_HUB_CONNECTION_STRING,
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PDMIS

PS C:\Users\ANIKET\realtime-commerce-insights-azure\simulator> python .\generate_orders.py

```
product_id': 'e1eddf34-64f4-405a-9806-c48b0d0a9f70', 'category': 'Books', 'latit
z', 'country': 'USA', 'latitude': 33.4484, 'longitude': -112.074, 'deliv
Sent: {'order_id': '51d80cd1-e566-4594-bb16-dca16b56e37e', 'timestamp': '2026-01-11T08:28:43.803527', 'customer_id': '91c7858b-44d8-42db-924a-a782afa14dea', 'product_id': 'ae273b97-3ed6-4af2-bbd6-d642031c70b5', 'category': 'Clothing', 'latit
'IL', 'country': 'USA', 'latitude': 41.8781, 'longitude': -87.6298, 'deliv
Sent: {'order_id': '24b0d604-1b82-467d-acac-4f07adc42d75', 'timestamp': '2026-01-11T08:28:39.777181', 'customer_id': '0a5b2708-efb1-46f9-9e25-1acb72d58458', 'product_id': 'b3e8c504-575a-4f46-b0ca-0dbb9c53b87f', 'category': 'Toys', 'price': 817.89, 'quantity': 4, 'total_amount': 3271.56, 'city': 'Los Angeles', 'state': 'CA', 'country': 'USA', 'latitude': 34.0522, 'longitude': -118.2437, 'delivery_status': 'Delivered'}
Sent: {'order_id': '1166006f-5b63-40a0-86fd-541854660a44', 'timestamp': '2026-01-11T08:28:41.790435', 'customer_id': '52b924db-94bd-45c3-9705-ba43b9be5143', 'product_id': '43819437-10a7-41ac-b9a7-9bc055adf168', 'category': 'Toys', 'price': 591.3, 'quantity': 4, 'total_amount': 2365.2, 'city': 'Chicago', 'state': 'IL', 'country': 'USA', 'latitude': 41.8781, 'longitude': -87.6298, 'delivery_status': 'Shipped'}
Sent: {'order_id': '10bf2d75-b67f-4fd9-8e23-668dd1070a11', 'timestamp': '2026-01-11T08:28:43.803527', 'customer_id': '91c7858b-44d8-42db-924a-a782afa14dea', 'product_id': '23dce68b-aa72-4d2e-a6c2-1389db3eba65', 'category': 'Clothing', 'price': 944.51, 'quantity': 3, 'total_amount': 2833.53, 'city': 'New York', 'state': 'NY', 'country': 'USA', 'latitude': 40.7128, 'longitude': -74.006, 'delivery_status': 'Shipped'}
```

Ln 13, Col 35 Spaces: 4 UTF-8 CRLF {} Python Select Interpreter

USD/INR +0.37%

Search

13:58 11-01-2026

New Tab Create a storage account - Mic +

portal.azure.com/#create/Microsoft.StorageAccount

Microsoft Azure Upgrade Search resources, services, and docs (G+J) Copilot

aniketsingh007cl@gmail.com DEFAULT DIRECTORY (ANIKETSIN...)

Home > Storage center | Blob Storage >

Create a storage account

[View automation template](#)

Basics

Subscription	Azure subscription 1
Resource group	rg-eCommerce-realtime
Location	West Europe
Storage account name	ecommercestoragee
Preferred storage type	
Performance	Standard
Replication	Locally-redundant storage (LRS)

Advanced

Enable hierarchical namespace	Disabled
Enable SFTP	Disabled
Enable network file system v3	Disabled
Allow cross-tenant replication	Disabled
Access tier	Hot
Enable large file shares	Enabled
Managed Identity for SMB	Disabled

[Previous](#) [Next](#) [Create](#) [Give feedback](#)

9 26°C Mostly clear  Search         

^ 🔍 ⌂ ENG IN 19:45 16-01-2026

New Tab A ecommercestoragee_1768572905182 +

portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2Fd4b8bb35-e70a-42c3-81aa-37827fb8bbf3%2FresourceGroups%2Frg-e-commerce-realtime/deployment/e... Download Star Copy Copilot 1 Settings Help Print Default Directory (aniketsingh007cl...)

Microsoft Azure Upgrade Search resources, services, and docs (G+) Copilot

Home > **ecommercestoragee_1768572905182 | Overview** ...

Deployment

Search Delete Cancel Redeploy Download Refresh

Overview Inputs Outputs Template

Your deployment is complete

Deployment name: ecommercestoragee_1768572905182
Subscription: Azure subscription 1
Resource group: rg-e-commerce-realtime

Start time: 1/16/2026, 7:46:14 PM
Correlation ID: 63ebb868-666b-4803-ac2a-d35de83f88d3 Copy

Deployment details

Next steps

[Go to resource](#)

Give feedback

[Tell us about your experience with deployment](#)

Cost Management
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9 26°C Mostly clear Windows Start Search Pepper icon File icon Folder icon Phone icon Task View icon Bookmark icon Code icon Google Chrome icon Microphone icon Up arrow Down arrow Left arrow Right arrow Wi-Fi icon Signal icon Battery icon ENG IN 19:46 16-01-2026

Deployment succeeded
Deployment 'ecommercestoragee_1768572905182' to resource group 'rg-e-commerce-realtime' was successful.

[Go to resource](#) [Pin to dashboard](#)

New Tab New container - Microsoft Azure

portal.azure.com/#@aniketsingh007cld@gmail.onmicrosoft.com/resource/subscriptions/d4b8bb35-e70a-42c3-81aa-37827fb8bbf3/resourcegroups/rg-e-commerce-realtime/providers/...

Microsoft Azure Upgrade Search resources, services, and docs (G+)

Copilot 1 1 ? 🔍 aniketsingh007cld@gmail... DEFAULT DIRECTORY (ANIKETSIN...)

Home > ecommercestoragee_176857290518 | Overview > ecommercestoragee

ecommercestoragee | Containers

Storage account

Search Add container Upload Refresh Delete Change access level Restore containers Edit columns

Search containers by prefix

Showing all 1 items

Name	Last modified
\$logs	1/16/2026, 7:30 AM

Advanced

Create Give feedback

9 26°C Mostly clear Search Windows Start File Explorer Task View File Manager Phone Microsoft Edge Microsoft Store Microsoft Edge Dev Google Chrome

19:49 16-01-2026

New container

Name * ecommerce

Anonymous access level Private (no anonymous access)

The access level is set to private because anonymous access is disabled on this storage account.

Advanced

Create Give feedback

New Tab ecommercestoragee - Microsoft Edge +

portal.azure.com/#@aniketsingh007cld@gmail.onmicrosoft.com/resource/subscriptions/d4b8bb35-e70a-42c3-81aa-37827fb8bbf3/resourcegroups/rg-e-commerce-realtime/providers/...

Microsoft Azure Upgrade Search resources, services, and docs (G+) Copilot

aniketsingh007cld@gmail... DEFAULT DIRECTORY (ANIKETSIN...)

Home > ecommercestoragee_1768572905182 | Overview > ecommercestoragee

ecommercestoragee | Containers

Storage account

Search Add container Upload Refresh Delete Change access level Restore containers Edit columns

Search containers by prefix Only show active containers

Showing all 2 items

<input type="checkbox"/>	Name	Last modified	Anonymous access level	Lease state
<input type="checkbox"/>	\$logs	1/16/2026, 7:46:50 PM	Private	Available
<input type="checkbox"/>	ecommerce	1/16/2026, 7:50:16 PM	Private	Available

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Storage Mover

Partner solutions

Resource visualizer

Data storage

Containers

File shares

Queues

Tables

Security + networking

Data management

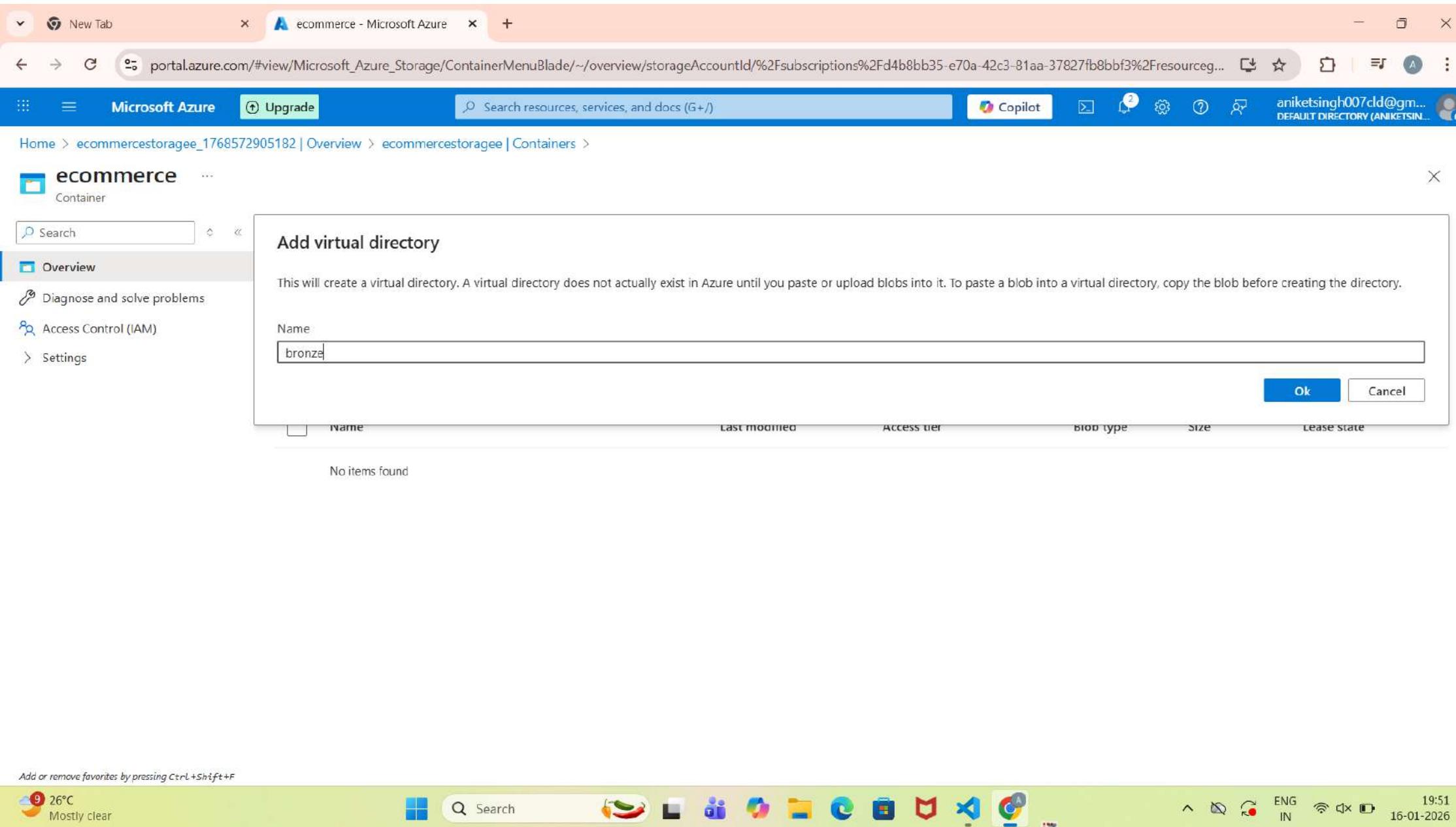
Settings

Add or remove favorites by pressing **Ctrl+Shift+F**

9 26°C Mostly clear

Search Windows Start Pepper File Explorer PowerShell Task View File Manager Phone Microsoft Edge Bookmarks Visual Studio Code Google Chrome Calculator

ENG IN 19:50 16-01-2026



New Tab x A ecommerce - Microsoft Azure +

portal.azure.com/#view/Microsoft_Azure_Storage/ContainerMenuBlade/~/overview/storageAccountId/%2Fsubscriptions%2Fd4b8bb35-e70a-42c3-81aa-37827fb8bbf3%2Fresourceg... ↴ ⭐ 📁 ⏷ ⏵ A :

Microsoft Azure Upgrade Search resources, services, and docs (G+) Copilot 5 🔍 ⚙️ ⓘ ⌂ 🔍 DEFAULT DIRECTORY (ANIKETSIN...)

Home > ecommercestoragee_1768572905182 | Overview > ecommercestoragee | Containers >

ecommerce Container

Search Add Directory Upload Change access level Refresh Delete Copy Paste Rename Acquire lease Break lease Edit columns

Overview ecommerce

Diagnose and solve problems

Access Control (IAM)

Settings

Authentication method: Access key ([Switch to Microsoft Entra user account](#))

Add filter

Search blobs by prefix (case-sensitive) Only show active blobs

Showing all 3 items

<input type="checkbox"/>	Name	Last modified	Access tier	Blob type	Size	Lease state
<input type="checkbox"/>	bronze					
<input type="checkbox"/>	gold					
<input type="checkbox"/>	silver					

Add or remove favorites by pressing **Ctrl+Shift+F**

9 26°C Mostly clear

Search

19:57 16-01-2026

New Tab x Azure Databricks - Microsoft A... +

portal.azure.com/#browse/Microsoft.Databricks%2Fworkspaces

Microsoft Azure [Upgrade](#) Search resources, services, and docs (G+)

Copilot 5 Notifications Settings Help Print aniketsingh007cl@gmail.com DEFAULT DIRECTORY (ANIKETSIN...)

Home >

Azure Databricks

Filter Azure Databricks Services by resource group and location. List all Azure Databricks Services in my subscription using ARG. Identify Azure Databricks Services with high costs using ARG.

Default Directory (aniketsingh007cl@gmail.onmicrosoft.com)

+ Create Manage view Refresh Export to CSV Open query Assign tags Add to service group Group by none

You are viewing a new version of Browse experience. Click here to access the old experience.

Filter for any field... Subscription equals all Resource Group equals all Location equals all Add filter

No azure databricks services to display

Unlock insights from all your data and build artificial intelligence (AI) solutions with Azure Databricks, set up your Apache Spark environment in minutes, autoscale, and collaborate on shared projects in an interactive workspace.

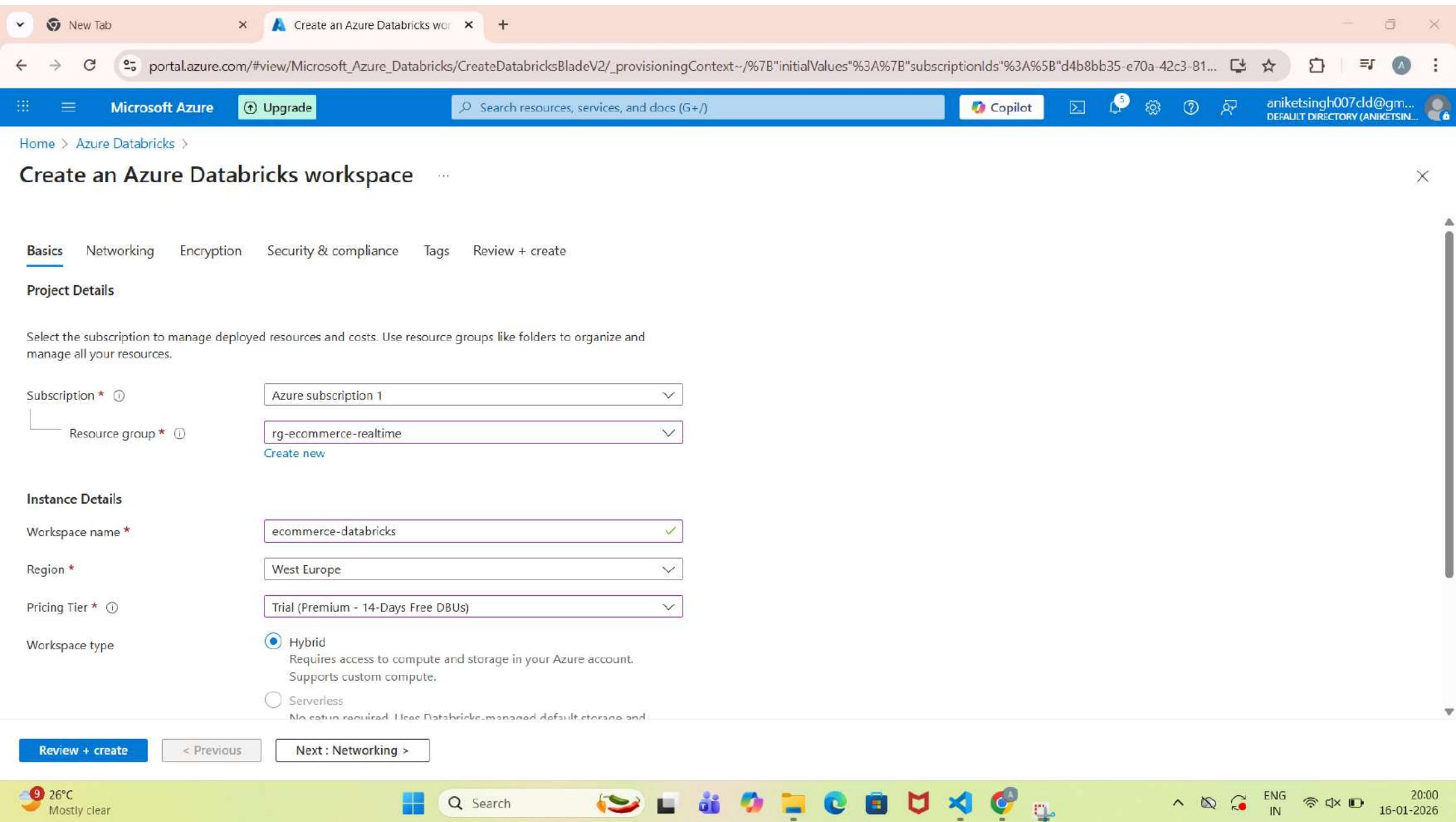
+ Create Learn more

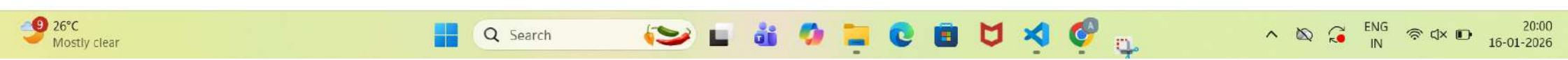
Showing 1 - 0 of 0. Display count: auto ▾ Give feedback

9 26°C Mostly clear

Search

16-01-2026 19:59





New Tab

ecommerce-databricks - Microsoft Edge

portal.azure.com/#@aniketsingh007cl@gmail.onmicrosoft.com/resource/subscriptions/d4b8bb35-e70a-42c3-81aa-37827fb8bbf3/resourceGroups/rg-e-commerce-realtime/providers/...

Microsoft Azure Upgrade Search resources, services, and docs (G+/-) Copilot 6 7 8 9 10 aniketsingh007cl@gmail.com DEFAULT DIRECTORY (ANIKETSIN...)

Home > rg-e-commerce_realtime_ecommerce-databricks | Overview

ecommerce-databricks

Azure Databricks Service

Search Delete

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Settings

Automation

Help

Status : Active

Resource group : rg-e-commerce-realtime

Location : West Europe

Subscription : Azure subscription 1

Subscription ID : d4b8bb35-e70a-42c3-81aa-37827fb8bbf3

Tags (edit) : Add tags

Workspace type : Hybrid

Managed Resource Group : databricks-rg-e-commerce-databricks-guts7gp7asgw4

URL : <https://adb-74056100613936455.azure.databricks.net>

Pricing Tier : Trial (Premium - 14-Days Free DBUs) (Click to change)

Enable No Public IP : Yes

JSON View

Launch Workspace

Upgrade to Premium

Documentation

Getting Started

Import Data from File

Import Data from Azure Storage

Add or remove favorites by pressing Ctrl+Shift+F

9 27°C Mostly clear

Search

20:06 16-01-2026

New Tab | ecommerce-databricks - Microsoft Edge | Databricks

adb-7405610061393645.5.azuredatabricks.net/?o=7405610061393645&l=en

Microsoft Azure | databricks

ecommerce-databricks

+ New

Workspace

Recents

Catalog

Jobs & Pipelines

Compute

Marketplace

SQL

SQL Editor

Queries

Dashboards

Genie

Alerts

Query History

SQL Warehouses

Data Engineering

Job Runs

Data Ingestion

AI/ML

Playground

Experiments

27°C Mostly clear

Search

Welcome to Databricks

Search data, notebooks, recents, and more... CTRL + P

Set up your workspace

Follow this step-by-step guide that walks you through setting up the workspace for your new Databricks account.

Get started

Suggested

Favorites

Popular

Mosaic AI

What's new

No suggestions yet

20:06
ENG IN
16-01-2026

New Tab | ecommerce-databricks - Microsoft Edge | Create Cluster - Databricks | +

adb-7405610061393645.5.azure.databricks.net/compute/clusters/new?o=7405610061393645

Microsoft Azure | databricks

Search data, notebooks, recents, and more... CTRL + P

ecommerce-databricks

+ New

Compute > New compute > Simple form: ON

Create new compute

General

Compute name: ecommerce-cluster

Policy: Unrestricted

Performance

Machine learning

Databricks runtime: 17.3 LTS Scala 2.13, Spark 4.0.0

Photon acceleration

Preferred worker type: Standard_D4ds_v5 16 GB Memory, 4 Cores

Workers: 1 Single node

⚠ This account may not have enough CPU cores to satisfy this request

Estimated available: 4, requested: 8
[Learn more about CPU quota.](#)

Enable autoscaling

Terminate after 120 minutes of inactivity

Create **Cancel**

Summary: 16 GB Memory, 4 Cores

Data access: Unity Catalog

Price: 2 DBU/h

UI JSON

Workspace

Recents

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Jobs & Pipelines

Compute

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SQL Editor

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Query History

SQL Warehouses

Data Engineering

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AI/ML

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Experiments

27°C Mostly clear

Search

20:10 16-01-2026

The screenshot shows the Microsoft Azure Databricks Cluster Details page for the cluster 'ecommerce-cluster'. The left sidebar lists various navigation options like Workspace, Recents, Catalog, Jobs & Pipelines, Compute (selected), Marketplace, SQL, Genie, Alerts, Query History, and SQL Warehouses. The main content area displays the cluster configuration under the 'Configuration' tab. It includes sections for General (Compute name: ecommerce-cluster, Policy: Unrestricted) and Performance (Machine learning: off, Databricks runtime: 17.3 LTS, Photon acceleration: off). The 'Preferred node type' is set to Standard_D4ds_v5 with 16 GB Memory, 4 Cores, and a Single node selected. A checkbox for terminating the cluster after 10 minutes of inactivity is checked. An 'Advanced performance' dropdown is also present. On the right, a summary panel shows 16 GB Memory, 4 Cores, Data access to Unity Catalog, and a price of 1 DBU/h. The top navigation bar shows the URL as adb-7405610061393645.5.azuredatabricks.net/compute/clusters/0116-144901-jkqsnvsi?o=7405610061393645.

New Tab ecommercestoragee - Microsoft 01_stream_orders_to_bronze.py +

portal.azure.com/#@aniketsingh007cl@gmail.onmicrosoft.com/resource/subscriptions/d4b8bb35-e70a-42c3-81aa-37827fb8bbf3/resourceGroups/rg-commerce-realtime/providers/Microsoft...

Microsoft Azure Upgrade Search resources, services, and docs (G+) Copilot 6 notifications ? globe user

Home > Storage center | Blob Storage >

Storage center | Blob Storage

Default Directory (aniketsingh007cl@gmail.onmicrosoft.com)

Search Overview Resources + Create Restore ...

You are viewing a new version of Browse experience. Click here to access the old experience.

Name ↑ dbstorageojpwgtecmlr3g ecommercestoragee

Showing 1 - 2 of 2. Display count: auto

Add or remove favorites by pressing Ctrl+Shift+F

ecommercestoragee

Storage account

Search Upload Open in Explorer Delete Move Refresh ... JSON View

Overview

- Activity log
- Tags
- Diagnose and solve problems
- Access Control (IAM)
- Data migration
- Events
- Storage browser
- Storage Mover
- Partner solutions
- Resource visualizer
- Data storage
 - Containers
 - File shares
 - Queues
 - Tables
- Security + networking

Essentials

Resource group (move)	Performance
rg-commerce-realtime	Standard
Location	Replication
westeurope	Locally-redundant storage (LRS)
Subscription (move)	Account kind
Azure subscription 1	StorageV2 (general purpose v2)
Subscription ID	Provisioning state
d4b8bb35-e70a-42c3-81aa-37827fb8bbf3	Succeeded
Disk state	Created
Available	1/16/2026, 7:46:24 PM

Properties Monitoring Capabilities (7) Recommendations (0) Tutorials

Tools + SDKs

Blob service

- Hierarchical namespace
- Disabled
- Default access tier

Security

- Require secure transfer for REST API operations
- Enabled

26°C Clear Search Chillies Cloud File Globe Phone Taskbar Bookmark Code Google Up arrow Down arrow Left arrow Right arrow ENG IN 21:13 16-01-2026

The screenshot shows two open browser tabs in Microsoft Edge. The top tab is titled 'ecommercestoragee - Microsoft' and the bottom tab is titled '01_stream_orders_to_bronze.py'. The main content area displays the Microsoft Azure interface.

Storage center | Blob Storage (Left Panel):

- Default Directory (aniketsingh007cl@gmail.onmicrosoft.com)
- Search bar
- Overview
- All storage resources
- Object storage
- File storage
- Block storage
- Data management
- Migration
- Partner solutions
- Management services
- Help

Resources (Selected Tab):

- + Create
- Restore
- ...

You are viewing a new version of Browse experience. Click here to access the old experience.

Table Headers: Name ↑

Name	Type
dbstoragegeojpwgtecmlr3g	
ecommercestoragee	

Showing 1 - 2 of 2. Display count: auto

Add or remove favorites by pressing Ctrl+Shift+F

ecommercestoragee | Access keys (Right Panel):

Storage account: ecommercestoragee

Search bar, Set rotation reminder, Refresh, Give feedback buttons.

Access keys authenticate your applications' requests to this storage account. Keep your keys in a secure location like Azure Key Vault, and replace them often with new keys. The two keys allow you to replace one while still using the other.

Remember to update the keys with any Azure resources and apps that use this storage account. Learn more about managing storage account access keys.

Storage account name: ecommercestoragee

key1 (Rotate key) Last rotated: 1/16/2026 (0 days ago)
Key: Aadl2XvCpB5mjEm+jW3zDGI0FIBlnBTKRIAlwam8eBOTd+XBMr9nQx0iFqOE... (Copy to clipboard, Hide)

Connection string: (Show)

key2 (Rotate key) Last rotated: 1/16/2026 (0 days ago)
Key: (Show)

Connection string: (Show)

Add or remove favorites by pressing Ctrl+Shift+F

New Tab | ecommerce - Microsoft Azure | 01_stream_orders_to_bronze.py | +

adb-7405610061393645.5.azuredatabricks.net/editor/notebooks/3331130934661492?o=7405610061393645#command/752398821604935

Microsoft Azure | databricks

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ecommerce-databricks

+ New

Workspace

Recents

Catalog

Jobs & Pipelines

Compute

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SQL Editor

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Dashboards

Genie

Alerts

Query History

SQL Warehouses

Data Engineering

Job Runs

Data Ingestion

AI/ML

Playground

Experiments

26°C Clear

File Edit View Run Help Python Tabs: ON Last edit was 3 minutes ago

Run all Serverless Schedule Share

Python

```
#Library
from pyspark.types import *
from pyspark.sql.functions import *

#Schema of dataset

schema = StructType([
    StructField('order_id', StringType()),
    StructField('timestamp', StringType()),
    StructField('customer_id', StringType()),
    StructField('product_id', StringType()),
    StructField('category', StringType()),
    StructField('price', DoubleType()),
    StructField('quantity', IntegerType()),
    StructField('total_amount', DoubleType()),
    StructField('city', StringType()),
    StructField('state', StringType()),
    StructField('country', StringType()),
    StructField('latitude', StringType()),
    StructField('longitude', StringType()),
    StructField('delivery_status', StringType()),
])
]

# Azure Event Hub Configuration
event_hub_namespace = "ecommerce-namespacee.servicebus.windows.net"
```

21:22 ENG IN 16-01-2026

New Tab | ecommerce - Microsoft Azure | Compute - Databricks | +

adb-7405610061393645.5.azuredatabricks.net/compute/interactive?o=7405610061393645

Microsoft Azure | databricks

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ecommerce-databricks

+ New

Compute

All-purpose compute Job compute SQL warehouses Vector Search Pools Policies Apps Lakebase Provisioned

Filter compute you have access to Created by Only pinned Create with Personal Compute Create compute

State	Name	Policy	Runtime	Active mem...	Active cores	Active DBU ...	Source	Creator	Notebooks
Running	ecommerce-cluster	-	17.3	-	-	1	UI	Aniket Singh	-

Previous Next 20 / page

25°C Clear

Search

Windows Start

Chili Pepper

File

PowerShell

Teams

OneDrive

Phone

Windows

Bookmarks

Visual Studio

Google Chrome

21:46

ENG IN

16-01-2026

New Tab | ecommerce - Microsoft Azure | Compute - Databricks | +

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Microsoft Azure | databricks | Search data, notebooks, recents, and more... | CTRL + P | ecommerce-databricks | ☰ | ☰ | ☰ | ☰

Compute

All-purpose compute | Job compute | SQL warehouses | Vector Search | Pools | Policies | Apps | Lakebase Provisioned •

Filter compute you have access to | Created by | Only pinned | Create with Personal Compute | Create compute

State	Name	Policy	Runtime	Active mem...	Active cores	Active DBU ...	Source	Creator	Notebooks
●	ecommerce-cluster	-	17.3	16 GB	4 cores	1	UI	Aniket Singh	-

Previous | Next | 20 / page

Navigation:

- Workspace
- Recents
- Catalog
- Jobs & Pipelines
- Compute** (selected)
- Marketplace
- SQL
- SQL Editor
- Queries
- Dashboards
- Genie
- Alerts
- Query History
- SQL Warehouses
- Data Engineering
- Job Runs
- Data Ingestion
- AI/ML
- Playground
- Experiments

System Status:

- 25°C Clear
- Search
- Chili Pepper
- File
- Folder
- Phone
- Windows Start
- Bookmark
- Code
- Google Chrome

ENG IN | 21:52 | 16-01-2026

New Tab | ecommerce - Microsoft Azure | Compute - Databricks | +

adb-7405610061393645.5.azuredatabricks.net/compute/interactive?o=7405610061393645

Microsoft Azure | databricks | Search data, notebooks, recents, and more... | CTRL + P | ecommerce-databricks | ☰ | ☰ | ☰ | ☰

Compute

All-purpose compute | Job compute | SQL warehouses | Vector Search | Pools | Policies | Apps | Lakebase Provisioned •

Filter compute you have access to | Created by | Only pinned | Create with Personal Compute | Create compute

State	Name	Policy	Runtime	Active mem...	Active cores	Active DBU ...	Source	Creator	Notebooks
●	ecommerce-cluster	-	17.3	16 GB	4 cores	1	UI	Aniket Singh	-

Previous | Next | 20 / page

Navigation:

- Workspace
- Recents
- Catalog
- Jobs & Pipelines
- Compute** (selected)
- Marketplace
- SQL**
- SQL Editor
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- Dashboards
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System Status:

- 25°C Clear
- Search
- Chili Pepper
- File
- Folder
- Phone
- Windows Start
- Bookmark
- Code
- Google Chrome

ENG IN | 21:52 | 16-01-2026

New Tab | ecommerce - Microsoft Azure | 01_stream_orders_to_bronze.py | +

adb-7405610061393645.5.azuredatabricks.net/editor/notebooks/3331130934661492?o=7405610061393645#command/752398821604935

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ecommerce-databricks

+ New

Workspace

File Edit View Run Help Python Tabs: ON Last edit was 38 minutes ago

Serverless

Active resources

ecommerce-cluster 17.3 LTS

More...

Create new resource...

schema = StructType([
 StructField('order_id', StringType()),
 StructField('timestamp', StringType()),
 StructField('customer_id', StringType()),
 StructField('product_id', StringType()),
 StructField('category', StringType()),
 StructField('price', DoubleType()),
 StructField('quantity', IntegerType()),
 StructField('total_amount', DoubleType()),
 StructField('city', StringType()),
 StructField('state', StringType()),
 StructField('country', StringType()),
 StructField('latitude', StringType()),
 StructField('longitude', StringType()),
 StructField('delivery_status', StringType()),
])

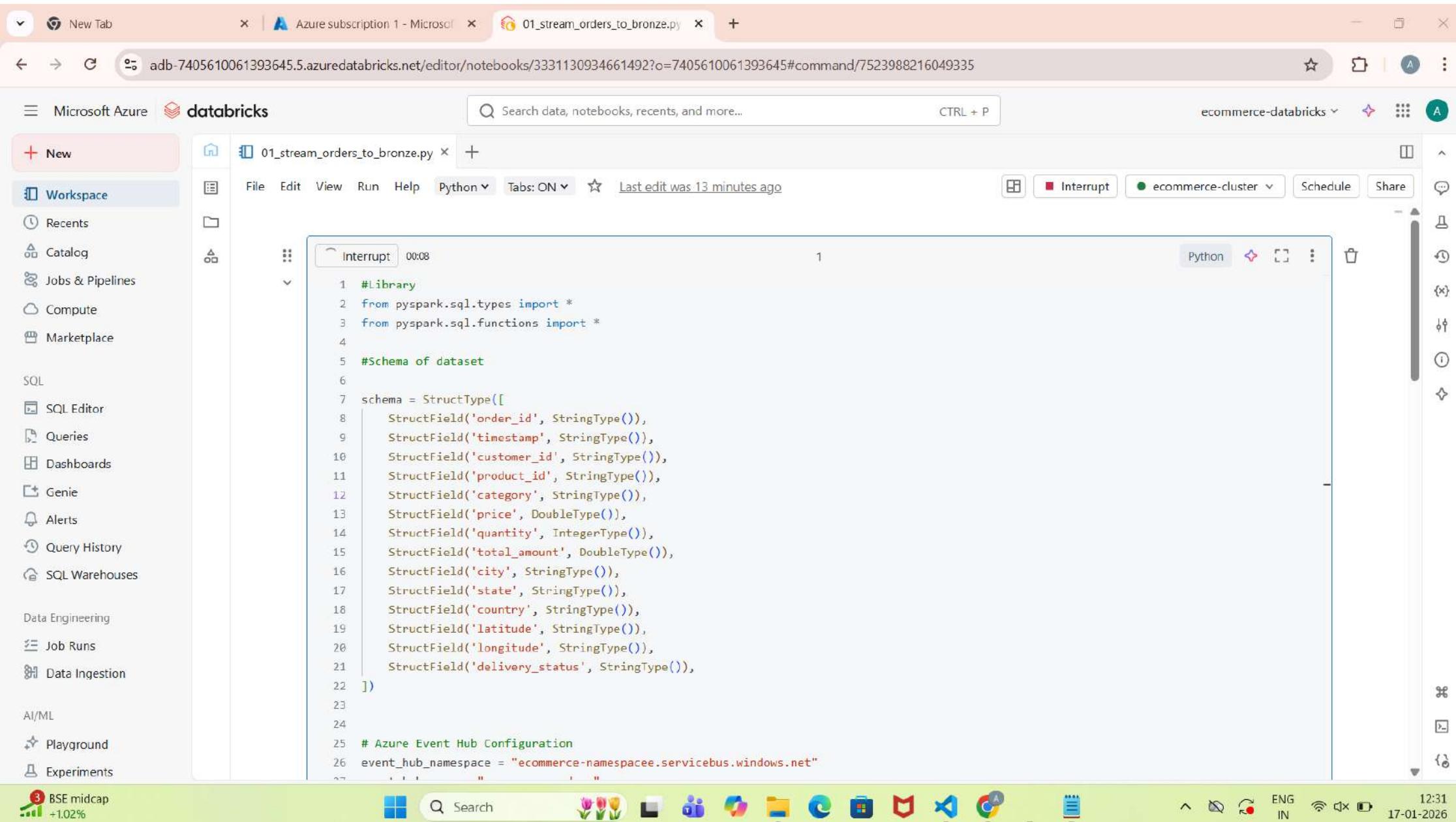
Azure Event Hub Configuration
event_hub_namespace = "ecommerce-namespace.servicebus.windows.net"
event_hub_name = "ecommerce-orders"
event_hub_conn_str = "Endpoint=sb://ecommerce-namespace.servicebus.windows.net/;SharedAccessKeyName=RootManageSharedAccessKey;
SharedAccessKey=3dACFK15IwhGimA5h+eV/B59Qdr/c1OS++AEhKVH39w="

eh_conf = {
 'kafka.bootstrap.servers': f'{event_hub_namespace}:9093',
 'subscribe': event_hub_name,
}

25°C Clear

Search

21:56 16-01-2026



New Tab | Azure subscription 1 - Microsoft | 01_stream_orders_to_bronze.py | +

adb-7405610061393645.5.azuredatabricks.net/editor/notebooks/3331130934661492?o=7405610061393645#command/752398821604935

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SQL Warehouses

Data Engineering

Job Runs

Data Ingestion

AI/ML

Playground

Experiments

01_stream_orders_to_bronze.py

Last execution failed

File Edit View Run Help Python Tabs: ON Last edit was 19 minutes ago

Run all ecommerce-cluster Schedule Share

Python

1

```
58 )
59
60
61 bronze_path = "abfss://ecommerce@ecommercestoragee.dfs.core.windows.net/bronze"
62
63 (
64     df_orders.writeStream
65         .format('delta')
66         .outputMode("append")
67         .option("checkpointLocation",bronze_path+"/_checkpoint")
68         .start(bronze_path)
69 )
70
```

1 > UnknownException: (org.apache.hadoop.fs.FileAlreadyExistsException) Operation failed: "This endpoint does not support BlobStorageEvents or SoftDelete. Please disable these account features if you would like to use this endpoint.", 409, HEAD, , https://ecommercestoragee.dfs.core.windows.net/ecommmerce/?upn=false&action=getAccessControl&timeout=90

...

Diagnose error Debug Assistant Quick Fix: ON

[Shift+Enter] to run and move to next cell
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Search

12:37 17-01-2026

New Tab ecommercestoragee - Microsoft 01_stream_orders_to_bronze.py +

portal.azure.com/#@aniketsingh007cld@gmail.onmicrosoft.com/resource/subscriptions/d4b8bb35-e70a-42c3-81aa-37827fb8bbf3/resourceGroups/rg-commerce-realtime/providers/Micro... Copilot 1 ? ? ? ? ? ? ? ?

Microsoft Azure Upgrade Search resources, services, and docs (G+)

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Shared access signature

Encryption

Microsoft Defender for Cloud

Data management

Storage Actions

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Data protection

Object replication

Blob inventory

Recovery

Enable Azure Backup for blobs

Enable point-in-time restore for containers

Enable soft delete for blobs

Soft delete enables you to recover blobs that were previously marked for deletion, including blobs that were overwritten. [Learn more](#)

⚠️ Disabling soft delete removes protection against accidental deletion and overwrites. Future deletions and overwrites won't be recoverable. Existing soft-deleted blobs remain recoverable until their retention period ends, and storage charges will apply.

Enable soft delete for containers

Soft delete enables you to recover containers that were previously marked for deletion. [Learn more](#)

⚠️ Disabling soft delete removes protection against accidental deletion and overwrites. Future deletions and overwrites won't be recoverable. Existing soft-deleted containers remain recoverable until their retention period ends, and storage charges will apply.

Enable permanent delete for soft deleted items

Tracking

Enable versioning for blobs

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Add or remove favorites by pressing **Ctrl+Shift+F**

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Interrupt

```
bronze_path = "abfss://ecommerce@ecommercestoragee.dfs.core.windows.net/bronze"
(
    df_orders.writeStream
    .format("delta")
    .outputMode("append")
    .option("checkpointLocation",bronze_path+"/_checkpoint")
    .start(bronze_path)
)
(1) Spark Jobs
562bb90d-e992-4e69-a83b-11234719b2d7 Last updated: 5 seconds ago
df_orders: pyspark.sql.connect.DataFrame = [order_id: string, timestamp: string ... 12 more fields]
df_raw: pyspark.sql.connect.DataFrame = [key: binary, value: binary ... 5 more fields]
<pyspark.sql.connect.streaming.query.StreamingQuery at 0x7f826ef22f30>
```

[Shift+Enter] to run and move to next cell
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Last updated: 0 seconds ago

df_orders: pyspark.sql.connect.dataframe.DataFrame = [order_id: string, timestamp: string ... 12 more fields]

df_raw: pyspark.sql.connect.dataframe.DataFrame = [key: binary, value: binary ... 5 more fields]

<pyspark.sql.connect.streaming.query.StreamingQuery at 0x7f826ef22f30>

Just now (7s)

df_bronze = spark.read.format("delta").load(bronze_path)
display(df_bronze)

(6) Spark Jobs

df_bronze: pyspark.sql.connect.dataframe.DataFrame = [order_id: string, timestamp: string ... 12 more fields]

Table

order_id	timestamp	customer_id	product_id	category
4ef477bd-853c-4ea2-8a6d-0b90438a958b	2026-01-17T07:37:28.008981	9fc362c8-433c-46c9-87f5-542d16857d4d	22ff11fb-1e85-4722-9c0d-224d507fb655	Books
5b50b3a4-3dc0-4c89-b05b-ad9fdfd54bf4	2026-01-17T07:37:30.019539	a533de67-599b-41b8-a352-094d4f463a82	94514ffc-143c-4424-afae-043bfba979d8	Home Decor
365d4c2f-8da4-4835-b8dc-688c0479a60e	2026-01-17T07:37:32.021028	688c5504-42b8-4130-b53b-d5d148e233f0	6de7fc92-5404-406f-b445-8a969107f44c	Electronics
3a422c44-bfb4-4c42-87c6-16fb953b7533	2026-01-17T07:37:34.022174	fb698702-934e-4753-86d7-e181e440ec17	91c4f1b0-672b-4ca6-a401-b4776d373580	Electronics
ddbc57ce-36f4-4e23-9874-c49645004c37	2026-01-17T07:37:36.023519	b7d2a250-c83c-48de-9630-5b878fc414c4	7160f75d-ed1d-4332-941b-2074302e8788	Electronics
dd9f94d0-7ba9-4370-b314-81b7d7dd33...	2026-01-17T07:37:38.024647	4adaa21ed-255f-414b-836c-286315b32507	cec7de82-c04c-4a50-88ff-07bbf0385334	Electronics
a9ee292c-26f8-4544-90bc-264514977f81	2026-01-17T07:37:40.025532	df8a6a50-c176-4142-b22d-13e8055a16bd	f1700d1c-f733-4bbd-b651-883c5ce5b44c	Home Decor
bf9c6a36-3984-40b9-9090-ba6f55973b5d	2026-01-17T07:37:42.027003	56fdc3b4-5400-4bbe-9e27-7908db5fe305	dd7d5541-37c2-43a9-9331-c6c192017f8d	Books
5558fea6-7e72-4237-865a-8e4c84dd662c	2026-01-17T07:37:44.027738	5cd42408-658c-4614-8bda-ad6d5caa48c7	f84e8b67-ef43-4f32-a981-c63a7e798047	Books

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13:19 17-01-2026

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01_stream_orders_to_bronze.py

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01_bronze: pyspark.sql.connect(dataframe.DataFrame = [order_id: string, timestamp: string ... 12 more fields])

Table

	timestamp	customer_id	product_id	category	1.2 price
540	7cf-46c4-9018-2a041dbb0430	2015acd1-c937-48fb-b5f4-e58cbaca2b01	7185ba2f-87ae-4450-935c-96b70f3e98eb	Clothing	10
541	9bb-4a6d-853b-1f9f22edbfbca	2af7f2d1-0c11-47ec-864c-4dc676ef2aff	db4a352f-0a13-43f6-a591-658aabbeed9c	Clothing	12
542	2a-45dc-99df-1a37a186a2c7	349c66a8-86c4-4dff-833a-63032c1b5ae0	01a6aacf-e69b-4cbd-be3c-a2e6a221a56c	Clothing	1
543	6d1-4969-a4a9-8cb80151a8da	d4f7c466-552d-4a01-b83e-ef555b56c372	b32f12d9-6186-4b62-9123-a304372a59ef	Clothing	3
544	7c-49f9-8fe7-72fad59b54e0	0bdaae5b-aafa-42ec-bec5-69b30ee6d6c6	35846648-11b5-49c5-a041-ac8d6663fc55	Clothing	14
545	ab-43b9-b546-73e0b8ca0ffd	ef3012c7-efa2-411f-b5a8-aec1515e743e	> d8b4160b-3ba8-4d2d-8023-0b8537d...	Home Decor	6
546	j19-4ff3-abe3-905b3d3cb772	3f206a4c-e69f-4034-a569-b974f57c60a4	73d71cfe-8531-4992-ba0f-031c937d0365	Home Decor	15
547	db-4552-a6ef-e3b9c6673b52	37da6e18-eb84-46e0-b87d-5f327785a399	7d89f4ad-7a62-436c-bea1-c7faadbbe742	Home Decor	15
548	d76-441d-a341-e94f9e7b705f	59d8afde-b3fc-4ff3-9b59-ce49c9eca93	c90a9ba1-abb5-44f6-8c2f-dfcecbdd701a	Books	4
549	bc6-4dd0-b5fe-c97f65cf219f	57dd1a22-eb47-4919-baea-b057d0fa8cec	> bd1032e4-5a98-42a8-bd87-9a903dc7...	Home Decor	11
550	9fd-4cda-b5db-6b401b90634b	80922b67-3e92-47c4-8f67-fd07f14086cf	b3ad1ae0-7acb-44d5-9e4a-eaf64520ca18	Clothing	18
551	ie8-44ba-a0d8-7f00b7157092	504f3a52-a7b9-475d-b125-b435dc1e0df0	5bd22994-4374-4c9a-93fc-c88ebd4a8851	Home Decor	18
552	089-4cf0-90d9-dc46bb567794	30885ccb-1c9c-4d62-a8c4-de1d9be966ea	c9596061-538b-423c-afec-1fb62b07a2ae	Home Decor	13
553	91-4cec-acc0-e8f5e9ea20b6	db551e51-7708-4c88-bf3a-4984eab08538	27396253-3ba6-460c-b1dc-a6252897952e	Clothing	7

980 rows | 7.43s runtime Refreshed 5 minutes ago

[Shift+Enter] to run and move to next cell

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Cloud Icons

13:25 IN 17-01-2026

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+ New  01_stream_orders_to_bronze.py  02_cleaned_values_silver +

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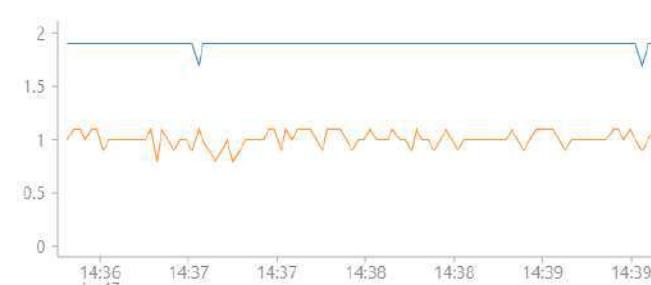
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Search

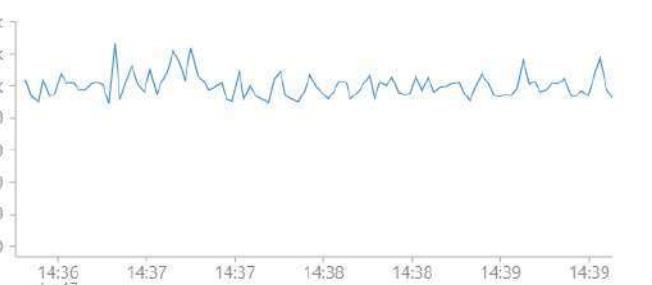
1 69)
70
(1) Spark Jobs 562bb90d-e992-4e69-a83b-11234719b2d7 Last updated: 5 seconds ago

Dashboard Raw Data

Input vs. Processing Rate records per second 1.9 rec/s 1.1 rec/s Input rate Processing rate



Batch Duration in milliseconds 1000.1 ms 924 ms Average Latest



> df_orders: pyspark.sql.connect.DataFrame = [order_id: string, timestamp: string ... 12 more fields]
> df_raw: pyspark.sql.connect.DataFrame = [key: binary, value: binary ... 5 more fields]
<pyspark.sql.connect.streaming.query.StreamingQuery at 0x7f826ef22f30>

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01_stream_orders_to_bronze.py 02_cleaned_values_silver +

Imports

```
from pyspark.sql.types import *
from pyspark.sql.functions import *
```

#configurations

```
spark.conf.set(
    "fs.azure.account.key.ecommercestoragee.dfs.core.windows.net",
    "Aad12XvCpB5mjEm+jW3zDGI0FIBlnBKTKRIAIwam8eBOTd+XBMr9nQx0iFq0ErP/O1E13CR6g57+ASp5V1+g=="
)
```

bronze_path = "abfss://ecommerce@ecommercestoragee.dfs.core.windows.net/bronze"

silver_path = "abfss://ecommerce@ecommercestoragee.dfs.core.windows.net/silver"

#Reading raw data from bronze

```
df_bronze=(
    spark.readStream
    .format("delta")
    .load(bronze_path)
)
```

#Clean and enrich

```
df_clean=(
    df_bronze
    .withColumn("timestamp",to_timestamp("timestamp"))
    .withColumn("price",when(col("price").isNull(),0.0).otherwise(col("price")))
)
```

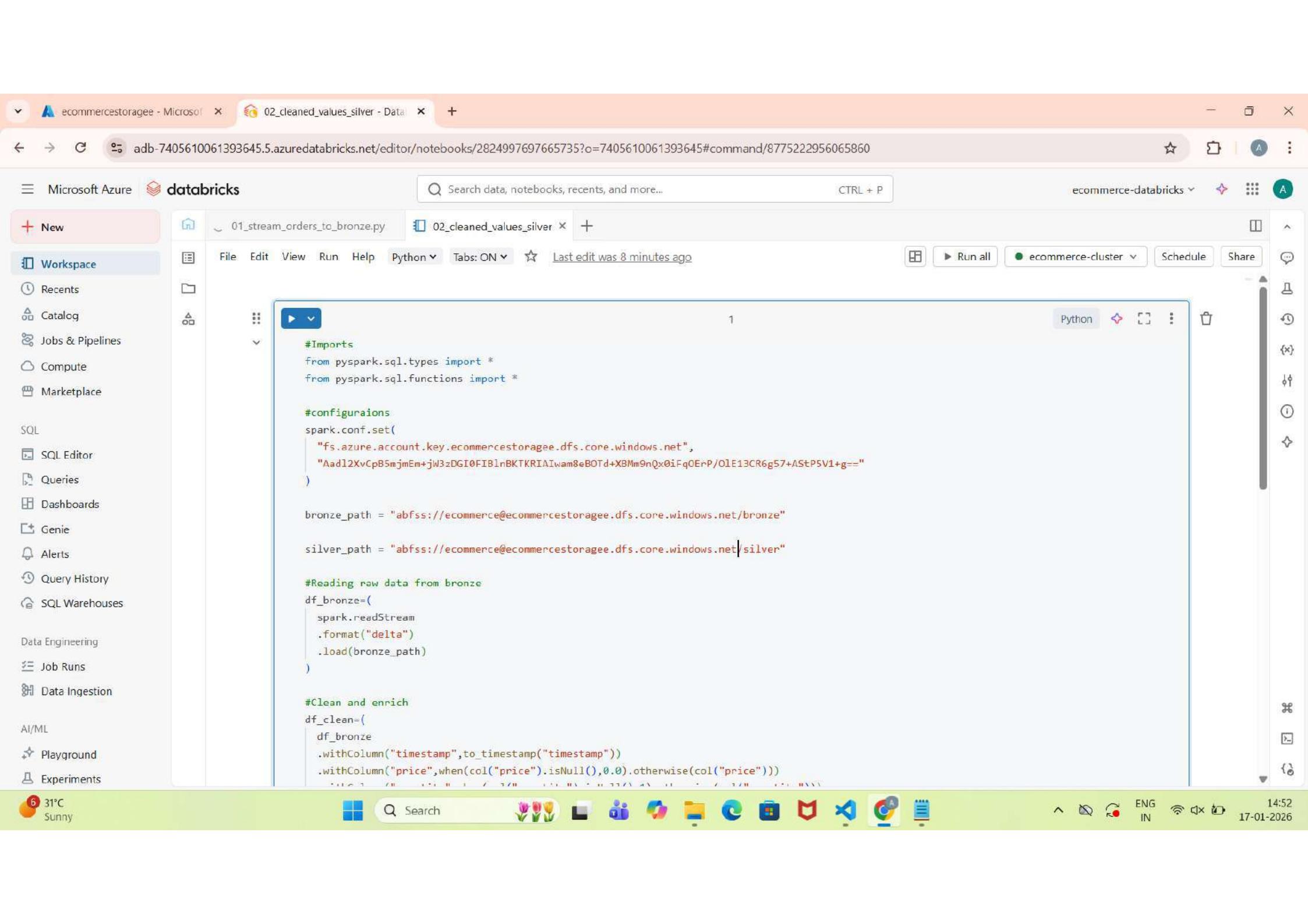
Python

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14:52 ENG IN 17-01-2026



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01_stream_orders_to_bronze.py 02_cleaned_values_silver +

Python

1

```
.format("delta")
.load(bronze_path)
)

#Clean and enrich
df_clean=(
    df_bronze
    .withColumn("timestamp",to_timestamp("timestamp"))
    .withColumn("price",when(col("price").isNull(),0.0).otherwise(col("price")))
    .withColumn("quantity",when(col("quantity").isNull(),1).otherwise(col("quantity")))
    .withColumn("total_amount",col("price")*col("quantity"))
    .dropDuplicates(["order_id"])
    .filter(col("country")=="USA")
    .filter(col("state").isNotNull())
)
#Write to Silver Layer
(
    df_clean.writeStream
    .format("delta")
    .outputMode("append")
    .option("checkpointLocation",silver_path+/_checkpoint")
    .start(silver_path)
)
```

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ecommercestoragee - Microsoft Azure Databricks - Data 03_aggregated_to_gold. - Data +

adb-7405610061393645.5.azuredatabricks.net/editor/notebooks/2824997697665736?o=7405610061393645#command/877522956065862

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Python

#Imports
from pyspark.sql.functions import *

#configurations
spark.conf.set(
 "fs.azure.account.key.ecommercestoragee.dfs.core.windows.net",
 "Aadl2XvCpB5mjEm+jW3zDGI0FIBlnBKTKRIAIwam8eBOTd+XBMs9nQx0iFq0ErP/O1E13CR6g57+ASp5V1+g=="
)

gold_path = "abfss://ecommerce@ecommercestoragee.dfs.core.windows.net/gold"

silver_path = "abfss://ecommerce@ecommercestoragee.dfs.core.windows.net/silver"

#Read from silver
df_silver=(
 spark.readStream
 .format("delta")
 .load(silver_path)
)

#Aggregation: Total sales and total items sold per state per minute
df_gold=(
 df_silver
 .withWatermark("timestamp","1 minute")
 .groupby(
 window("timestamp","1 minute"),
 "state")
 .agg(
 sum("sales").alias("total_sales"),
 sum("items").alias("total_items"))
 .select("window_start", "window_end", "state", "total_sales", "total_items")
 .writeStream
 .format("delta")
 .outputMode("complete")
 .start(gold_path))

df_gold.awaitTermination()

7 29°C Sunny

Search

17:07 17-01-2026

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1

```
.withColumn("total_amount", col("price")*col("quantity"))
.dropDuplicates(["order_id"])
.filter(col("country")=="USA")
.filter(col("state").isNotNull())
)
#Write to Silver Layer
(
    df_clean.writeStream
    .format("delta")
    .outputMode("append")
    .option("checkpointLocation",silver_path+/_checkpoint")
    .start(silver_path)
)
```

(1) Spark Jobs Stream initializing...

df_bronze: pyspark.sql.connect.dataframe.DataFrame = [order_id: string, timestamp: string ... 12 more fields]
df_clean: pyspark.sql.connect.dataframe.DataFrame = [order_id: string, timestamp: timestamp ... 12 more fields]

<pyspark.sql.connect.streaming.query.StreamingQuery at 0x7f9788338b30>

[Shift+Enter] to run and move to next cell

17:08 ENG IN 17-01-2026

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1

```
.withColumn("total_amount", col("price")*col("quantity"))
.dropDuplicates(["order_id"])
.filter(col("country")=="USA")
.filter(col("state").isNotNull())
)
#Write to Silver Layer
(
    df_clean.writeStream
    .format("delta")
    .outputMode("append")
    .option("checkpointLocation",silver_path+/_checkpoint")
    .start(silver_path)
)
```

(1) Spark Jobs Stream initializing...

df_bronze: pyspark.sql.connect.dataframe.DataFrame = [order_id: string, timestamp: string ... 12 more fields]
df_clean: pyspark.sql.connect.dataframe.DataFrame = [order_id: string, timestamp: timestamp ... 12 more fields]

<pyspark.sql.connect.streaming.query.StreamingQuery at 0x7f9788338b30>

[Shift+Enter] to run and move to next cell

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Interrupt

(1) Spark Jobs

aeca8289-9244-4bc5-a6ac-13f19302f681 Last updated: 25 seconds ago

df_bronze: pyspark.sql.connect.dataframe.DataFrame = [order_id: string, timestamp: string ... 12 more fields]

df_clean: pyspark.sql.connect.dataframe.DataFrame = [order_id: string, timestamp: timestamp ... 12 more fields]

<pyspark.sql.connect.streaming.query.StreamingQuery at 0x7f9788338b30>

2

Interrupt 00:31 Python

df_silver = spark.read.format("delta").load(silver_path)
display(df_silver)

(7) Spark Jobs

[Shift+Enter] to run and move to next cell
[Ctrl+Shift+P] to open the command palette
[Esc H] to see all keyboard shortcuts

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Python

display(df_silver)

(7) Spark Jobs

df_silver: pyspark.sql.connect.DataFrame = [order_id: string, timestamp: timestamp ... 12 more fields]

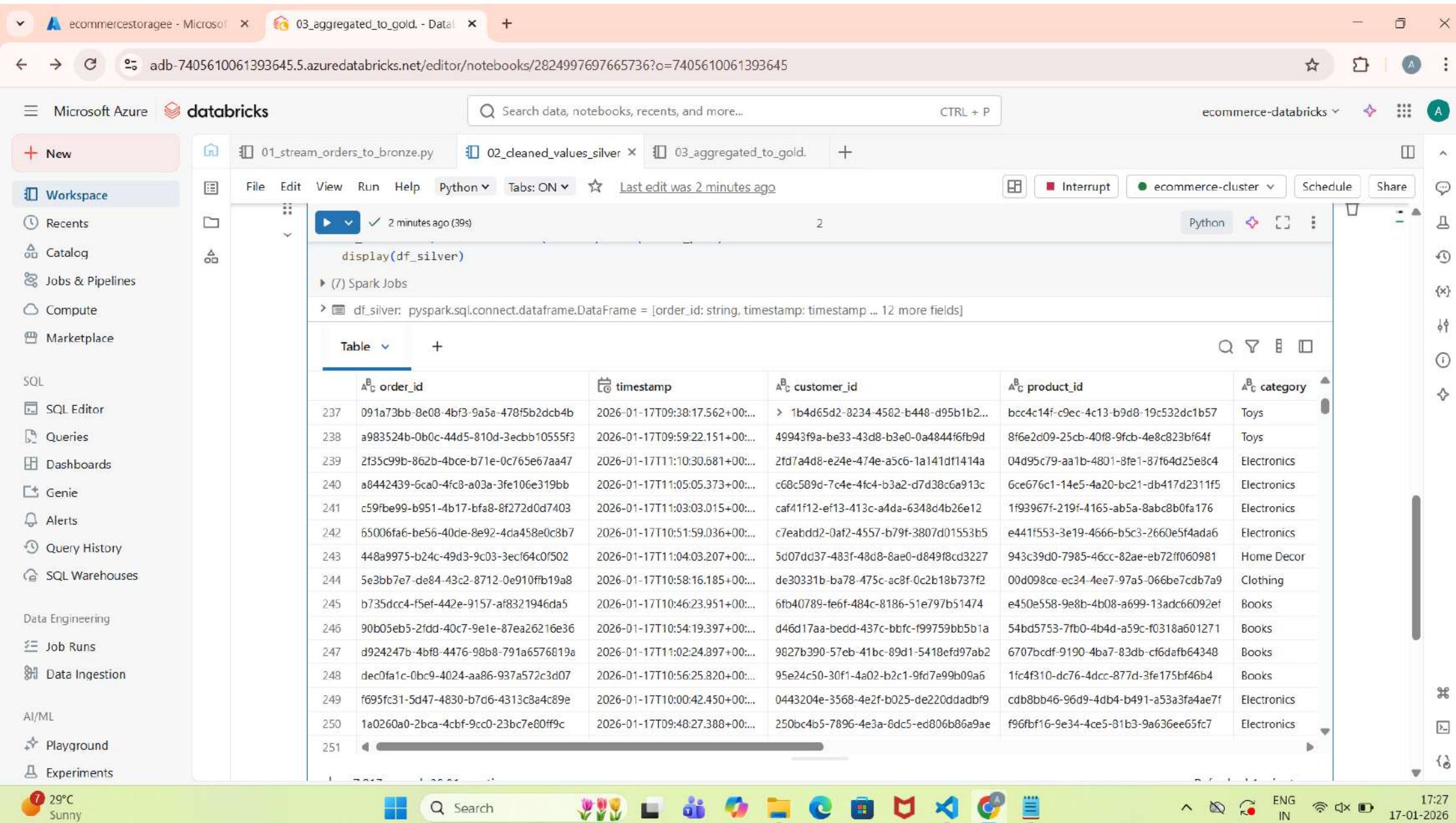
Table +

	rice	quantity	total_amount	city	state	country	latitude	longitude	delivery_status
1	618.03	4	2472.12	Los Angeles	CA	USA	34.0522	-118.2437	Shipped
2	1163.3	5	5816.5	Chicago	IL	USA	41.8781	-87.6298	Processing
3	292.42	4	1169.68	Chicago	IL	USA	41.8781	-87.6298	Processing
4	1388.97	4	5555.88	Houston	TX	USA	29.7604	-95.3698	Delivered
5	1545.39	4	6181.56	Phoenix	AZ	USA	33.4484	-112.074	Processing
6	1860.94	5	9304.7	Houston	TX	USA	29.7604	-95.3698	Delivered
7	546.58	4	2186.32	New York	NY	USA	40.7128	-74.006	Delivered
8	1532.72	3	4598.16	Phoenix	AZ	USA	33.4484	-112.074	Cancelled
9	1168.6	2	2337.2	New York	NY	USA	40.7128	-74.006	Cancelled
10	242.9	1	242.9	Chicago	IL	USA	41.8781	-87.6298	Shipped
11	1480.12	3	4440.36	Phoenix	AZ	USA	33.4484	-112.074	Shipped
12	397.14	5	1985.699999999998	Phoenix	AZ	USA	33.4484	-112.074	Shipped
13	1667.24	1	1667.24	Los Angeles	CA	USA	34.0522	-118.2437	Cancelled
14	865.59	5	4327.95	New York	NY	USA	40.7128	-74.006	Processing
15									

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01_stream_orders_to_bronze.py 02_cleaned_values_silver 03_aggregated_to_gold. +

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Python

1

Spark Jobs (1) aeca8289-9244-4bc5-a6ac-13f19302f681 Last updated: 15 seconds ago

Dashboard Raw Data

Input vs. Processing Rate records per second 0.5 rec/s Input rate 0.5 rec/s Processing rate

Batch Duration in seconds 8.3 s 8.6 s Average Latest

Aggregation State 8030 Distinct keys

df_bronze: pyspark.sql.connect.DataFrame = [order_id: string, timestamp: string ... 12 more fields]
df_clean: pyspark.sql.connect.DataFrame = [order_id: string, timestamp: timestamp ... 12 more fields]

<pyspark.sql.connect.streaming.query.StreamingQuery at 0x7f9788338b30>

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17:28 17-01-2026

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+ New  01_stream_orders_to_bronze.py  02_cleaned_values_silver  03_aggregated_to_gold. + 

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1  (1) Spark Jobs  Raw Data

aeca8289-9244-4bc5-a6ac-13f19302f681 Last updated: 10 seconds ago

```
{  
    "id": "aeca8289-9244-4bc5-a6ac-13f19302f681",  
    "runId": "5c5ee1e0-f5a4-4d67-a0cd-b82d1859c7f7",  
    "name": null,  
    "timestamp": "2026-01-17T11:59:24.927Z",  
    "batchId": 112,  
    "batchDuration": 9351,  
    "numInputRows": 4,  
    "inputRowsPerSecond": 0.5,  
    "processedRowsPerSecond": 0.4,  
    "durationMs": {  
        "addBatch": 8959,  
        "collectSourceMetrics": 60,  
        "commitBatch": 132,  
        "commitOffsets": 50,  
    },  
}
```

2  df_bronze: pyspark.sql.connect.dataframe.DataFrame = [order_id: string, timestamp: string ... 12 more fields]
df_clean: pyspark.sql.connect.dataframe.DataFrame = [order_id: string, timestamp: timestamp ... 12 more fields]

```
<pyspark.sql.connect.streaming.query.StreamingQuery at 0x7f9788338b30>
```

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01_stream_orders_to_bronze.py 02_cleaned_values_silver 03_aggregated_to_gold. x

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Run all ecommerce-cluster Schedule Share

#Imports
from pyspark.sql.functions import *

#configurations
spark.conf.set(
 "fs.azure.account.key.ecommercestoragee.dfs.core.windows.net",
 "Aadl2XvCpB5mjEm+jW3zDGI0FIBlnBKTKRIAIwam8eBOTd+XBMs9nQx0iFq0ErP/O1E13CR6g57+ASpP5V1+g=="
)

gold_path = "abfss://ecommerce@ecomercestoragee.dfs.core.windows.net/gold"

silver_path = "abfss://ecommerce@ecomercestoragee.dfs.core.windows.net/silver"

#Read from silver
df_silver=(
 spark.readStream
 .format("delta")
 .load(silver_path)
)

#Aggregation: Total sales and total items sold per state per minute
df_gold=(
 df_silver
 .withWatermark("timestamp","1 minute")
 .groupby(
 window("timestamp","1 minute"),
 "state")
 .agg(
 sum("sales").alias("total_sales"),
 sum("items").alias("total_items"))
 .select("window_start", "window_end", "state", "total_sales", "total_items")
)

df_gold.writeStream
 .format("delta")
 .outputMode("append")
 .option("checkpointLocation", gold_path)
 .start(gold_path)

Python

1

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17:30 17-01-2026

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Python

1

```
.groupby(
    window("timestamp","1 minute"),
    "state"
)
.agg(
    sum("total_amount").alias("total_sales"),
    sum("quantity").alias("total_items")
)
.select(
    col("window.start").alias("window_start"),
    col("window.end").alias("window_end"),
    "state",
    "total_sales",
    "total_items"
)

# Write to gold layer
(
    df_gold.writeStream
    .format("delta")
    .outputMode("append")
    .option("checkpointLocation",gold_path+"/_checkpoint")
    .start(gold_path)
)
```

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1

```
.agg(
    sum("total_amount").alias("total_sales"),
    sum("quantity").alias("total_items")
)
.select(
    col("window_start").alias("window_start"),
    col("window_end").alias("window_end"),
    "state",
    "total_sales",
    "total_items"
)
# Write to gold layer
(
    df_gold.writeStream
    .format("delta")
    .outputMode("append")
    .option("checkpointLocation",gold_path+"/_checkpoint")
    .start(gold_path)
)
```

(1) Spark Jobs 9c1c0f1d-002e-41fe-b7fb-15cfb12eed62 Last updated: 35 seconds ago

df_gold: pyspark.sql.connect.DataFrame = window_start: timestamp, window_end: timestamp ... 3 more fields!

Search

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```
> 9c1c0f1d-002e-41fe-b7fb-15cfb12eed62 df_gold: pyspark.sql.connect.DataFrame = [window_start: timestamp, window_end: timestamp ... 3 more fields]
> df_silver: pyspark.sql.connect.DataFrame = [order_id: string, timestamp: timestamp ... 12 more fields]
<pyspark.sql.connect.streaming.Query at 0x7f909bf0170>
```

2 minutes ago (49s)

```
df_gold = spark.read.format("delta").load(gold_path)
df_gold.display()
```

(4) Spark Jobs

```
df_gold: pyspark.sql.connect.DataFrame = [window_start: timestamp, window_end: timestamp ... 3 more fields]
```

Table +

	window_start	window_end	state	1.2 total_sales	1.3 total_items
1	2026-01-17T07:37:00.000+00:00	2026-01-17T07:38:00.000+00:00	TX	18862.75	13
2	2026-01-17T08:34:00.000+00:00	2026-01-17T08:35:00.000+00:00	IL	19565.4600000000...	16
3	2026-01-17T08:53:00.000+00:00	2026-01-17T08:54:00.000+00:00	CA	19239.0399999999...	28
4	2026-01-17T08:55:00.000+00:00	2026-01-17T08:56:00.000+00:00	TX	5976.879999999999	7
5	2026-01-17T10:28:00.000+00:00	2026-01-17T10:29:00.000+00:00	CA	13474.8300000000...	15
6	2026-01-17T08:57:00.000+00:00	2026-01-17T08:58:00.000+00:00	AZ	7311.03	8
7	2026-01-17T10:30:00.000+00:00	2026-01-17T10:31:00.000+00:00	CA	19961.65	16
8	2026-01-17T08:27:00.000+00:00	2026-01-17T08:28:00.000+00:00	IL	6552.67	9
9	2026-01-17T10:02:00.000+00:00	2026-01-17T10:03:00.000+00:00	NY	7454.94	13
10	2026-01-17T10:03:00.000+00:00	2026-01-17T10:07:00.000+00:00	TX	20212.8500000000...	20

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2 minutes ago (49s)

```
df_gold = spark.read.format("delta").load(gold_path)
df_gold.display()
```

(4) Spark Jobs

df_gold: pyspark.sql.connect.DataFrame = [window_start: timestamp, window_end: timestamp ... 3 more fields]

Table +

	window_start	window_end	state	total_sales	total_items
58	2026-01-17T09:19:00.000+00:00	2026-01-17T09:20:00.000+00:00	CA	19427.07	32
59	2026-01-17T07:54:00.000+00:00	2026-01-17T07:55:00.000+00:00	CA	10130.2	14
60	2026-01-17T08:51:00.000+00:00	2026-01-17T08:52:00.000+00:00	AZ	22203.65999999999...	18
61	2026-01-17T09:48:00.000+00:00	2026-01-17T09:49:00.000+00:00	CA	11567.41	17
62	2026-01-17T08:19:00.000+00:00	2026-01-17T08:20:00.000+00:00	AZ	22623.1199999999...	19
63	2026-01-17T09:01:00.000+00:00	2026-01-17T09:02:00.000+00:00	TX	17498.3099999999...	20
64	2026-01-17T10:36:00.000+00:00	2026-01-17T10:37:00.000+00:00	IL	13166.28	10
65	2026-01-17T08:50:00.000+00:00	2026-01-17T08:51:00.000+00:00	TX	26370.8799999999...	23
66	2026-01-17T10:40:00.000+00:00	2026-01-17T10:41:00.000+00:00	IL	9943.849999999999	9
67	2026-01-17T07:23:00.000+00:00	2026-01-17T07:24:00.000+00:00	NY	26712.89	28
68	2026-01-17T08:58:00.000+00:00	2026-01-17T08:59:00.000+00:00	CA	10272.9800000000...	9
69	2026-01-17T07:47:00.000+00:00	2026-01-17T07:48:00.000+00:00	NY	974.78	2
70	2026-01-17T09:37:00.000+00:00	2026-01-17T09:38:00.000+00:00	CA	7258.19	9
71	2026-01-17T07:13:00.000+00:00	2026-01-17T07:14:00.000+00:00	NY	18160.23	16

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(Interrupt 1 Python

(1) Spark Jobs 9c1c0f1d-002e-41fe-b7fb-15cfb12eed62 Last updated: 35 seconds ago

Dashboard Raw Data

Input vs. Processing Rate 0.4 rec/s 0.4 rec/s records per second Input rate Processing rate

Batch Duration in seconds 23.6 s 20.2 s Average Latest

Aggregation State 11 Distinct keys

120
100
80
60
40
20
0 17:32 Jan 17 17:34 17:36 17:38 17:40

80
60
40
20
0 17:32 Jan 17 17:34 17:36 17:38 17:40

800
600
400
200
0 17:32 Jan 17 17:34 17:36 17:38 17:40

> df_gold: pyspark.sql.connect.DataFrame = [window_start: timestamp, window_end: timestamp ... 3 more fields]
> df_silver: pyspark.sql.connect.DataFrame = [order_id: string, timestamp: timestamp ... 12 more fields]
<pyspark.sql.connect.streaming.query.StreamingQuery at 0x7f9098bf0170>

7 minutes ago (00:00)

Search

17:42 17-01-2026

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(Interrupt 1 Python

(1) Spark Jobs 9c1c0f1d-002e-41fe-b7fb-15cfb12eed62 Last updated: 35 seconds ago

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Aggregation State 11 Distinct keys

120
100
80
60
40
20
0 17:32 Jan 17 17:34 17:36 17:38 17:40

80
60
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20
0 17:32 Jan 17 17:34 17:36 17:38 17:40

800
600
400
200
0 17:32 Jan 17 17:34 17:36 17:38 17:40

> df_gold: pyspark.sql.connect.DataFrame = [window_start: timestamp, window_end: timestamp ... 3 more fields]
> df_silver: pyspark.sql.connect.DataFrame = [order_id: string, timestamp: timestamp ... 12 more fields]
<pyspark.sql.connect.streaming.query.StreamingQuery at 0x7f9098bf0170>

7 minutes ago (00:00)

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Table

	order_id	timestamp	customer_id	product_id	category
7904	173f59d8-1192-48c8-b8a6-fb5001661a00	2026-01-17T10:50:54.841+00:00	212717a2-b439-4343-b699-be1654043a0f	84778d25-ea6a-4695-8199-5799f3d59b93	Electronics
7905	15656e38-9fff-4764-8e99-bd47da8ae855	2026-01-17T10:53:11.201+00:00	4514cfe2-da5e-4c5d-ba53-3fe983bda3e7	5c1364d7-4b03-4c50-8af9-843938fc470	Toys
7906	a924a1de-f08a-4435-8429-51dd08f0a9da	2026-01-17T11:20:40.516+00:00	9ef7983a-8eb2-4a8e-8c42-4982a3815cb4	a6d8274f-e03c-4335-99f8-d35c2a59f82a	Clothing
7907	05f66000-8e48-4737-933c-0351e0a8ea38	2026-01-17T11:27:31.849+00:00	4ae5b438-d4f9-4117-b0c7-fd88cc60d611	a8136a85-362b-4003-a162-7310a119579e	Toys
7908	b6652219-91a5-46ce-a23e-ce5e1a5c974d	2026-01-17T11:27:45.912+00:00	624c266f-b38b-4af9-9d19-14debe567aa0	f0181b7f-6e91-4e1e-a926-8670ba027b64	Clothing
7909	08b1d10f-3834-40c4-9afb-763d5ede2592	2026-01-17T11:27:39.880+00:00	a4bd503f-b6ce-4c10-aa3c-edd35b90ebe9	7339f53d-290d-4fe8-ad47-5843bab6195	Books
7910	8946e59a-81e1-43f4-a6f4-979405dc051e	2026-01-17T07:43:04.827+00:00	2cab86c2-047b-4ddf-8e32-fcbbba361e606	0c186d95-40fe-4398-b2d1-054249d7d546	Clothing
7911	a7d3dd3a-5116-4998-a0eb-ab3769207fa8	2026-01-17T07:22:28.264+00:00	bb6c7fb4-3903-4326-a673-c86c25d95ad8	bc374be5-b3f1-4809-a32d-391455e36c6d	Toys
7912	1d5b2d27-040b-435f-acd6-c15fa2995326	2026-01-17T09:47:19.052+00:00	e3287ae2-66e9-4f5b-94b4-d808a2b14603	bab1a556-719e-4b94-81c1-acccb3d86413	Clothing
7913	88b7e4ce-3528-4737-b8e7-bc569ad9fca2	2026-01-17T09:58:58.066+00:00	d6f90414-bbb7-4ebe-b723-0999ca55bd2b	03560e8e-a2a4-437c-8206-1fe7d950f69e	Books
7914	d0db4145-89b6-4583-afb4-884e0fc47b8a	2026-01-17T11:39:22.068+00:00	c12be268-6433-4dd7-9e37-cc4f1fc322f1	5bc11b18-21dd-421f-b239-93db6cd7d439	Books
7915	46485af1-1f8c-45c3-96a5-62ed53b00d76	2026-01-17T11:31:38.518+00:00	83f485e4-5ae4-4537-a4a6-67e740d1e42f	a19c663b-4e47-4c05-95d0-daa7650034ec	Toys
7916	704f8b0b-81b1-44e1-96b8-d49c729d8f64	2026-01-17T08:28:45.025+00:00	1d54f258-7a3a-418b-a233-753dd3c52d0d	3ccfbf9c-62c7-4921-b76b-56ef45444901	Toys
7917	abb094fe-f764-479e-80bf-0ef2c4f95000	2026-01-17T08:41:37.857+00:00	584d0bfd-d751-4a53-9350-4e5a02a7615c	48a7cccb-a74b-4e38-b2d9-60d7b7867bf0	Books

7,917 rows | 38.91s runtime Refreshed 19 minutes ago

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[Shift+Enter] to run and move to next cell
[Ctrl+Shift+P] to open the command palette

30°C Sunny

Search

Cloud Icons

17:44 IN 17-01-2026

ecommercestoragee - Microsoft Azure Data Studio 03_aggregated_to_gold. - DataFrames +

adb-7405610061393645.5.azure.databricks.net/editor/notebooks/2824997697665736?o=7405610061393645

Microsoft Azure databricks

Search data, notebooks, recents, and more... CTRL + P

ecommerce-databricks

New

Workspace

Recents

Catalog

Jobs & Pipelines

Compute

Marketplace

SQL

SQL Editor

Queries

Dashboards

Genie

Alerts

Query History

SQL Warehouses

Data Engineering

Job Runs

Data Ingestion

AI/ML

Playground

Experiments

01_stream_orders_to_bronze.py 02_cleaned_values_silver 03_aggregated_to_gold. +

File Edit View Run Help Python Tabs: ON Last edit was 9 minutes ago

Interrupt ecommerce-cluster Schedule Share

Table +

	window_start	window_end	state	total_sales	total_items
1391	2026-01-17T11:12:00.000+00:00	2026-01-17T11:13:00.000+00:00	AZ	7098.5	16
1392	2026-01-17T11:18:00.000+00:00	2026-01-17T11:19:00.000+00:00	CA	11141.140000000000	13
1393	2026-01-17T11:39:00.000+00:00	2026-01-17T11:40:00.000+00:00	IL	33081.61	28
1394	2026-01-17T10:54:00.000+00:00	2026-01-17T10:55:00.000+00:00	IL	13201.61	25
1395	2026-01-17T11:54:00.000+00:00	2026-01-17T11:55:00.000+00:00	NY	26941.98	30
1396	2026-01-17T11:36:00.000+00:00	2026-01-17T11:37:00.000+00:00	NY	22081.67	18
1397	2026-01-17T11:00:00.000+00:00	2026-01-17T11:01:00.000+00:00	IL	19261.630000000000	25
1398	2026-01-17T11:42:00.000+00:00	2026-01-17T11:43:00.000+00:00	AZ	1085.48	2
1399	2026-01-17T11:03:00.000+00:00	2026-01-17T11:04:00.000+00:00	TX	35930.55	35
1400	2026-01-17T10:45:00.000+00:00	2026-01-17T10:46:00.000+00:00	TX	14103.67	14
1401	2026-01-17T11:14:00.000+00:00	2026-01-17T11:15:00.000+00:00	CA	48765.19	47
1402	2026-01-17T10:51:00.000+00:00	2026-01-17T10:52:00.000+00:00	IL	19729.79	23
1403	2026-01-17T10:44:00.000+00:00	2026-01-17T10:45:00.000+00:00	TX	34588.909999999999	37
1404	2026-01-17T10:52:00.000+00:00	2026-01-17T10:53:00.000+00:00	CA	12886.1	14
1405	2026-01-17T11:13:00.000+00:00	2026-01-17T11:14:00.000+00:00	IL	22310.189999999999	26

1,405 rows | 49.30s runtime Refreshed 8 minutes ago

[Shift+Enter] to run and move to next cell
[Ctrl+Shift+P] to open the command palette
[Esc H] to see all keyboard shortcuts

30°C Sunny

Search

17:48 IN 17-01-2026

A ecommercestorage - Microsoft Edge Compute - Databricks +

adb-7405610061393645.5.azure.databricks.net/compute/sql-warehouses?o=7405610061393645&page=1&page_size=20

Microsoft Azure Search data, notebooks, recents, and more... CTRL + P ecommerce-databricks ...

+ New

Compute

All-purpose compute Job compute **SQL warehouses** Vector Search Pools Policies Apps Lakebase Provisioned •

Filter SQL warehouses Only my SQL warehouses Created by Size Status Type Create SQL warehouse

Status	Name	Created by	Size	Active / Max	Type
	Serverless Starter Warehouse	Aniket Singh	Small	0 / 1	Serverless

1

SQL

SQL Editor Queries Dashboards Genie Alerts Query History SQL Warehouses

Data Engineering

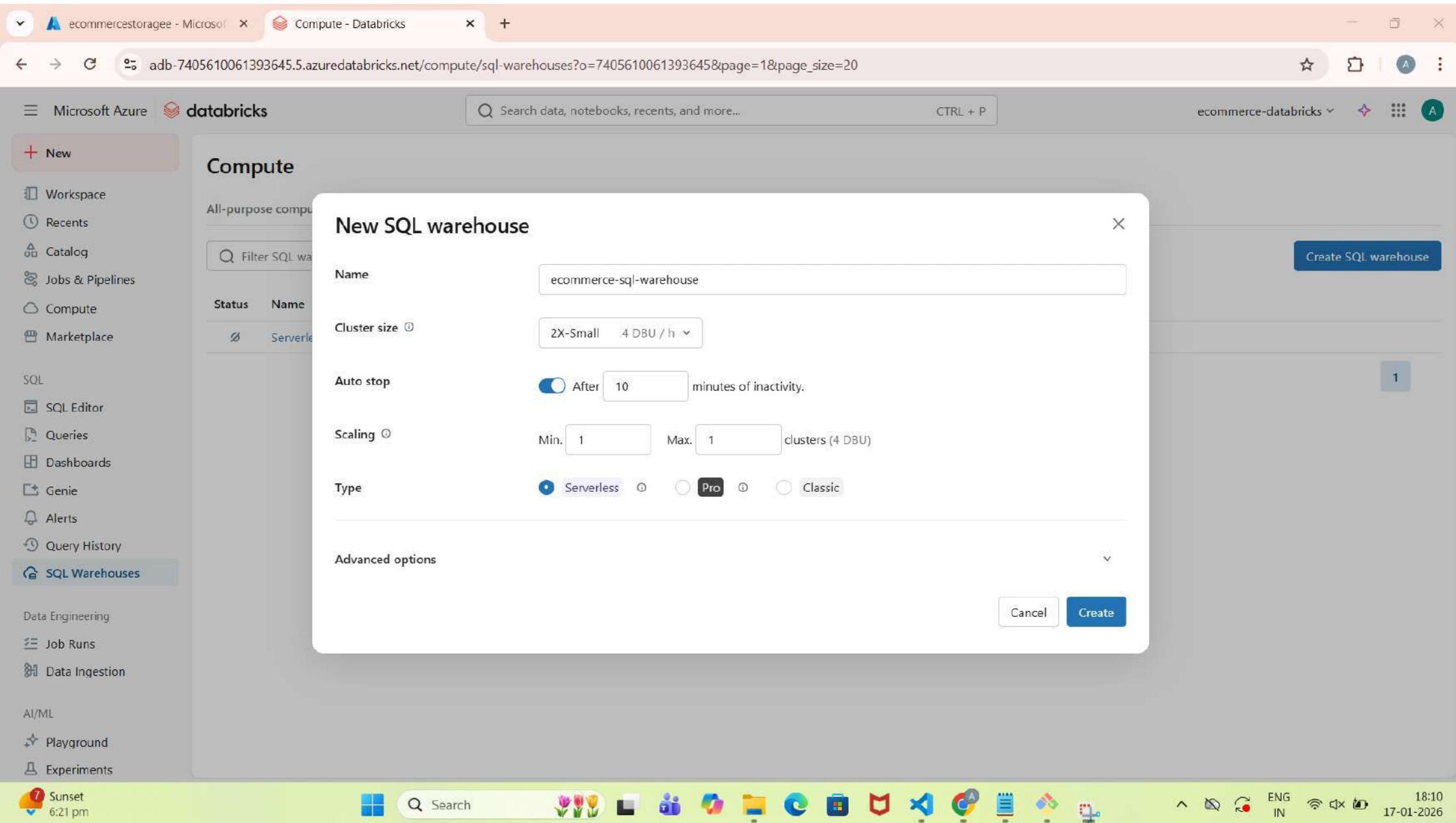
Job Runs Data Ingestion

AI/ML

Playground Experiments

7 27°C Sunny

Search ENG IN 18:09 17-01-2026



A ecommercestoragee - Microsoft 3 Compute - Databricks

adb-7405610061393645.5.azuredatabricks.net/compute/sql-warehouses?o=7405610061393645&page=1&page_size=20

Microsoft Azure databricks

+ New

Compute

All-purpose compute

Filter SQL wa

Status Name

Serverless

SQL

SQL Editor

Queries

Dashboards

Genie

Alerts

Query History

SQL Warehouses

Data Engineering

Job Runs

Data Ingestion

AI/ML

Playground

Experiments

Search

Search data, notebooks, recent, and more

CTRL + P

New SQL warehouse

Name: ecommerce-sql-warehouse

Cluster size: 2X-Small 4 DBU / h

Auto stop: After 10 minutes of inactivity.

Scaling: Min. 1 Max. 1 clusters (4 DBU)

Type: Serverless (selected), Pro, Classic

Advanced options

Tags: Key, Value

Unity Catalog: On

Channel: Current (selected), Preview

Create SQL warehouse

Cancel Create

7 Sunset 6:21 pm

Search

File Explorer

PowerShell

Teams

OneDrive

Edge

Bookmarks

VS Code

Google Sheets

Google Slides

Google Docs

File

18:10

ENG IN

17-01-2026

A ecommercestoragee - Microsoft 365 SQL Warehouse - Databricks +

adb-7405610061393645.5.azuredatabricks.net/sql/warehouses/4c54a23d1bc9f411?o=7405610061393645#permissions

Microsoft Azure databricks Search data, notebooks, recents, and more... CTRL + P

ecommerce-databricks New

SQL Warehouses > ecommerce-sql-war...

Overview Connection details Status Name Type Cluster size Auto stop Scaling Channel Created by

Do you want information about permission levels? [Learn more](#)

Type to add multiple users or groups

aniketsingh007cld@gmail.com Is Owner

Admins Can manage

Send feedback : Permissions Edit Stop

Workspace Recents Catalog Jobs & Pipelines Compute Marketplace SQL Editor Queries Dashboards Genie Alerts Query History SQL Warehouses Data Engineering Job Runs Data Ingestion AI/ML Playground Experiments

7 27°C Sunny

Search

18:14 17-01-2026

A ecommercestorage - Microsoft Edge SQL Warehouse - Databricks +

adb-7405610061393645.5.azure.databricks.net/sql/warehouses/4c54a23d1bc9f411?o=7405610061393645#permissions

Microsoft Azure databricks Search data, notebooks, recents, and more... CTRL + P ecommerce-databricks New

SQL Warehouses > **ecommerce-sql-warehouse** • Send feedback Permissions Edit Stop

Overview Connection details Monitoring

Status Running

Name ecommerce-sql-warehouse (ID: 4c54a23d1bc9f411)

Type Serverless

Cluster size 2X-Small

Auto stop After 10 minutes of inactivity

Scaling Cluster count: Active 1 Min 1 Max 1

Channel Current (v 2025.35)

Created by Aniket Singh

Workspace Recents Catalog Jobs & Pipelines Compute Marketplace

SQL Editor Queries Dashboards Genie Alerts Query History SQL Warehouses

Data Engineering Job Runs Data Ingestion

AI/ML Playground Experiments

7 27°C Sunny

Search

18:14 ENG IN 17-01-2026

ADB-7405610061393645.5.azure.databricks.net/editor/notebooks/2824997697665736?o=7405610061393645#command/877522956065866

Microsoft Azure  databricks

Search data, notebooks, recents, and more... CTRL + P

ecommerce-databricks

New

Workspace Catalog

File Edit View Run Help Python Tabs: ON Last edit was... Interrupt ecommerce-cluster Schedule Share

Recent items: 01_stream_orders_to_bronze.py, 02_cleaned_values_silver, 03_aggregated_to_gold.

For you All

Type to search...

My organization

ecommerce_databricks

default

No data

information_schema

system

Delta Shares Received

samples

1,405 rows | 49.30s runtime

Refreshed 1 hour ago

SQL

Queries

Dashboards

Genie

Alerts

Query History

SQL Warehouses

Data Engineering

Job Runs

Data Ingestion

AI/ML

Playground

Experiments

27°C Mostly clear

Search

Cloud storage icon

File icon

Group icon

Folder icon

Browser icon

Bookmark icon

VS Code icon

Google Sheets icon

Table icon

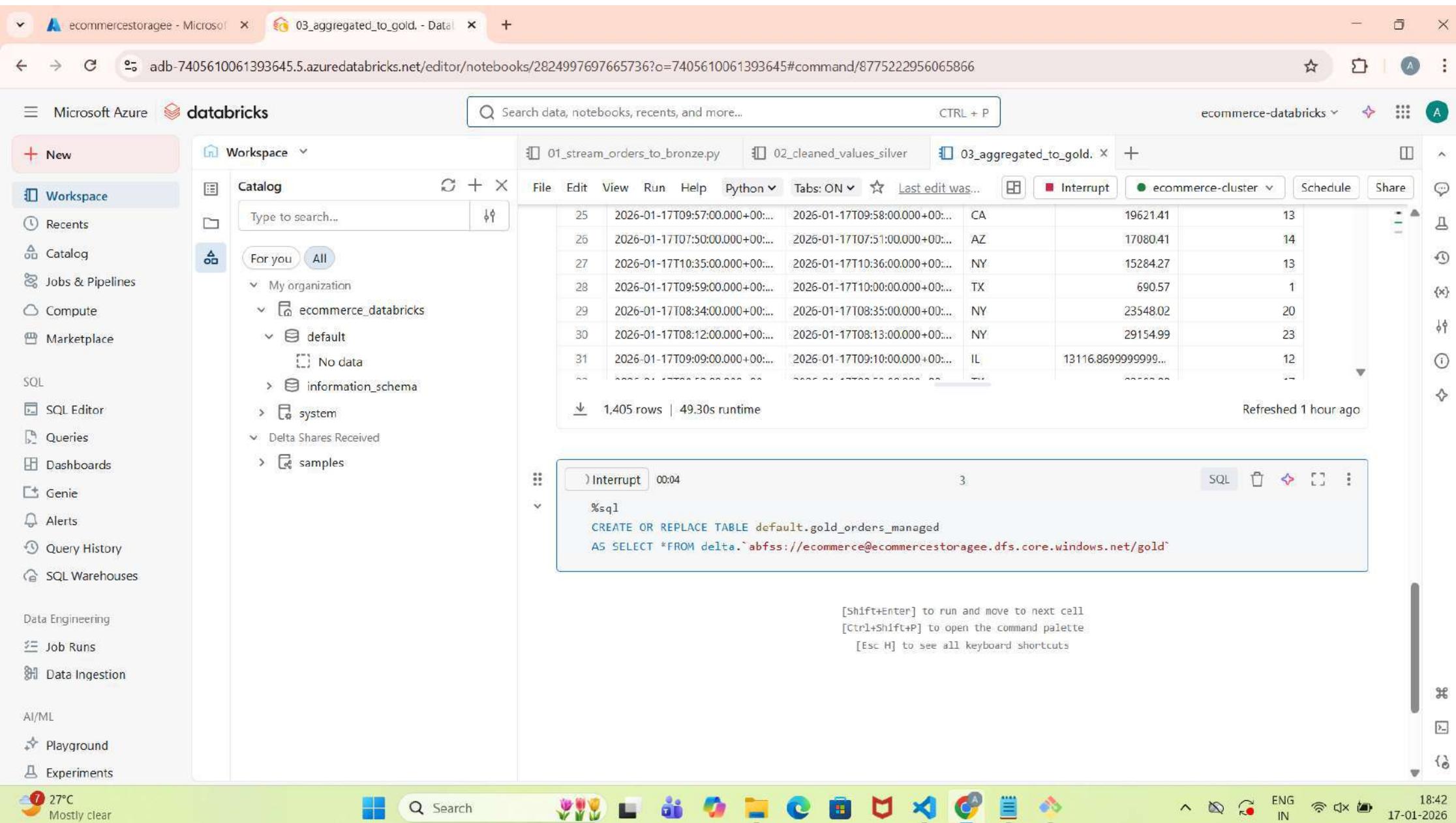
18:42 ENG IN 17-01-2026

	25	2026-01-17T09:57:00.000+00:00	2026-01-17T09:58:00.000+00:00	CA	19621.41	13
	26	2026-01-17T07:50:00.000+00:00	2026-01-17T07:51:00.000+00:00	AZ	17080.41	14
	27	2026-01-17T10:35:00.000+00:00	2026-01-17T10:36:00.000+00:00	NY	15284.27	13
	28	2026-01-17T09:59:00.000+00:00	2026-01-17T10:00:00.000+00:00	TX	69057	1
	29	2026-01-17T08:34:00.000+00:00	2026-01-17T08:35:00.000+00:00	NY	23548.02	20
	30	2026-01-17T08:12:00.000+00:00	2026-01-17T08:13:00.000+00:00	NY	29154.99	23
	31	2026-01-17T09:09:00.000+00:00	2026-01-17T09:10:00.000+00:00	IL	13116.8699999999...	12

%sql

```
CREATE OR REPLACE TABLE default.gold_orders_managed
AS SELECT * FROM delta.`abfss://ecommerce@ecommercestoragee.dfs.core.windows.net/gold`
```

[Shift+Enter] to run and move to next cell
[Ctrl+Shift+P] to open the command palette
[Esc H] to see all keyboard shortcuts



ADB ecommercestoragee - Microsoft Azure Data Studio 03_aggregated_to_gold. - DataFrames +

adb-7405610061393645.5.azure.databricks.net/editor/notebooks/2824997697665736?o=7405610061393645#command/877522956065866

Microsoft Azure **databricks** Search data, notebooks, recents, and more... CTRL + P ecommerce-databricks New Workspace Catalog File Edit View Run Help Python Tabs: ON Last edit was... Interrupt ecommerce-cluster Schedule Share Recents Catalog Jobs & Pipelines Compute Marketplace SQL SQL Editor Queries Dashboards Genie Alerts Query History SQL Warehouses Data Engineering Job Runs Data Ingestion AI/ML Playground Experiments 27°C Mostly clear 18:43 ENG IN 17-01-2026

Workspace Catalog 01_stream_orders_to_bronze.py 02_cleaned_values_silver 03_aggregated_to_gold. × +

File Edit View Run Help Python Tabs: ON Last edit was... Interrupt ecommerce-cluster Schedule Share Refreshed 1 hour ago

1,405 rows | 49.30s runtime

Just now (24s) SQL

```
%sql  
CREATE OR REPLACE TABLE default.gold_orders_managed  
AS SELECT * FROM delta.`abfss://ecommerce@ecommercestoragee.dfs.core.windows.net/gold`
```

(3) Spark Jobs

```
_sqldf: pyspark.sql.connect.DataFrame = [num_affected_rows: long, num_inserted_rows: long]
```

Table +

num_affected_rows	num_inserted_rows
-------------------	-------------------

No rows returned

0 rows | 24.49s runtime Refreshed now

This result is stored as _sqldf and can be used in other Python and SQL cells.

ADB ecommercestoragee - Microsoft Azure Data Studio 03_aggregated_to_gold. - Databricks

adb-7405610061393645.5.azuredatabricks.net/editor/notebooks/2824997697665736?o=7405610061393645#command/8775222956065866

Microsoft Azure **databricks** Search data, notebooks, recents, and more... CTRL + P ecommerce-databricks

+ New **Workspace** Catalog Type to search... File Edit View Run Help Python Tabs: ON Last edit was... ecommerce-cluster Schedule Share

Recent items: 01_stream_orders_to_bronze.py, 02_cleaned_values_silver, 03_aggregated_to_gold. (refreshed 1 hour ago)

For you All My organization ecommerce_databricks default gold_orders_managed window_start window_end state .00 total_sales 1² total_items information_schema system Delta Shares Received samples

1,405 rows | 49.30s runtime

1 minute ago (24s) SQL %sql CREATE OR REPLACE TABLE default.gold_orders_managed AS SELECT * FROM delta.`abfss://ecommerce@ecommercestoragee.dfs.core.windows.net/gold` (3) Spark Jobs _sqldf: pyspark.sql.connect.DataFrame = [num_affected_rows: long, num_inserted_rows: long]

No rows returned

0 rows | 24.49s runtime

This result is stored as _sqldf and can be used in other Python and SQL cells.

27°C Mostly clear Search

18:43 ENG IN 17-01-2026

A ecommercestoragee - Microsoft 365 gold_warehouse - Databricks +

adb-7405610061393645.5.azuredatabricks.net/editor/queries/2824997697665737?o=7405610061393645

Microsoft Azure databricks

Search data, notebooks, recents, and more... CTRL + P

ecommerce-databricks

New

Workspace Catalog

Run all (1000) ecommerce_databricks default New SQL editor: ON

01_stream_orders_to_bronze.py 02_cleaned_values_silver 03_aggregated_to_gold.

gold_warehouse

Workshop Recents Catalog Jobs & Pipelines Compute Marketplace

SQL Editor Queries Dashboards Genie Alerts Query History SQL Warehouses

Data Engineering Job Runs Data Ingestion

AI/ML Playground Experiments

25°C Clear

Search

1 | SELECT * FROM gold_orders_managed;

Add parameter

Output

19:45 ENG IN 17-01-2026

This screenshot shows the Microsoft Azure Databricks workspace interface. The top navigation bar includes tabs for 'ecommercestoragee - Microsoft' and 'gold_warehouse - Databricks'. The URL in the address bar is 'adb-7405610061393645.5.azuredatabricks.net/editor/queries/2824997697665737?o=7405610061393645'. The main workspace has a left sidebar with sections like 'New', 'Workspace', 'Catalog', 'Compute', 'Marketplace', 'SQL', 'Data Engineering', 'Job Runs', 'Data Ingestion', 'AI/ML', 'Playground', and 'Experiments'. The central area shows a query editor with a search bar at the top. Below it, there are three tabs: '01_stream_orders_to_bronze.py', '02_cleaned_values_silver', and '03_aggregated_to_gold.'. A dropdown menu shows 'Run all (1000)' and the current context 'ecommerce_databricks default New SQL editor: ON'. The main code area contains the following SQL query:

```
1 | SELECT * FROM gold_orders_managed;
```

Below the code, there are buttons for 'Add parameter' and 'Output'. The bottom of the screen shows a taskbar with various icons and system status indicators.

A ecommercestoragee - Microsoft 365 gold_warehouse - Databricks +

adb-7405610061393645.5.azuredatabricks.net/editor/queries/2824997697665737?o=7405610061393645

Microsoft Azure databricks

Search data, notebooks, recents, and more... CTRL + P

ecommerce-databricks

New Workspace Catalog Run all (1000) ecommerce_databricks default New SQL editor: ON

gold_warehouse

Attach to an existing compute resource

SQL Warehouse Lakebase Postgres

ecommerce-sql-warehouse

Summary

Size 2X-Small
Type Serverless

Cancel Start, attach and run

25°C Clear

Search

19:46 17-01-2026

25°C Clear

19:46 17-01-2026

ecommercestoragee - Microsoft 365 gold_warehouse - Databricks +

adb-7405610061393645.5.azuredatabricks.net/editor/queries/2824997697665737?o=7405610061393645

Microsoft Azure databricks

Search data, notebooks, recents, and more... CTRL + P

ecommerce-databricks

New

Workspace Catalog

Recent Catalog Jobs & Pipelines Compute Marketplace

SQL Editor Queries Dashboards Genie Alerts Query History SQL Warehouses

Data Engineering Job Runs Data Ingestion

AI/ML Playground Experiments

25°C Clear

01_stream_orders_to_bronze.py 02_cleaned_values_silver 03_aggregated_to_gold.

Run all (1000) Just now (8s) ecommerce_databricks.default New SQL editor: ON

gold_warehouse

SELECT * FROM gold_orders_managed;

Add parameter

Table

	window_start	window_end	state	1.2 total_sales	1.3 total_items
991	2026-01-17T10:12:00.000+00:00	2026-01-17T10:13:00.000+00:00	IL	27107.87	26
992	2026-01-17T08:59:00.000-00:00	2026-01-17T09:00:00.000+00:00	NY	22455.39	22
993	2026-01-17T08:48:00.000+00:00	2026-01-17T08:49:00.000+00:00	IL	12979.91	12
994	2026-01-17T08:14:00.000+00:00	2026-01-17T08:15:00.000+00:00	IL	10013.4	14
995	2026-01-17T09:15:00.000+00:00	2026-01-17T09:16:00.000+00:00	AZ	33496.3200000001	27
996	2026-01-17T09:16:00.000+00:00	2026-01-17T09:17:00.000+00:00	AZ	10042.84	6
997	2026-01-17T10:13:00.000+00:00	2026-01-17T10:14:00.000+00:00	AZ	12543.2699999999...	21
998	2026-01-17T10:23:00.000+00:00	2026-01-17T10:24:00.000+00:00	NY	16763.91	14
999	2026-01-17T10:10:00.000+00:00	2026-01-17T10:11:00.000+00:00	TX	24862.4799999999...	24
1000	2026-01-17T10:16:00.000+00:00	2026-01-17T10:17:00.000+00:00	IL	19451.6099999999...	20

1,000 rows | 8.00s runtime

Refreshed now

See performance (1)

Optimize

Search

Windows Icons

19:47 17-01-2026 ENG IN

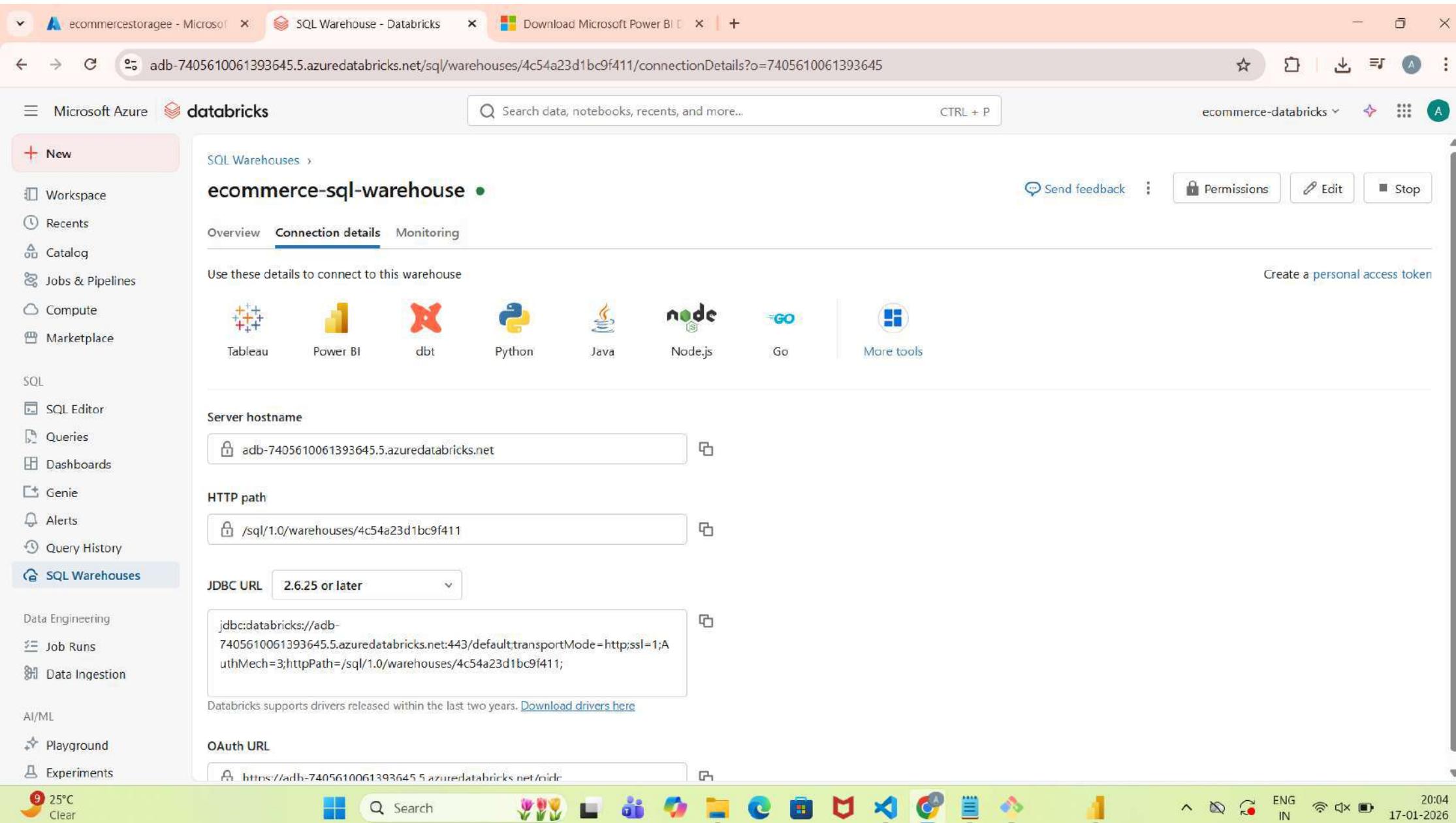
A screenshot of a Windows desktop environment showing a Microsoft Power BI Desktop (x64) Setup window overlaid on a Visual Studio Code (VS Code) interface.

The Power BI setup window is titled "Installing Microsoft Power BI Desktop (x64)" and displays the message: "Please wait while the Setup Wizard installs Microsoft Power BI Desktop (x64)". The status bar shows "Status: Copying new files".

The VS Code interface shows the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Search Bar:** Q realtime-commerce-insights-azure
- Explorer:** REALTIME-ECOMMERCE-INSIGHTS-AZURE folder containing:
 - databricks_notebooks
 - powerbi
 - QueryNotebook folder containing CODE.txt (selected), generate_orders.py, and README.md
- Code Editor:** Query Notebook CODE.txt with the following content:

```
1 df_bronze = spark.read.format("delta").load(bronze_path)
2 display(df_bronze)
3
4
5 df_silver = spark.read.format("delta").load(silver_path)
6 display(df_silver)
7
8 df_gold = spark.read.format("delta").load(gold_path)
9 df_gold.display()
10
11
12 %sql
13 CREATE OR REPLACE VIEW gold AS SELECT * FROM df_gold
14
15
16
17
18
19 SELECT * FROM gold
```
- Terminal:** Shows JSON data from a query, likely a Databricks notebook output.
- Bottom Status Bar:** 25°C Clear, AWS profile: default, Ln 16, Col 1, Spaces: 4, UTF-8, CRLF, Plain Text, ENG IN, 19:55, 17-01-2026.



Untitled - Power BI Desktop

Sign in Share

File Home Insert Modeling View Optimize Help

Cut Copy Paste Format painter Clipboard

Get data Excel OneLake SQL Enter Dataverse Refresh New Text More New visual New Quick Sensitivity Publish Prep data for AI Copilot

Data

Clipboard

Azure Databricks

Server Hostname adb-7405610061393645.5.azuredatabricks.net

HTTP Path /sql/1.0/warehouses/4c54a23d1bc9f411

Advanced Options (optional)

Default catalog (optional)

Database (optional) Example: abc

Query tags (optional) Example: tag1:value1,tag2:value2

Automatic Proxy Discovery (optional)

Implementation (optional)

Native query (Requires: Default catalog) (optional) Example: select * from db.schemaname.tablename

OK Cancel

Visualizations

Build visual

Filters

Values

Add data fields here

Drill through

Cross-report Off

Keep all filters On

Add drill-through fields here

Import data from

Page 1 +

9 25°C Clear

Search ENG IN 20:05 17-01-2026 82%

Untitled - Power BI Desktop

Sign in Share

File Home Insert Modeling View Optimize Help

Cut Copy Paste Format painter Clipboard

Get data Excel OneLake SQL Enter data Refresh Data

New Text More New visual New Quick Sensitivity Publish Prep data for AI Copilot

Search

Azure Databricks

Example: tag1:value1,tag2:value2

Automatic Proxy Discovery (optional)

Implementation (optional)

Native query (Requires: Default catalog) (optional)
Example: select * from db.schemaname.tablename

Data Connectivity mode
 Import
 DirectQuery

OK Cancel

Visualizations Filters

Build visual

Filters

Data

Import data from

Page 1 +

25°C Clear

Search

ENG IN 82% 20:06 17-01-2026

Untitled - Power BI Desktop

File Home Insert Modeling View Optimize Help

Cut Copy Paste Format painter Clipboard

Get data workbook catalog OneLake SQL Server Enter data Data Transform Refresh Data New visual Text box More

Recent sources Data Queries Insert New visual calculation New measure Quick Sensitivity Publish Prep data for AI Copilot

Search

Databricks

{"host": "adb-7405610061393645.5.azuredatabricks.n..."}
You are currently signed in.
Sign in as different user

Back Connect Cancel

Visualizations Build visual

Filters

Data

Import data from

Page 1 +

25°C Clear

Search

20:08 17-01-2026

Untitled - Power BI Desktop

File Home Insert Modeling View Optimize Help

Clipboard

Get data Excel OneLake workbook catalog S

Navigator

Display Options

- adb-7405610061393645.5.azuredatabricks.net:...
- ecommerce_databricks
- samples
- system

No items selected for preview

Load Transform Data Cancel

Visualizations

Filters

Data

Add data fields here

Drill through

Cross-report Off

Keep all filters On

Add drill-through fields here

Page 1 +

9 25°C Clear

Search

20:09 17-01-2026

Untitled - Power BI Desktop

File Home Insert Modeling View Optimize Help

Clipboard

Get data Excel OneLake workbook catalog S

Navigator

Display Options

- adb-7405610061393645.5.azuredbricks.net...
- ecommerce_databricks [1]
 - default [1]
 - gold_orders_managed
 - samples
 - system

gold_orders_managed

window_start	window_end	state	total_sales	total_item
17-01-2026 11:53:00	17-01-2026 11:54:00	NY	29500.36	
17-01-2026 11:16:00	17-01-2026 11:17:00	TX	9203.74	
17-01-2026 11:53:00	17-01-2026 11:54:00	CA	8121.9	
17-01-2026 11:06:00	17-01-2026 11:07:00	CA	3307.23	
17-01-2026 11:06:00	17-01-2026 11:07:00	TX	8365.59	
17-01-2026 11:35:00	17-01-2026 11:36:00	CA	24743.91	
17-01-2026 10:59:00	17-01-2026 11:00:00	IL	8937.84	
17-01-2026 11:34:00	17-01-2026 11:35:00	TX	11485.73	
17-01-2026 10:41:00	17-01-2026 10:42:00	IL	29902.84	
17-01-2026 11:42:00	17-01-2026 11:43:00	NY	13092.36	
17-01-2026 11:50:00	17-01-2026 11:51:00	AZ	16907.55	
17-01-2026 11:01:00	17-01-2026 11:02:00	NY	18243.7	
17-01-2026 11:20:00	17-01-2026 11:21:00	AZ	38220.48	
17-01-2026 10:54:00	17-01-2026 10:55:00	CA	5160.11	
17-01-2026 11:15:00	17-01-2026 11:16:00	AZ	20898.18	
17-01-2026 11:48:00	17-01-2026 11:49:00	IL	18740.38	
17-01-2026 11:09:00	17-01-2026 11:10:00	NY	9872.58	
17-01-2026 11:30:00	17-01-2026 11:31:00	NY	18450.5	
17-01-2026 10:55:00	17-01-2026 10:56:00	TK	14112.94	
17-01-2026 10:43:00	17-01-2026 10:44:00	AZ	12542.68	
17-01-2026 11:27:00	17-01-2026 11:28:00	IL	29764.52	
17-01-2026 10:53:00	17-01-2026 10:54:00	AZ	13783.86	
17-01-2026 11:30:00	17-01-2026 11:31:00	AZ	8873.48	

Load Transform Data Cancel

Visualizations

Filters

Data

Values

Add data fields here

Drill through

Cross-report Off

Keep all filters On

Add drill-through fields here

Page 1

25°C Clear

Search

20:11 17-01-2026

Untitled - Power BI Desktop

File Home Insert Modeling View Optimize Help

Cut Copy Paste Format painter Get data from workbook catalog Data OneLake Server Enter data Refresh Recent sources Transform Queries New visual Text box More visuals Insert New visual calculation New measure Quick measure Sensitivity Publish Prep data for AI Copilot

There are pending changes in your queries that haven't been applied.

Apply changes Discard changes

Create connections

Once loaded, you can

Import data from Excel Import data from SQL Server Paste data into a blank table Use sample data

gold_orders_managed Syncing schema...

Cancel

Get data from another source →

Visualizations

Build visual Filters

Values Add data fields here

Drill through Cross-report Off

Keep all filters On Add drill-through fields here

Page 1 +

9 25°C Clear Search

20:11 17-01-2026

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Sign in

Share

File Home Insert Modeling View Optimize Help

Cut Copy Format painter

Paste Get data workbook catalog SQL Server Data

Transform Refresh data New visual Text box More visuals

Queries New calculation New measure Quick measure

Insert Calculations Sensitivity Publish Prep data for Copilot AI

Clipboard

Build visual

Filters

Visualizations Data

Search

gold_orders_managed

- state
- \sum total_items
- \sum total_sales
- window_end
- window_start

Values

Drill through

Cross-report Off On

Keep all filters On Off

Page 1 +

Storage Mode: DirectQuery (click to change)

9 25°C Clear Search

ENG IN 82% 20:13 17-01-2026

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File Home Insert Modeling View Optimize Help Format Data / Drill

New page ▾ New visual ▾ More ▾ Key influencers Decomposition tree AI visuals Paginated report Power Apps Power Automate Text box Buttons Shapes Image Elements Add a sparkline Sparklines

30.33M Sum of total_sales 17.59K Average of total_sales 30K Sum of total_items 17.67 Average of total_items

Sum of total_sales by window_start

Filters

Visualizations

Data

Format visual

gold_orders_managed

- state
- \sum total_items
- \sum total_sales
- window_end
- window_start

Filters on this visual

- Sum of total_sales is (All)
- window_start is (All)

Add data fields here

Filters on this page

Add data fields here

Filters on all pages

Add data fields here

Horizontal

Color

Transparency

Line style

Page 1

Storage Mode: DirectQuery (click to change)

9+ Top Stories Suspense builds... Search

21:47 17-01-2026

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File Home Insert Modeling View Optimize Help

New page New visual More visual Visuals Key influencers Decomposition tree AI visuals Paginated report Power Apps Power Automate Power Platform Text box Buttons Shapes Image Elements Add a sparkline Sparklines

30.33M Sum of total_sales 17.59K Average of total_sales 30K Sum of total_items 17.67 Average of total_items

Sum of total_sales by window_start

Filters

Visualizations

Data

gold_orders_managed

- state
- \sum total_items
- \sum total_sales
- window_end
- window_start

Values

Drill through

Cross-report (Off)

Keep all filters (Off)

Add drill-through fields here

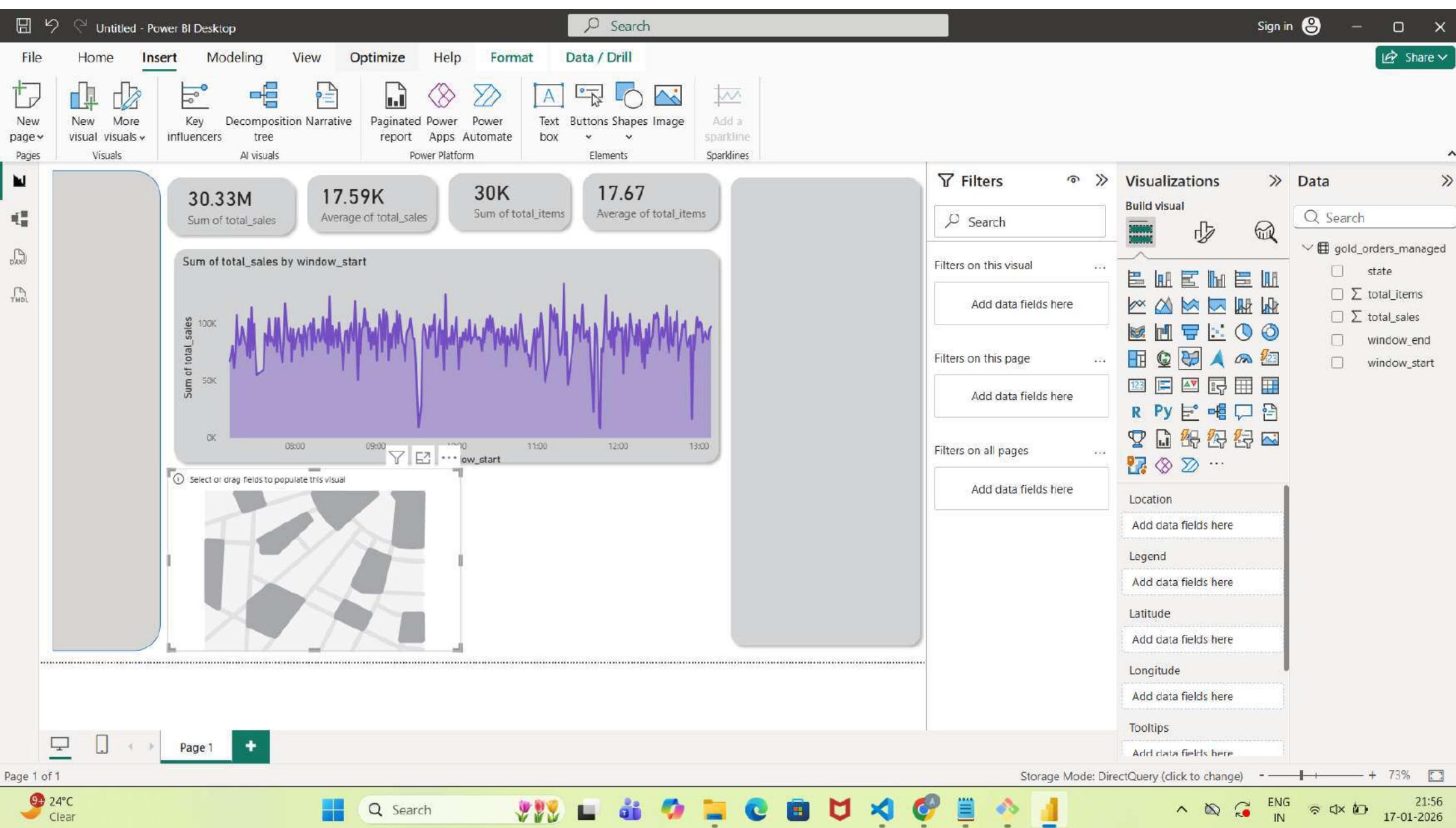
Page 1

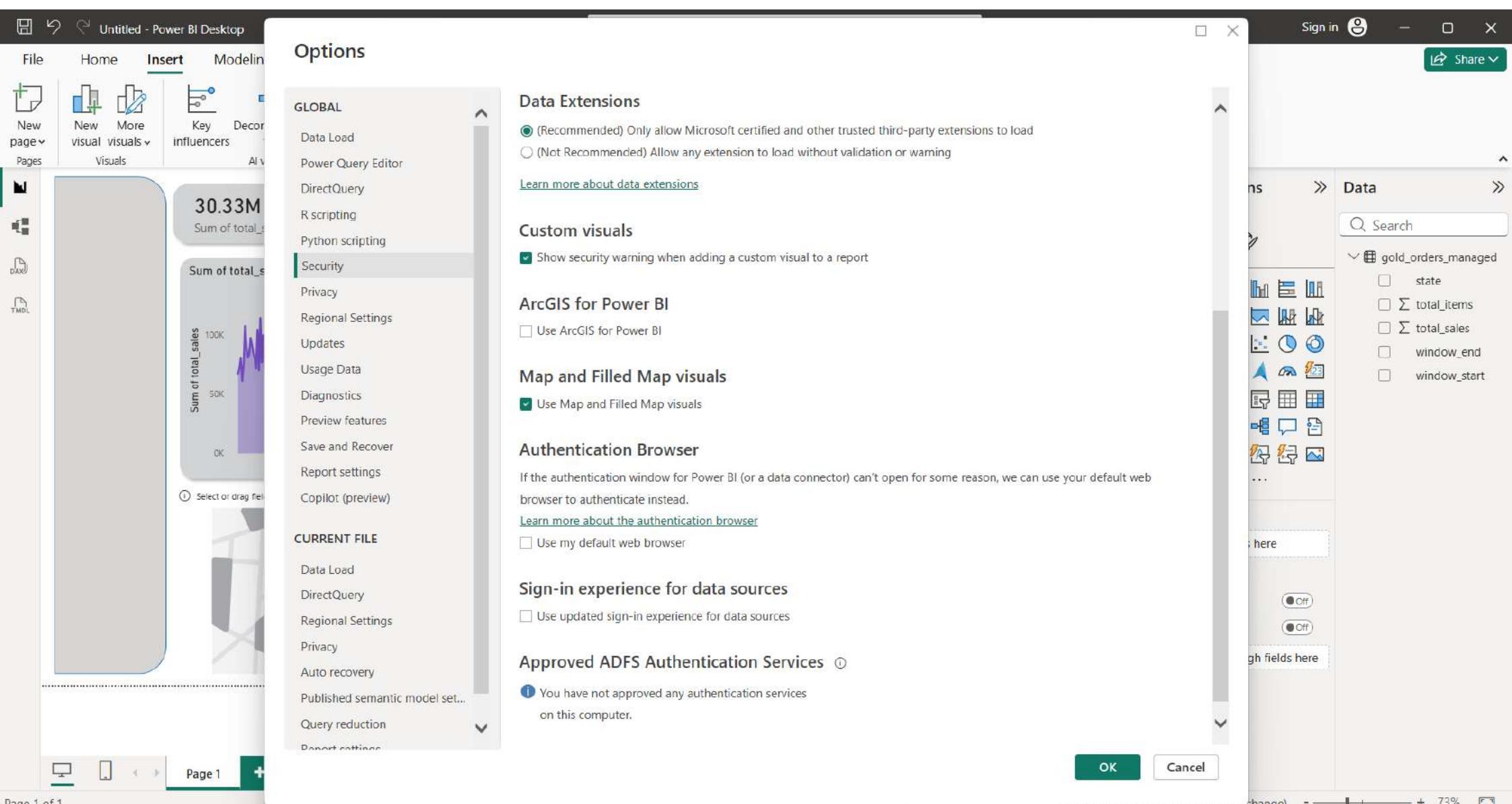
Storage Mode: DirectQuery (click to change)

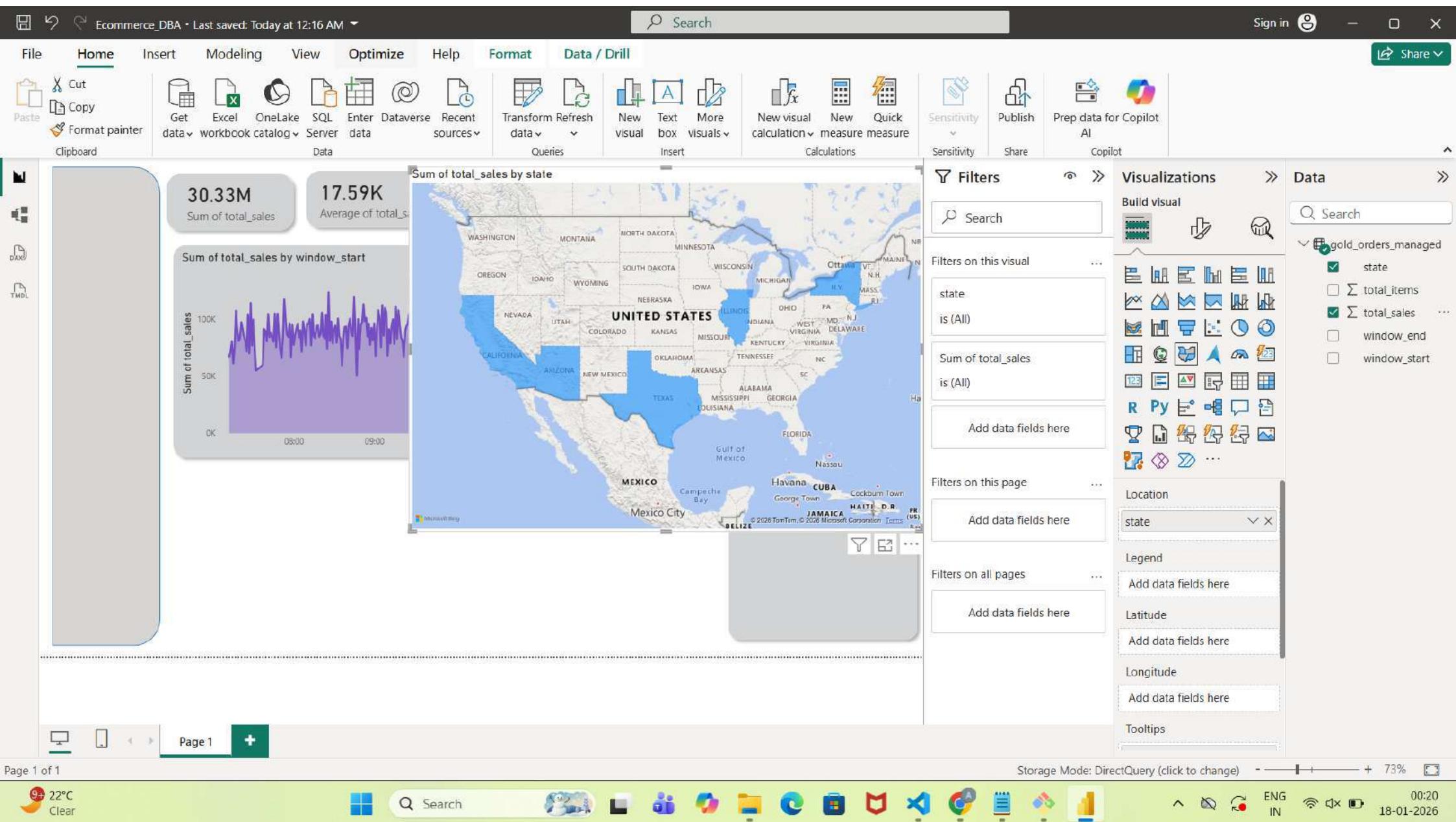
9+ 24°C Clear

Search

21:51 17-01-2026







Ecommerce_DBA - Last saved: Today at 12:16 AM

Search

File Home Insert Modeling View Optimize Help Format Data / Drill

Cut Copy Format painter Clipboard

Get data Get Excel OneLake SQL Server Enter data Dataverse Recent sources Transform Refresh data New visual Text box More

New visual calculation New measure Quick measure

Sensitivity Share Publish Prep data for Copilot AI Copilot

Sum of total_sales

17.59K Average of total_sales

30K Sum of total_items

17.67 Average of total_items

Sum of total_sales by window_start

100K
50K
0K

08:00 09:00 10:00 11:00 12:00 13:00

window_start

Sum of total_sales by state

UNITED STATES

Filters

Visualizations

Data

Search

Filters on this visual

state
is (All)

Sum of total_sales
is (All)

Add data fields here

Filters on this page

Add data fields here

Filters on all pages

Add data fields here

Location

state

Legend

Add data fields here

Latitude

Add data fields here

Longitude

Add data fields here

Tooltips

gold_orders_managed

✓ state
Σ total_items
✓ Σ total_sales
window_end
window_start

Page 1

Storage Mode: DirectQuery (click to change)

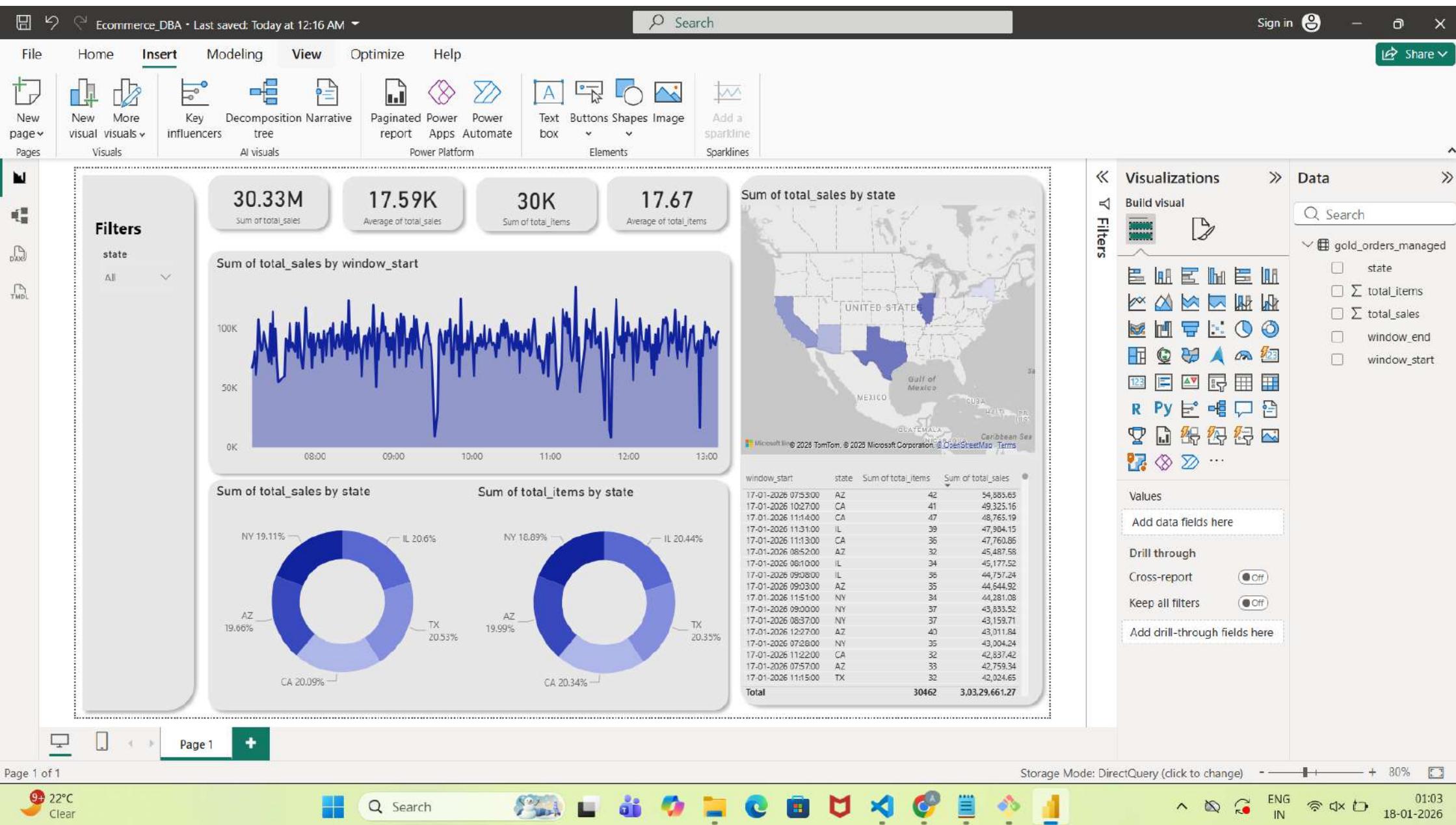
9+ 22°C Clear

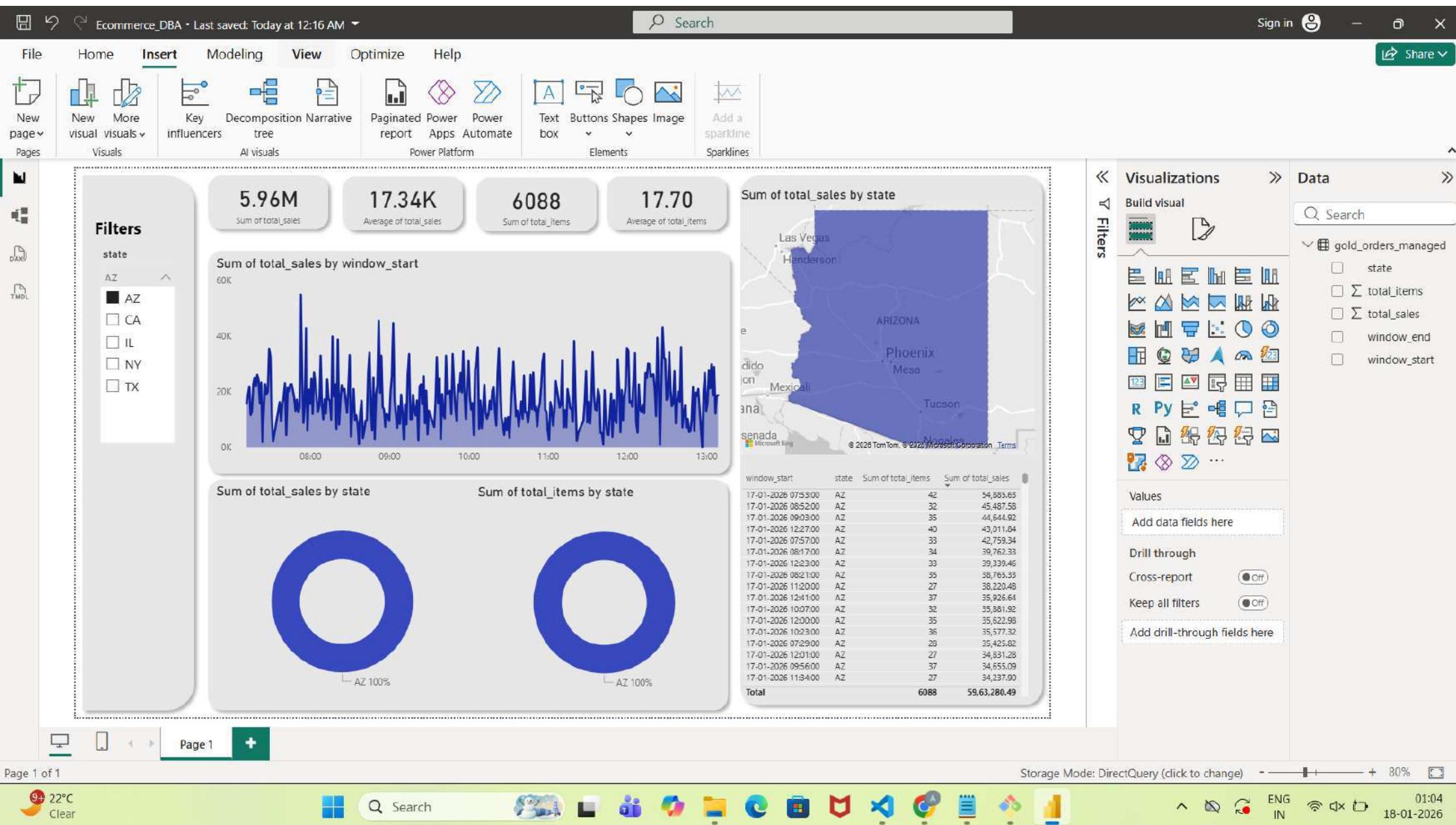
Search

00:30

ENG IN

18-01-2026





Ecommerce_DBA - Last saved: Today at 12:16 AM

Search

Sign in Share

File Home Insert Modeling View Optimize Help

New page New visual More Key influencers Decomposition tree AI visuals Paginated report Power Apps Power Automate Text box Buttons Shapes Image Add a sparkline Sparklines

Visualizations

Data

Sum of total_sales by state

Sum of total_sales by window_start

Sum of total_items by state

Sum of total_items by state

window_start state Sum of total_items Sum of total_sales

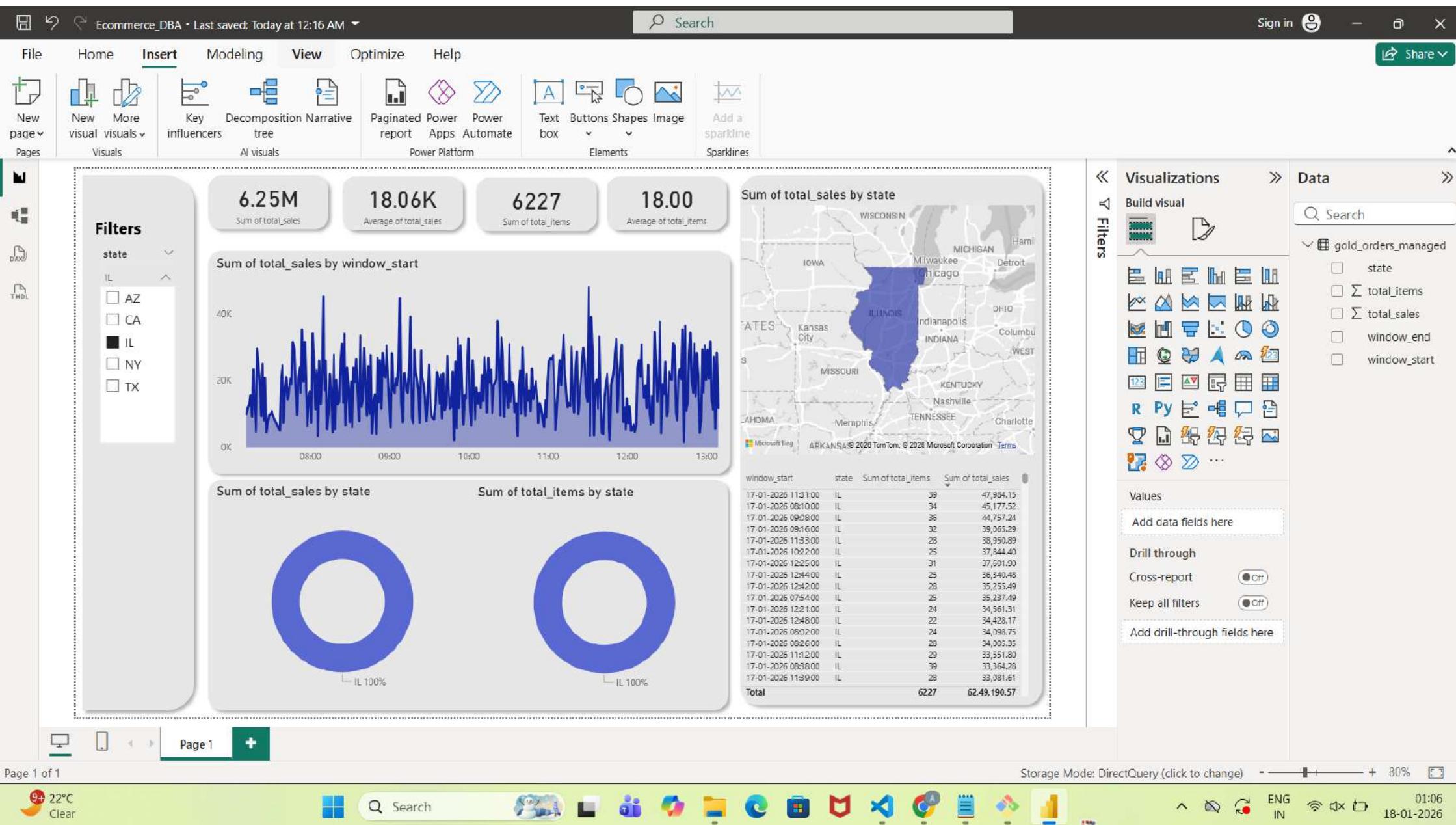
window_start	state	Sum of total_items	Sum of total_sales
17-01-2026 102700	CA	41	49,325.16
17-01-2026 111400	CA	47	48,765.19
17-01-2026 111300	CA	36	47,760.86
17-01-2026 112200	CA	32	42,937.42
17-01-2026 130700	CA	44	41,918.53
17-01-2026 115900	CA	40	39,782.22
17-01-2026 120200	CA	35	37,642.89
17-01-2026 112000	CA	24	37,159.86
17-01-2026 081900	CA	32	36,061.51
17-01-2026 124300	CA	34	35,904.89
17-01-2026 073000	CA	24	35,853.97
17-01-2026 094000	CA	30	35,120.08
17-01-2026 115700	CA	33	34,000.85
17-01-2026 101400	CA	27	33,516.12
17-01-2026 091600	CA	24	32,879.37
17-01-2026 111920	CA	33	32,293.98
17-01-2026 112800	CA	24	32,152.84
Total		6196	60,94,387.00

Page 1 +

Storage Mode: DirectQuery (click to change)

9+ 22°C Clear Search

ENG IN 01:05 18-01-2026



Ecommerce_DBA - Last saved: Today at 12:16 AM

Search

Sign in Share

File Home Insert Modeling View Optimize Help

New page New visual More Key influencers Decomposition tree AI visuals Paginated report Power Apps Automate Power Platform Text Buttons Shapes Image box Add a sparkline Elements Sparklines

Filters

state
NY
AZ CA IL NY TX

Sum of total_sales by window_start

Sum of total_sales by state

Sum of total_items by state

Sum of total_sales by state

Sum of total_sales by state

window_start	state	Sum of total_items	Sum of total_sales
17-01-2026 11:51:00	NY	34	44,281.08
17-01-2026 09:00:00	NY	37	43,333.52
17-01-2026 08:57:00	NY	37	43,159.71
17-01-2026 07:28:00	NY	35	43,004.24
17-01-2026 07:41:00	NY	38	41,092.23
17-01-2026 09:44:00	NY	37	39,530.28
17-01-2026 08:08:00	NY	36	38,181.42
17-01-2026 08:51:00	NY	36	37,493.58
17-01-2026 09:09:00	NY	31	37,298.03
17-01-2026 10:48:00	NY	29	36,954.48
17-01-2026 10:1:00	NY	28	36,267.95
17-01-2026 11:16:00	NY	27	35,412.85
17-01-2026 12:06:00	NY	32	35,317.94
17-01-2026 11:20:00	NY	20	32,886.50
17-01-2026 09:25:00	NY	29	31,876.72
17-01-2026 12:56:00	NY	36	31,430.97
17-01-2026 09:13:00	NY	22	31,330.35
Total		5753	57,96,900.64

Visualizations

Build visual

Filters

gold_orders_managed

- state
- \sum total_items
- \sum total_sales
- window_end
- window_start

Values

Add data fields here

Drill through

Cross-report (Off)

Keep all filters (Off)

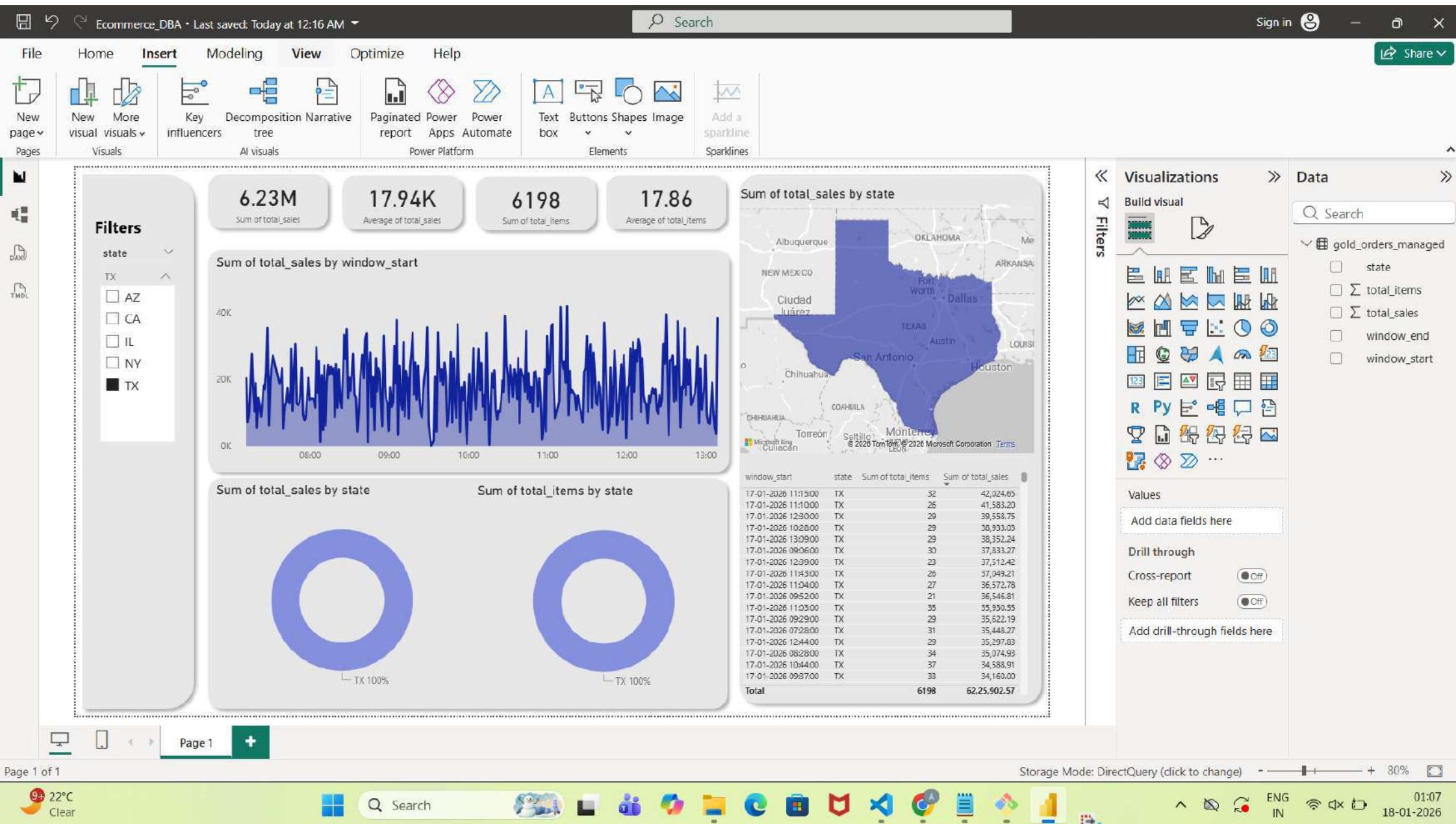
Add drill-through fields here

Storage Mode: DirectQuery (click to change)

Page 1 +

9+ 22°C Clear Search

ENG IN 01:06 18-01-2026



Ecommerce_DBA - Last saved: Today at 1:10 AM

Search

Sign in

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Get Excel OneLake SQL Server Data

MINGW64:/c/Users/ANIKET/realtime-commerce-insights-azure/powerbi

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~

```
$ cd realtime-commerce-insights-azure/databricks_notebooks
```

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-commerce-insights-azure/databricks_notebooks (master)

```
$ git add 01_stream_orders_to_bronze.py
```

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-commerce-insights-azure/databricks_notebooks (master)

```
$ git commit -m "Inserted raw data into BLOB"
```

[master 44925bc] Inserted raw data into BLOB
1 file changed, 69 insertions(+)
create mode 100644 databricks_notebooks/01_stream_orders_to_bronze.py

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-commerce-insights-azure/databricks_notebooks (master)

```
$ git add 02_cleaned_values_silver.py
```

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-commerce-insights-azure/databricks_notebooks (master)

```
$ git commit -m "Inserted cleaned values to silver layer"
```

[master dd9c36d] Inserted cleaned values to silver layer
1 file changed, 44 insertions(+)
create mode 100644 databricks_notebooks/02_cleaned_values_silver.py

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-commerce-insights-azure/databricks_notebooks (master)

```
$ git add 03_aggregated_to_gold.py
```

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-commerce-insights-azure/databricks_notebooks (master)

```
$ git commit -m "Aggregated data added to gold layer"
```

[master 1be2c0e] Aggregated data added to gold layer
1 file changed, 50 insertions(+)
create mode 100644 databricks_notebooks/03_aggregated_to_gold.py

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-commerce-insights-azure/databricks_notebooks (master)

```
$ cd ..
```

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-commerce-insights-azure (master)

```
$ cd powerbi
```

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-commerce-insights-azure/powerbi (master)

```
$ git add Ecommerce_DBA.pbix
```

fatal: pathspec 'Ecommerce_DBA.pbix' did not match any files

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-commerce-insights-azure/powerbi (master)

```
$ git add Ecommerce_DBA.pbix
```

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-commerce-insights-azure/powerbi (master)

30.33M

Sum of total_sales

Sum of total_sales by window

100K
50K
0K

08:00

Sum of total_sales by state

NY 19.11%
AZ 19.66%
CA 20.09%

Data

Search

gold_orders_managed

Filters

state

All

AZ
CA
IL
NY
TX

Page 1

Storage Mode: DirectQuery (click to change)

9+ 22°C Clear

Search

18-01-2026 01:14

Ecommerce_DBA - Last saved: Today at 1:10 AM

Search

File Home Insert Modeling View Optimize Help

Cut Copy Format painter Paste Get data Excel OneLake SQL Server Enter Dataverse Recent sources Transform Refresh data New visual Text box More

New visual calculation New measure Quick Sensitivity Publish Prep data for Copilot AI Copilot

Filters

state All

Sum of total_sales by window_start

Sum of total_sales by state

Sum of total_items by state

Sum of total_sales by state

Sum of total_sales by state

window_start	state	Sum of total_items	Sum of total_sales
17-01-2026 07:53:00	AZ	42	\$4,885.63
17-01-2026 10:27:00	CA	41	\$49,325.16
17-01-2026 11:14:00	CA	47	\$48,765.19
17-01-2026 11:31:00	IL	39	\$47,984.15
17-01-2026 11:13:00	CA	36	\$47,760.86
17-01-2026 08:52:00	AZ	32	\$45,487.58
17-01-2026 08:10:00	IL	34	\$45,177.52
17-01-2026 09:06:00	IL	36	\$44,757.24
17-01-2026 09:03:00	AZ	35	\$44,544.92
17-01-2026 11:51:00	NY	34	\$44,281.08
17-01-2026 09:00:00	NY	37	\$43,933.52
17-01-2026 08:37:00	NY	37	\$43,159.71
17-01-2026 12:27:00	AZ	40	\$43,011.84
17-01-2026 07:28:00	NY	35	\$43,004.24
17-01-2026 11:22:00	CA	32	\$42,837.42
17-01-2026 07:57:00	AZ	33	\$42,759.34
17-01-2026 11:15:00	TX	32	\$42,024.65
Total		30462	\$3,03,29,661.27

Visualizations

Build visual

Filters

Data

Search

gold_orders_managed

Page 1 +

Storage Mode: DirectQuery (click to change)

9+ 22°C Clear Search

ENG IN 01:14 18-01-2026

Ecommerce_DBA - Last saved: Today at 1:10 AM

File Home Insert Modeling View

Cut Copy Format painter

Paste

Clipboard

Filters

state All

30.33M Sum of total_sales

Sum of total_sales by window

100K
50K
0K

08:00

Sum of total_sales by state

NY 19.11%
AZ 19.66%
CA 20.09%

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure/databricks_notebooks

\$ cd realtime-e-commerce-insights-azure/databricks_notebooks

\$ git add 01_stream_orders_to_bronze.py

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure/databricks_notebooks (master)

\$ git commit -m "Inserted raw data into BLOB"

[master 44925bc] Inserted raw data into BLOB

1 file changed, 69 insertions(+)

create mode 100644 databricks_notebooks/01_stream_orders_to_bronze.py

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure/databricks_notebooks (master)

\$ git add 02_cleaned_values_silver.py

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure/databricks_notebooks (master)

\$ git commit -m "Inserted cleaned values to silver layer"

[master dd9c36d] Inserted cleaned values to silver layer

1 file changed, 44 insertions(+)

create mode 100644 databricks_notebooks/02_cleaned_values_silver.py

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure/databricks_notebooks (master)

\$ git add 03_aggregated_to_gold.py

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure/databricks_notebooks (master)

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1 file changed, 50 insertions(+)

create mode 100644 databricks_notebooks/03_aggregated_to_gold.py

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure/databricks_notebooks

\$ cd ..

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure (master)

\$ cd powerbi

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure/powerbi (master)

\$ git add Ecommerce_DBA.pbix

fatal: pathspec 'Ecommerce_DBA.pbix' did not match any files

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure/powerbi (master)

\$ git add Ecommerce_DBA.pbix

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure/powerbi (master)

\$ git commit -m "Created the sales dashboard in powerbi"

[master 1e3ff83] Created the sales dashboard in powerbi

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 powerbi/Ecommerce_DBA.pbix

ANIKET@LAPTOP-DG67TDO6 MINGW64 ~/realtime-e-commerce-insights-azure/powerbi (master)

\$ |

Search

Data

gold_orders_managed

Page 1

9+ 22°C Clear

Search

Storage Mode: DirectQuery (click to change)

ENG IN

01:15 18-01-2026