



Semantic Link Labs: A Link to the Future

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ATLANTA BI USER GROUP 2025

SEMANTIC LINK LABS

— A LINK TO THE FUTURE —



MICROSOFT
NOTEBOOK



REPORTS THAT
BREAK DUE TO
STRUCTURAL CHANGES



USABILITY
PITFALLS THAT
MAKE REPORTS
“TECHNICALLY FINE”
BUT FUNCTIONALLY
BROKEN FOR
END USERS



GOVERNANCE
REPORT

MODELS THAT
PERFORM POORLY
BECAUSE BEST
PRACTICES WERE
SKIPPED

Jason Romans

Cloud Data & Integration Developer

The DAX Shepherd



X @sql_jar

in jason-r-sql-jar

<https://thedaxshepherd.com/>



📍 Nashville, TN, USA

🔧 Began Career as a SQL Server DBA

➡️ Transitioned to Microsoft BI Stack

📦 Data Engineering to Data Modeling

✍️ Infrequent Blogger

🧭 Fan of Dimensional Models & Doctor Who

Shoulders of Giants

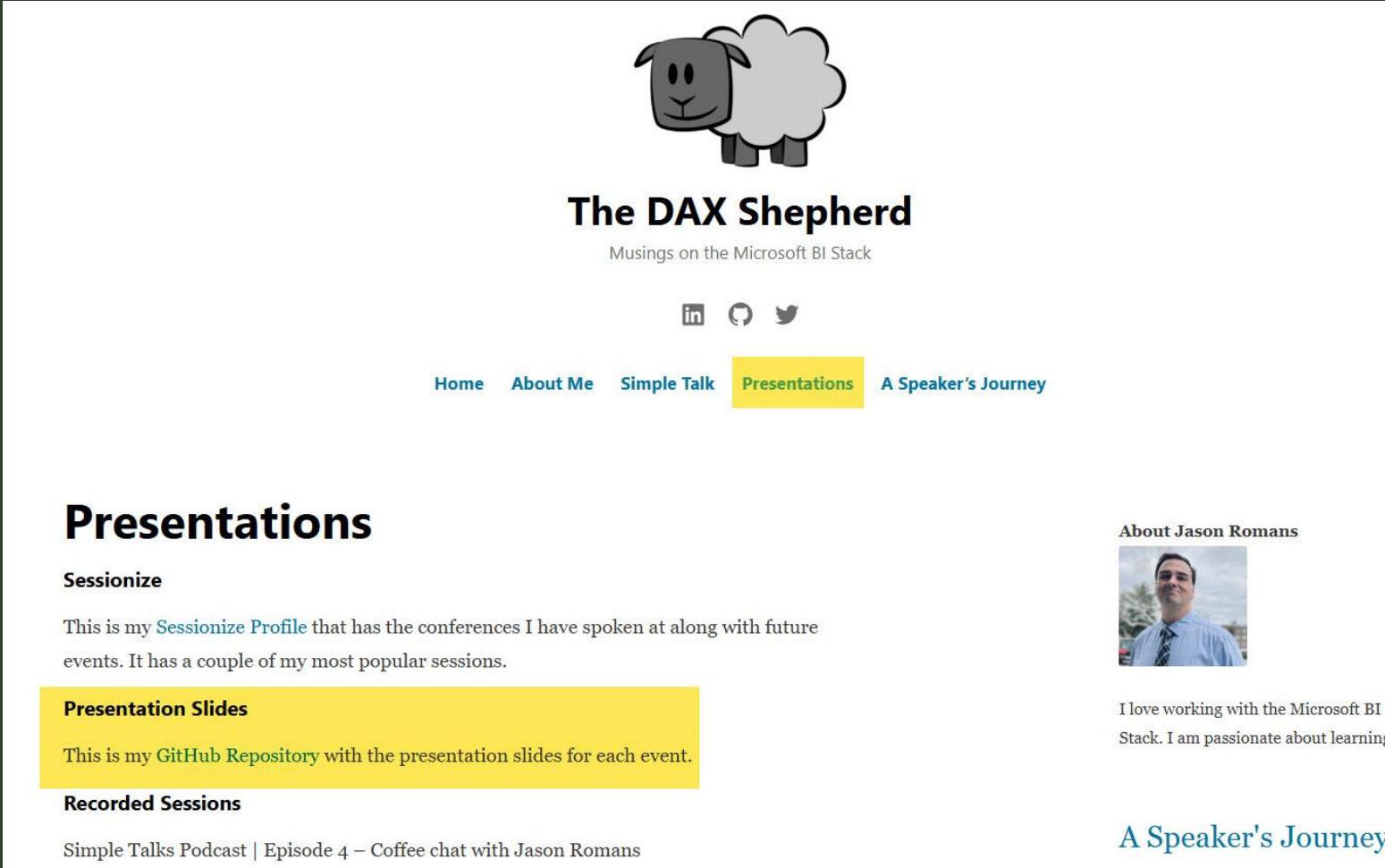


[This Photo by Unknown Author is licensed under CC BY-ND](#)



Slides

www.thedaxshepherd.com



The screenshot shows the homepage of www.thedaxshepherd.com. The page features a large sheep logo at the top center. Below it is the title "The DAX Shepherd" and the subtitle "Musings on the Microsoft BI Stack". A navigation bar below includes links for Home, About Me, Simple Talk, Presentations (which is highlighted in yellow), and A Speaker's Journey. Social media icons for LinkedIn, GitHub, and Twitter are also present. The main content area on the left is titled "Presentations" and includes sections for "Sessionize", "Presentation Slides", and "Recorded Sessions". A yellow box highlights the "Presentation Slides" section, which links to a GitHub repository. The right side of the page features a bio for "About Jason Romans" with a photo of him and a quote about his passion for learning the Microsoft BI Stack.

Presentations

Sessionize

This is my [Sessionize Profile](#) that has the conferences I have spoken at along with future events. It has a couple of my most popular sessions.

Presentation Slides

This is my [GitHub Repository](#) with the presentation slides for each event.

Recorded Sessions

Simple Talks Podcast | Episode 4 – Coffee chat with Jason Romans

About Jason Romans



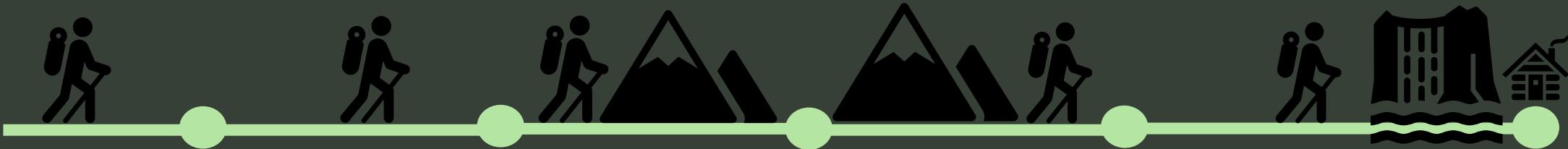
I love working with the Microsoft BI Stack. I am passionate about learning.

[A Speaker's Journey](#)

Why go on this journey?

- ADMINISTRATION
- BEST PRACTICES
- DETECT ISSUES
- USE EXISTING SEMANTIC MODELS
- “HAVE YOU TRIED SEMPY?”

Our Journey



- 1. Intro**
- 2. Notebooks**
- 3. Semantic Link**
- 4. Semantic Link Labs**
- 5. Conclusion**

Our Journey



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Microsoft Fabric Architecture

- Need a Fabric Capacity
- Uses what has been built in Power BI
- Data is stored in OneLake
- Choice of Compute engines

Leveraging Fabric Notebooks

- Benefit from knowledge of working with Jupyter Notebooks
 - Python
 - Pandas

Our Journey



1. Intro
2. Notebooks
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Type of Notebooks

LANGUAGE

- Python
- Scala
- Spark SQL
- R
- T-SQL

COMPUTE

- Spark
- Python (Single Node Virtual Machine)
- T-SQL Analytics

Compute & Language

 PySpark (Python)

Spark

✓ PySpark (Python)

Spark (Scala)

Spark SQL

SparkR (R)

Python

Python

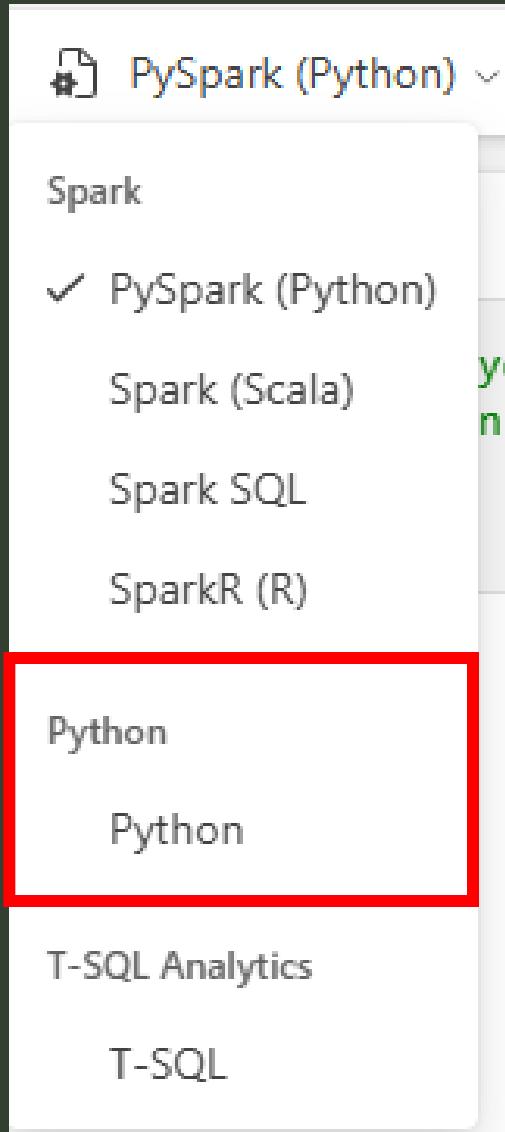
T-SQL Analytics

T-SQL

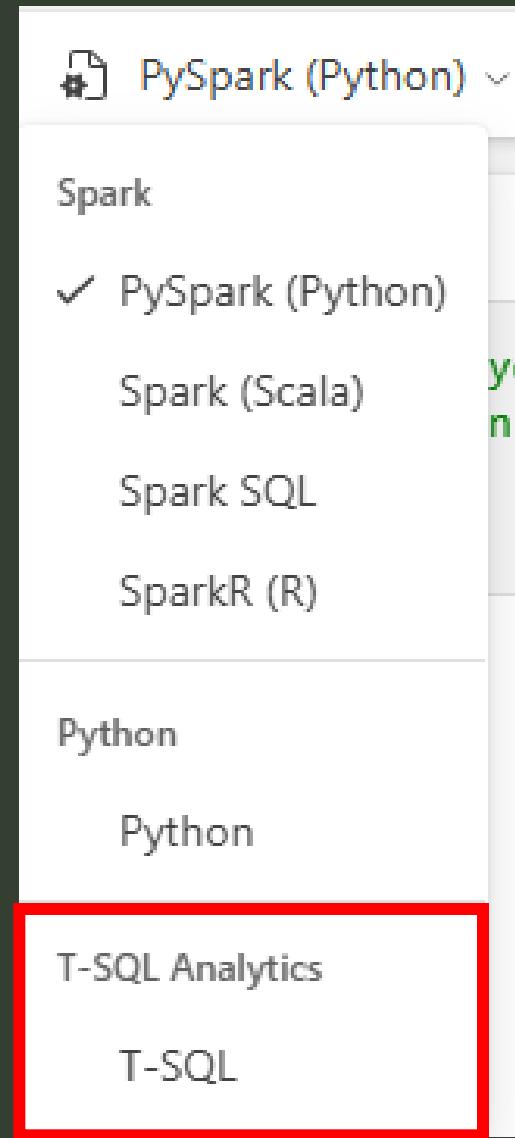
Spark (Python, Scala, SQL, R)



Python (Python)



T-SQL Analytics (T-SQL)



Choosing PySpark (Cluster) or Python Compute (Single Node)

Scenario	Recommended Notebook
Includes pre-installed DuckDB and Polars libraries	Python Notebooks
Small to medium data (fits in memory)	Python Notebooks (or PySpark on single-node Spark cluster)
Rapid exploration & prototyping	Python Notebooks (or PySpark on single-node Spark cluster)
Large datasets (10GB+) exceeding memory	PySpark Notebooks
Complex data workflows or ETL pipelines	PySpark Notebooks
High-concurrency or parallel execution	PySpark Notebooks
Needs Spark-native APIs (MLlib, SQL, Streaming)	PySpark Notebooks

<https://learn.microsoft.com/en-us/fabric/data-engineering/fabric-notebook-selection-guide>

Type of Compute for Notebooks

- Spark Based
 - Cluster
- Single Node Python
 - 2 vCores, 16G RAM (starter)
- T-SQL Analytics
 - Warehouse

Python Notebook - Change VM Size

Note: Longer startup times

```
%>%configure  
{  
  "vCores": 16  
}
```

- Memory is proportional to vCores
 - 2 is 2vCores with 16G
 - 4 is 4vCores with 32G
 - 8 is 8Vcores with 64G
 - 16 is 16vCores with 128G
 - 32 is 32vCores with 256G
 - 64 is 64vCores with 512G
 - (32 and 64) not available in trial

Python Notebook

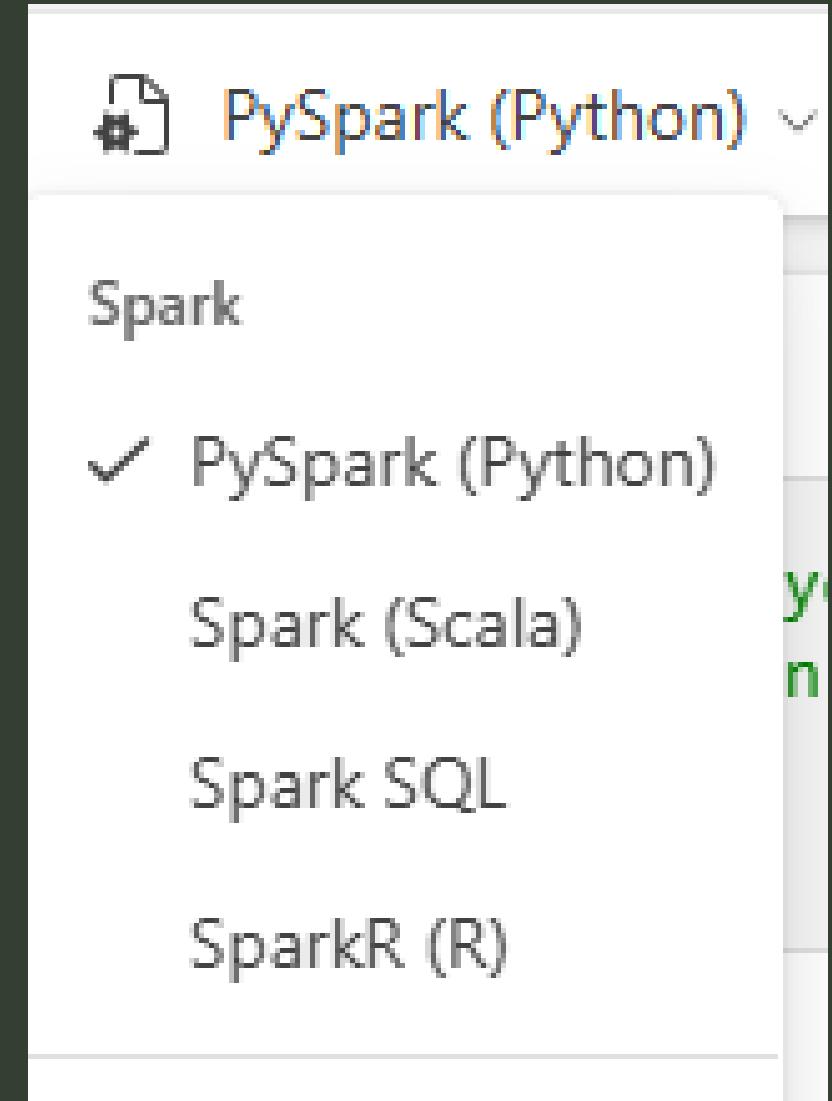
- Has libraries installed for dealing with “small-big” data
 - Less than 10 Gigabytes
 - Fits in memory
- Example Libraries installed
 - Polars
 - DuckDB

Languages for Spark

Different choices of languages

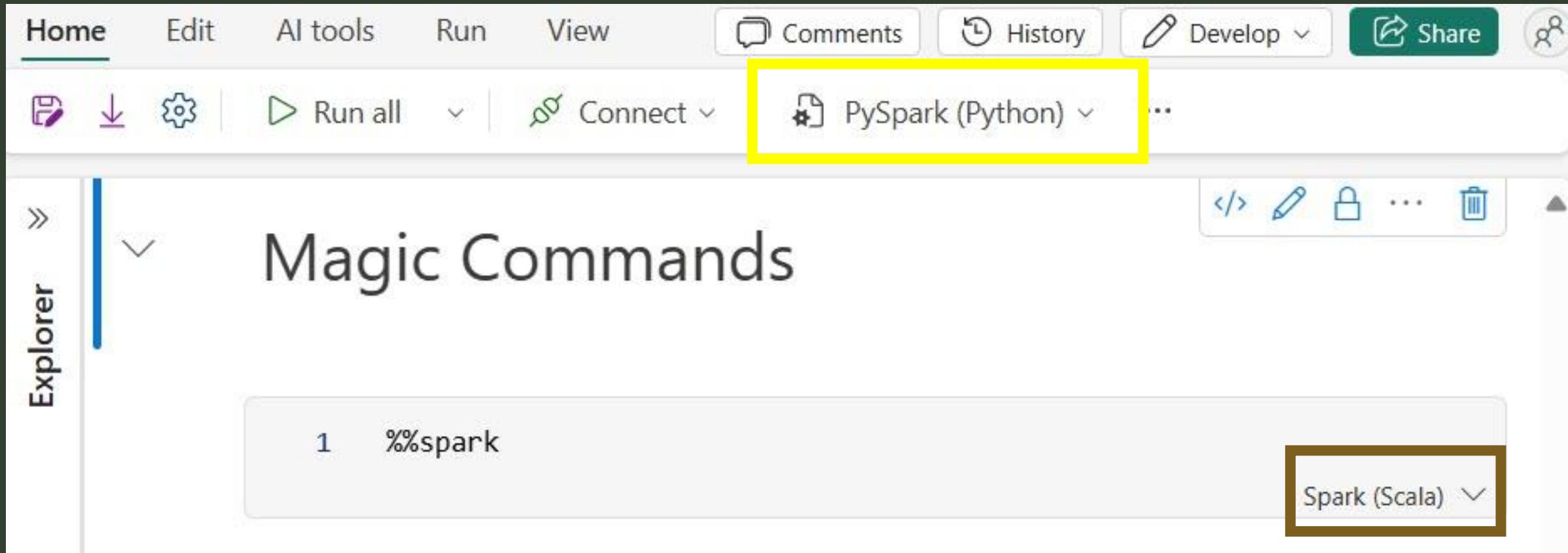
Spark was built with Scala

- PySpark (Python)
- Spark (Scala)
- Spark SQL
- SparkR (R)



Magic Commands – set language by cell

Magic command	Language	Description
%%pyspark	Python	Execute a Python query against Apache Spark Context.
%%spark	Scala	Execute a Scala query against Apache Spark Context.
%%sql	SparkSQL	Execute a SparkSQL query against Apache Spark Context.
%%html	Html	Execute n HTML query against Apache Spark Context.
%%sparkr	R	Execute a R query against Apache Spark Context.



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Missing Link

Semantic link is a feature that allows you to establish a connection between semantic models and Synapse Data Science in Microsoft Fabric.

-- Reference: <https://learn.microsoft.com/en-us/fabric/data-science/semantic-link-overview>

All the Things

Semantic link is a feature that allows you to establish a connection between semantic models and Synapse Data Science in Microsoft Fabric.

semantic models

Models, Reports, Lakehouse, Workspaces and more

Synapse Data Science

Fabric Notebook – Apache Spark with Python and more

A Tale of Two Links

Both are Available Only in Microsoft Fabric

- Semantic Link
 - Base
 - Driver or API
 - Included in default runtime for the current version

A Tale of Two Links

- Semantic Link Labs
 - “Expansion Pack” -- Kurt Buhler
 - Uses Semantic Link
 - `import sempy.fabric as fabric`
 - Open source - GitHub Repository
 - Under Active Development

Semantic Link Labs

Microsoft Fabric

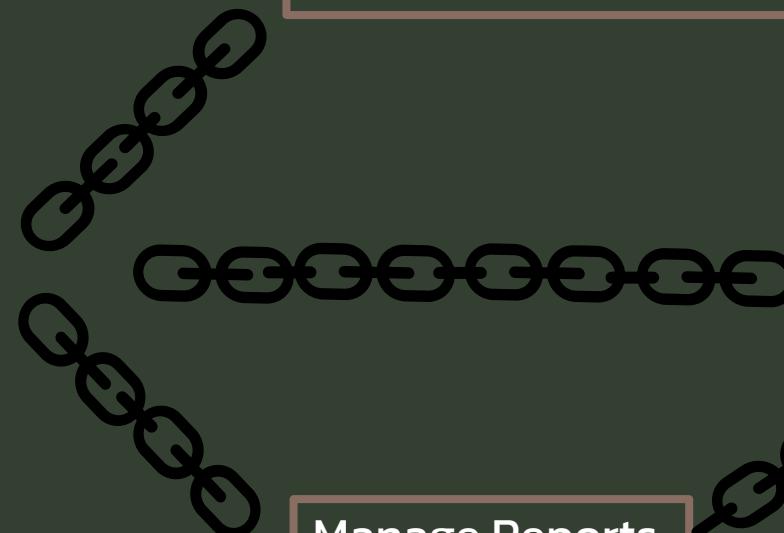


Semantic Link

- List Tables
- List Workspaces
- List Models
- List Reports

Semantic Link Labs

Migrate to Direct Lake



Manage Reports

Best Practice Analyzer

View Broken Reports

Rebind Reports

Installing

- Semantic Link
 - Spark 3.4 in default runtime
 - Update to newest version
 - %pip install -U semantic-link
 - Spark 3.3 or below – need to install
 - %pip install -U semantic-link

What Version of Spark

Workspace settings

General License info Azure connections System storage Git integration OneLake Workspace identity Network security

Power BI Delegated Settings OneLake settings

Data Engineering/Science Spark settings

Data Factory

Spark settings

Configure and manage settings for Spark workloads and the default environment for the workspace.

Pool **Environment** High concurrency Automatic log

Set default environment Off

The default environment will provide Spark properties, libraries, and developer settings for notebooks and Spark job definitions in this workspace when users don't select a different environment. [Learn more about Set default environment](#)

Runtime

Runtime Version

Runtime version defines which version of Spark your Spark pool will use. [Learn more about Runtime Version](#)

1.2 (Spark 3.4, Delta 2.4)

Spark Version Command

spark.version

```
1 spark.version
```

✓ <1 sec - Command executed in 260 ms by Jason Romans on 2:00:03 PM, 10/08/24

```
'3.4.3.5.3.20240904.5'
```

What Version of Semantic Link

- %pip show semantic-link
- or %pip list | grep semantic-link

```
1  %pip show semantic-link
[23]  ✓ 4 sec - Command executed in 3 sec 588 ms by Jason Romans on 11:49:10 PM, 10/19/24          PySpark (Python) ▾
...
Name: semantic-link
Version: 0.8.1
Summary: Semantic link for Microsoft Fabric
Home-page: https://learn.microsoft.com/en-us/fabric/data-science/semantic-link-overview
Author: Microsoft
Author-email: semanticdatascience@service.microsoft.com
License: proprietary and confidential
Location: /nfs4/pyenv-dd0ba783-2069-4fdc-8c80-bc03c74db705/lib/python3.11/site-packages
Requires: semantic-link-functions-geopandas, semantic-link-functions-holidays, semantic-link-functions-meteostat, semantic-link-functions-phonenumbers, semantic-link-functions-validators, semantic-link-sempy
Required-by:
Note: you may need to restart the kernel to use updated packages.
```

Import the Module

```
# Give it a friendly name – think Alias  
import sempy.fabric as fabric
```

Done in a Notebook

Code - Python

Install the latest .whl package

Check [here](#) to see the latest version.

```
1 %pip install semantic-link-labs  
- Session ready in 8 sec 603 ms. Command executed in 26 sec 202 ms by Jason Romans on 10:29:04 AM, 10/23/24
```

Install Wheel from File

```
1 %pip install /lakehouse/default/Files/semantic_link_labs-0.8.3-py3-none-any.whl  
- Command executed in 22 sec 745 ms by Jason Romans on 10:07:06 AM, 10/23/24
```

Show Semantic Link and Labs installed

```
1 %pip show semantic-link-sempy  
2 print('\n')  
3 %pip show semantic-link-labs  
✓ - Command executed in 6 sec 382 ms by Jason Romans on 10:30:20 AM, 10/23/24
```

Name: semantic-link-sempy
Version: 0.8.1
Summary: Semantic link for Microsoft Fabric
Home-page: <https://learn.microsoft.com/en-us/fabric/data-science/semantic-link-overview>
Author: Microsoft

Text Descriptions - Markdown

Uses Pandas Ecosystem (DataFrame)

Knowledge of working with
Pandas DataFrame helpful

DataFrame – data table



List Semantic Models

```
import sempy.fabric as fabric
```

```
fabric.list_datasets()
```

Dataset = Semantic Model

	Dataset Name	Dataset ID	Created Timestamp	Last Update
0	Contoso10K	47c34560-ef4d-46c6-825e-20cb9f11ba9d	2023-05-04 14:36:12	NaT
1	FabSLL_Lakehouse	e6d18d3a-b407-4fb3-813a-418b76388b11	2021-02-12 23:00:58	NaT
2	DataflowsStagingLakehouse	7c76f16d-2364-4c33-89bb-6960ac29cb5d	2021-02-12 23:00:58	NaT
3	DataflowsStagingWarehouse	625cb1b9-de7e-425f-90b3-727ac87268db	2021-02-12 23:00:58	NaT
4	Contoso10K_DL	261101fb-fc2d-4511-be34-1def1b4530fe	2019-09-17 05:50:29	NaT
5	Contoso10K_DLL1	40b52877-7e62-43cd-9a38-7c09b62f9048	2019-09-17 05:50:29	NaT
6	Contoso10K_ABC	cc93c0f1-e112-4adc-a009-3fb3a7a12f3b	2019-09-17 05:50:29	NaT
7	Contoso10K_SLL	e45a6ce5-5ea5-4b87-ad88-136dc4cab27	2019-09-17 05:50:29	NaT
8	Contoso10K_SL1	421040eb-ba74-4304-bb92-708c1667eb61	2019-09-17 05:50:29	NaT
9	Contoso10K_SL2	b84b790d-04a2-406d-ba17-2191186ebafa	2019-09-17 05:50:29	NaT
10	Contoso10K_SL9	5ca86b73-bef1-43d6-af09-5c12e358d391	2019-09-17 05:50:29	NaT

List Tables

```
tables=fabric.list_tables(workspace="SQLMAB", dataset = "SQLMab")  
display(tables)
```

	Name	Description	Hidden	Data Category	Type
0	Customer		False		Table
1	Sales		False		Table
2	Date		False		Table
3	Store		False		Table
4	Product		False		Table

List Workspaces

```
1 fabric.list_workspaces()
```

✓ - Command executed in 806 ms by Jason Romans on 5:25:32 PM, 10/08/24

PySpark (Python) ▾

	Id	Is Read Only	Is On Dedicated Capacity	Capacity Id	Default Dataset Storage Format	Type	Name
0	bfab8dff-bdfe-4943-9996-7dc97a4e4d38	False	False	NaN	NaN	Workspace	JAXSQL2023
1	41e69008-f6c3-42c0-8c0a-739f1a7a9a0a	False	True	3b9ac229-bcbb-4aa4-8543-72b6db25e330	Small	Workspace	ONSQSL2023
2	10c0ad3f-7a0b-4c0e-8b7d-f4a6170c5dde	False	True	3b9ac229-bcbb-4aa4-8543-72b6db25e330	Small	Workspace	SOFLSQL2023
3	ee7a8d30-f109-4848-9db3-be711a0f24d4	False	False	NaN	NaN	AdminInsights	Admin monitoring
4	10c2bd0a-5d3d-4e77-883cf16af027fcf5	False	True	3b9ac229-bcbb-4aa4-8543-72b6db25e330	Small	Workspace	COLSQLSAT2023
5	365a3880-83f7-4014-bad3-a006c34e2bb1	False	True	3b9ac229-bcbb-4aa4-8543-72b6db25e330	Small	Workspace	BRSQSLSAT2023
6	e6e71dc2-2a8e-482a-8bc9-ff5c16ed0311	False	True	3b9ac229-bcbb-4aa4-8543-72b6db25e330	Small	Workspace	DENSQSLSAT2023

List Workspaces on Dedicated Capacity

```
1 ws = fabric.list_workspaces()
2 dedicated = ws[ws["Is On Dedicated Capacity"] == True]
3 display(dedicated)
```

✓ - Command executed in 790 ms by Jason Romans on 5:37:07 PM, 10/08/24

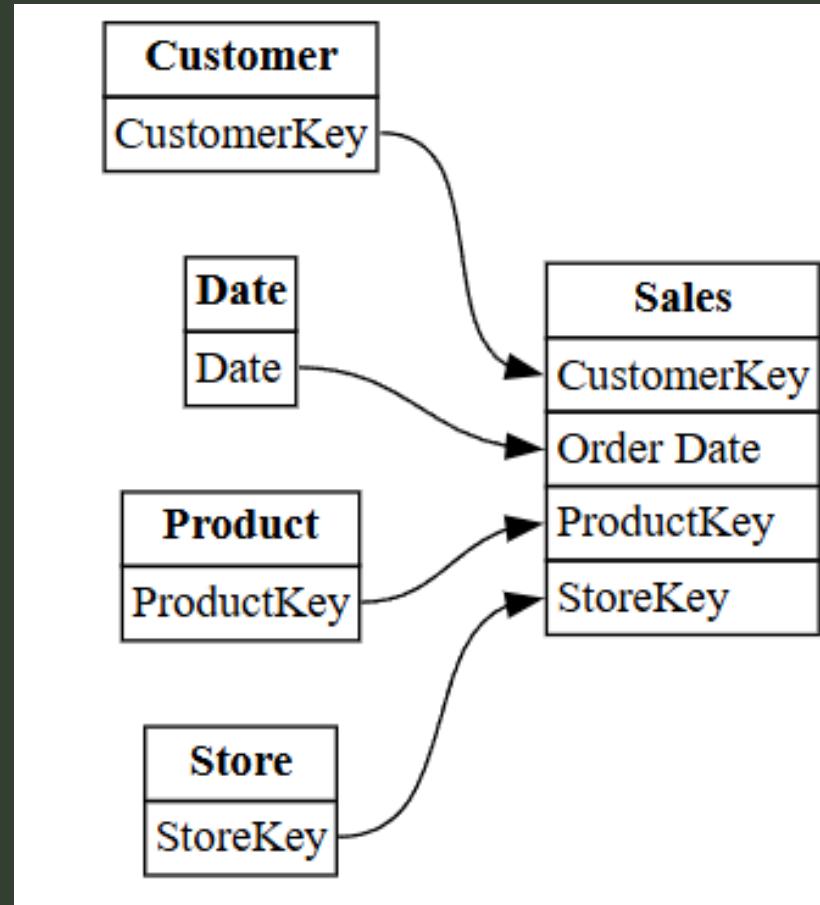
PySpark (Python) ▾

	ABC Id	0/1 Is Read Only	0/1 Is On Dedicated Capacity	ABC Capacity Id	ABC Default Dataset Storage Format	ABC Type	ABC Name
1	41e69008-f...	false	true	3b9ac229-bcbb...	Small	Workspace	ONSQL2023
2	10c0ad3f-7...	false	true	3b9ac229-bcbb...	Small	Workspace	SOFLSQL2023
3	10c2bd0a-...	false	true	3b9ac229-bcbb...	Small	Workspace	COLSQLSAT2023
4	365a3880-...	false	true	3b9ac229-bcbb...	Small	Workspace	BRSQLSAT2023
5	e6e71dc2-...	false	true	3b9ac229-bcbb...	Small	Workspace	DENSQLSAT2023
6	782b40a8-...	false	true	3b9ac229-bcbb...	Small	Workspace	SQLMAB
7	62e33fa7-f...	false	true	3b9ac229-bcbb...	Small	Workspace	SQLSAT_Denver2023
8	9a5d4f1a-b...	false	true	3b9ac229-bcbb...	Small	Workspace	MNSQLSAT2023
9	ba1e683d-...	false	true	3b9ac229-bcbb...	Small	Workspace	ORLANDOSQLSAT2023
10	be75ac57-...	false	true	3b9ac229-bcbb...	Small	Workspace	SV-SQLSat2023
11	4d139fc8-0...	false	true	3b9ac229-bcbb...	Small	Workspace	ORWA23_SQLSAT
12	23c86de6-...	false	true	3b9ac229-bcbb...	Large	Workspace	TE Training
13	ad0afb41-...	false	true	3b9ac229-bcbb...	Small	Workspace	PremTest
14	2e6ae09d-...	false	true	3b9ac229-bcbb...	Large	Workspace	SQLBits2024
15	5f6564c6-1...	false	true	27046857-fc30-...	Small	Workspace	MetaDriven-2

Selected Cell 14 of 21 cells

Relationships

```
from sempy.relationships import plot_relationship_metadata as prm  
prm(fabric.list_relationships(workspace="SQLMAB", dataset = "SQLMab"))
```



Model Health

Best Practice Analyzer
Memory Analyzer
Community Notebooks

The screenshot shows the Microsoft Fabric interface for the 'Hyrule10K' workspace. The top navigation bar includes 'Fabric', 'Hyrule10K', 'Search', 'Power BI trial: 38 days left', and a user profile icon. The left sidebar lists 'Home', 'Workspaces', 'Copilot', 'OneLake catalog', 'Monitor', 'Real-Time', 'Workloads', 'AtlantaBI_SLL', and 'My workspace'. The main content area displays 'Details for Hyrule10K' with a refresh timestamp of '11/1/25, 9:07:33 AM'. Below this are two cards: 'Discover business insights' (Explore this data) and 'Share this data' (Share semantic model). A section titled 'See what already exists' shows items from the same data source. On the right, a 'Model health' card highlights 'Best practice analyzer', 'Memory analyzer', and 'Community notebooks'. A sidebar on the far right lists tables: Customer, Date, Product, Sales, and Store, with a note to 'Create paginated report (preview)'.



Semantic Link Demo



Our Journey



1. Intro
2. Notebooks
3. Semantic Link
4. Semantic Link Labs
5. Conclusion

Version

0.4.2 in June 18, 2004

Now up to 0.12.5

Created

Migrate from Import to Direct Lake

Install the Package

```
# Install Semantic Link Labs
```

```
%pip install semantic-link-labs
```

```
# Import module with a shorter name
```

```
# Easier to Type
```

```
import sempy_labs as labs
```

Helper Notebooks

- MIGRATION TO DIRECT LAKE
- BEST PRACTICE ANALYZER REPORT
- CAPACITY MIGRATION
- DELTA ANALYZER
- MODEL OPTIMIZATION
- QUERY SCALE OUT

Helper Notebooks Part 2

- REPORT ANALYSIS
- SQL
- SEMANTIC MODEL MANAGEMENT
- SEMANTIC MODEL REFRESH
- SERVICE PRINCIPAL
- TABULAR OBJECT MODEL

Obstacles

- May Require Spark
 - This function may be executed in either a PySpark or pure Python notebook. If executing in a pure Python notebook, the dataframe must be a pandas dataframe.
- May not fully work with Lakehouse Schemas

Update Dependencies

Installing Semantic Link Labs will
update Semantic Link

Expands Semantic Link

- Does not replace or overwrite
- Have both available
- Same as if imported DuckDB or other packages

In the Environment: Install the Expansion Pack (DLC)

Create Environment (Workspace)

Synapse Data Science BPA

Search

New

Current workspace: BPA

Items will be saved to this workspace.

Data Activator

Detect patterns and conditions in your Power BI reports and streaming data, and then take actions such as alert users or kick-off workflows.

Reflex (preview)

Monitor datasets, queries, and event streams for patterns to trigger actions and alerts.

Data Engineering

Create a lakehouse and operationalize your workflow to build, transform, and share your data estate.

Lakehouse

Store big data for cleaning, querying, reporting, and sharing.

Notebook

Explore data and build machine learning solutions with Apache Spark applications.

Environment

Set up shared libraries, Spark compute settings, and resources for notebooks and Spark job definitions.

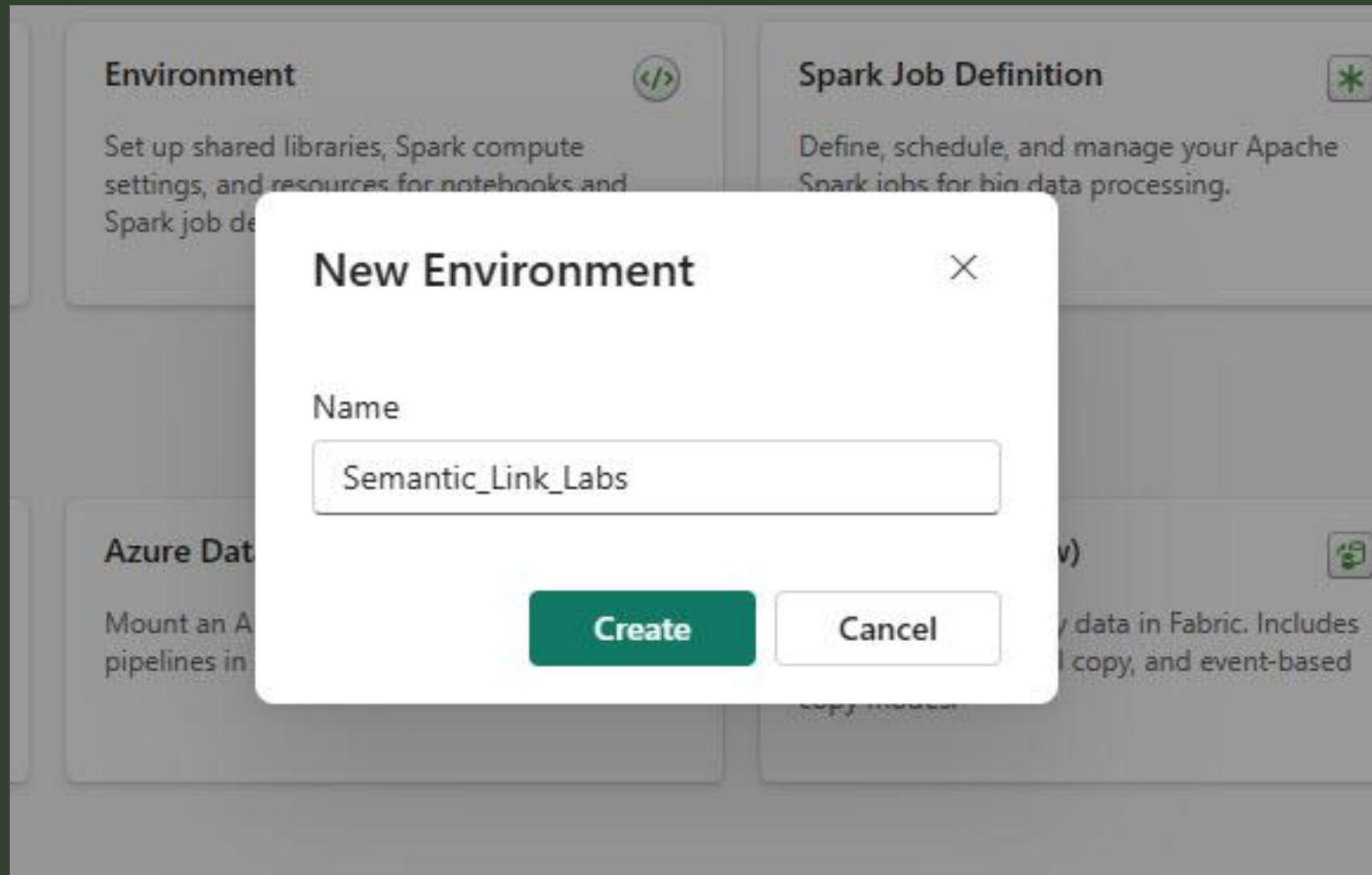
Spark Job Definition

Define, schedule, and manage your Apache Spark jobs for big data processing.

API for GraphQL™ (preview)

Create an API for GraphQL to easily connect your applications to Fabric data sources.

Create Environment



Create Environment

Libraries

- Built-in Libraries
- Public libraries
- Custom libraries

Spark compute

- Compute (1)
- Spark properties

Storage

- Resources

Public libraries

Search and add libraries from public repositories or via a .yml file. They'll be available if you run your notebook or Spark job definition in this environment. [Learn more](#)

There's nothing here yet

Add libraries from public repositories or via a .yml file.

[Add from PyPI](#)

Create Environment

Libraries

Built-in Libraries

Public libraries 1

Custom libraries

Spark compute

Compute 1

Spark properties

Storage

Resources

Public libraries

Search and add libraries from public repositories or via a .yml file. They'll be available if you run your notebook or Spark job definition in this environment. [Learn more](#)

<input type="checkbox"/>	Library ↑	Version	Source	Status	Last updated
<input type="checkbox"/>	semantic-link-labs	0.8.3	PyPI	New	New

Specific Versions

- Allows you to develop with specific versions
- Move to newer version when ready

Publish (Important)

You have unpublished changes. To apply these changes to notebooks and Spark job definition run in this environment, select Publish. To save your changes without updating the environment, select Save.

Save Publish

Public libraries

Search and add libraries from public repositories or via a .yml file. They'll be available if you run your notebook or Spark job definition in this environment. [Learn more](#)

<input type="checkbox"/>	Library ↑	Version	Source	Status	Last updated
<input type="checkbox"/>	semantic-link-labs	0.8.3	PyPI	New	New

Filter by name

Libraries

- Built-in Libraries
- Public libraries** 1
- Custom libraries

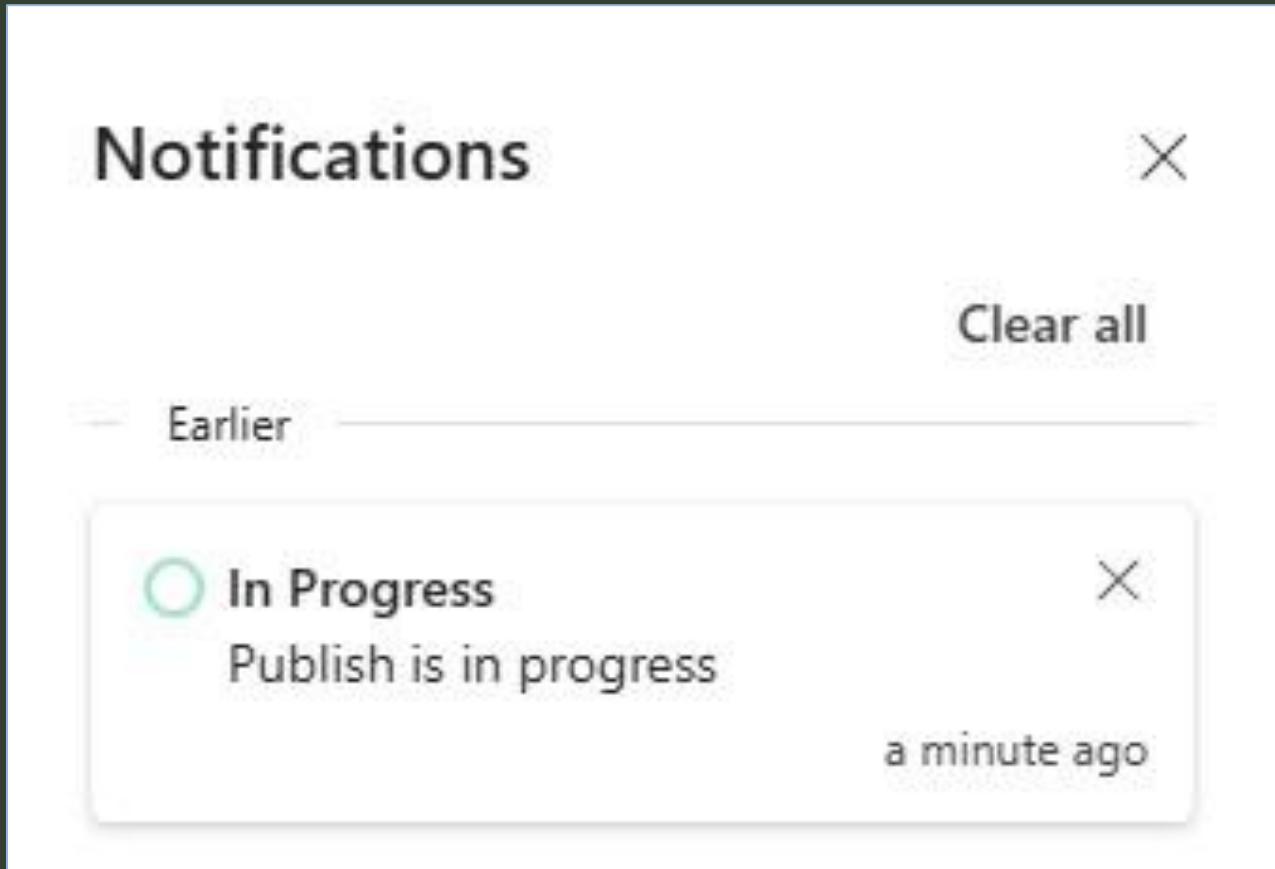
Spark compute

- Compute 1
- Spark properties

Storage

Resources

Environment takes time to publish



Workspace Settings - Environment

Workspace settings

- General
- License info
- Azure connections
- System storage
- Git integration
- OneLake
- Workspace identity
- Network security

Power BI

Delegated Settings

Data Engineering/Science

Spark settings

Data Factory

 This section contains unsaved changes.

Spark settings

Configure and manage settings for Spark workloads and the default environment for the workspace.

Pool **Environment** Jobs High concurrency Automatic log

Set default environment

The default environment will provide Spark properties, libraries, and developer settings for notebooks and Spark job definitions in this workspace when users don't select a different environment. [Learn more about Set default environment](#)

Semantic_Link_Labs

Filter by keyword

Available environments

Semantic_Link_Labs

Runtime: 1.3 (Spark 3.5, Delta 3.2), Compute: Medium, 1-10 nodes

New environment

Spark driver memory

56g

Spark executor core

8

Spark executor memory

56g

Dynamically allocate executors

Enabled

Spark executor instances

1-9

 On

Notebook Setting - Environment

Best Practice Analyzer Report | Saved ▾

⚠ Your free Fabric trial is ending. This item will be deleted if you do not upgrade to a paid capacity. [Learn more](#) ⓘ

Home Edit Run View

File Download Settings Run all Connect PySpark (Python) Environment Workspace default Data Wrangler

Explorer Data sources Resources Uploaded data and files Lakehouses 1 item(s) added Warehouses 0 item(s) added

Install the latest version of Semantic Link Labs

Check [here](#) to see the latest version.

1 %pip install semantic-link-labs
- Session ready in 10 sec 930

Filter by keyword

Workspace default

✓ Workspace Settings Runtime: 1.3 (Spark 3.5, Delta 3.2), Compute: Medium, 1-10 nodes

Available environments

Semantic_Link_Labs Runtime: 1.3 (Spark 3.5, Delta 3.2), Compute: Medium, 1-10 nodes

New environment

The screenshot shows a Jupyter Notebook interface with a dark theme. The top navigation bar includes 'Home', 'Edit', 'Run', and 'View'. Below the navigation is a toolbar with icons for file operations, a refresh button, a gear icon for settings, and a 'PySpark (Python)' button. A dropdown menu titled 'Environment' is open, showing a 'Workspace default' section with a note about a free trial ending and a 'Workspace Settings' entry for a runtime of 1.3. Below this is an 'Available environments' section for 'Semantic_Link_Labs' with similar details. A red box highlights the 'Environment' dropdown and its contents. On the left, there's an 'Explorer' sidebar with sections for 'Data sources', 'Resources', 'Lakehouses', and 'Warehouses'. The main area displays a code cell starting with '%pip install semantic-link-labs' and a message indicating the session is ready in 10 seconds. A status bar at the bottom shows the date '0/26/2024'.

Executing Notebook using a Pipeline

- Either
 1. Use Environment with Semantic Link Labs
 - Microsoft recommended way
 - Only for Spark
 2. Python inline installation
 - Enable %pip install for pipeline, add "_inlineInstallationEnabled" as bool parameter equals True in the notebook activity parameters.

Reference:

- <https://learn.microsoft.com/en-us/fabric/data-engineering/library-management>



Semantic Link Labs Demo



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Not if but when

- Recommended solution at some point
- Continues to add functionality
- Evolving to adapt to Fabric changes
 - Lakehouse Schemas

Resources

Semantic Link

- <https://learn.microsoft.com/en-us/fabric/data-science/semantic-link-overview>

Semantic Link labs

- <https://github.com/microsoft/semantic-link-labs>

Semantic Link Labs - Read the Docs

- https://semantic-link-labs.readthedocs.io/en/stable/sempy_labs.html

Resources

Tabular Editor Training (Notebooks, Semantic Link, and semantic-link-labs)

- <https://tabulareditor.com/learn>
- Sandeep Pawar
 - <https://fabric.guru/fabric-semantic-link-and-use-cases>
- Zelda Dataset (Zelda: Breath of the Wild Hyrule Compendium)
 - <https://www.kaggle.com/datasets/elisamork/zelda-breath-of-the-wild-hyrule-compendium>

Thank you

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The DAX Shepherd