



Databricks goes Power Bl

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ABOUT ME



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ABOUT ME



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BISHER

INGEST STORE MODEL & SERVE

DIMINIONAL SERVE

Pact, Joad.dtsx

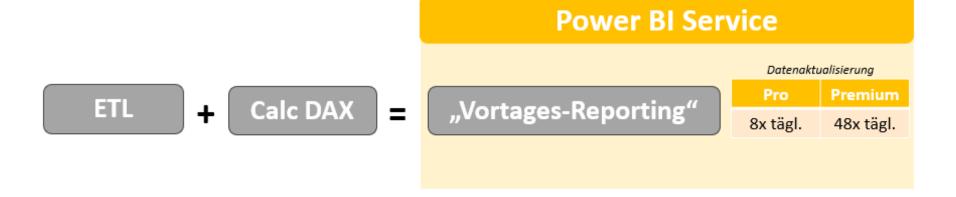
Relational DWH

SSAS SSRS





BISHER



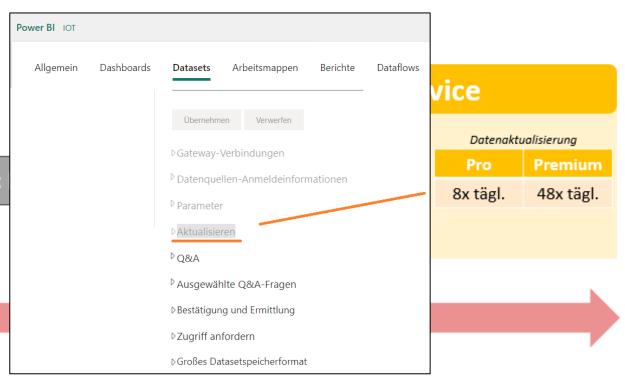
Zeitlicher Verzug





BISHER

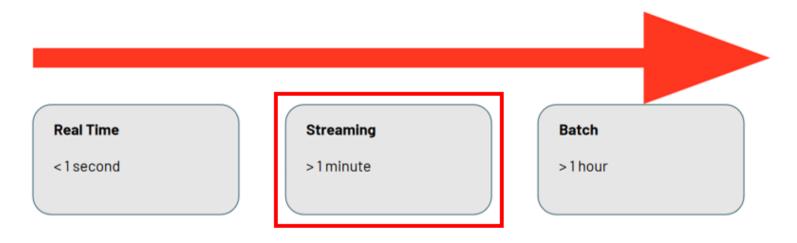
ETL + Calc







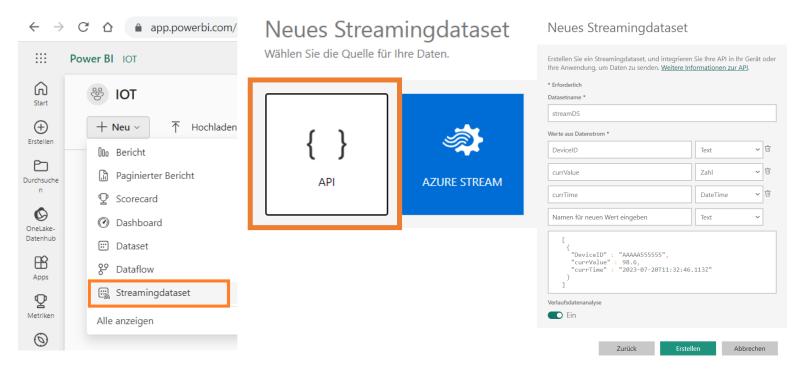
JETZT







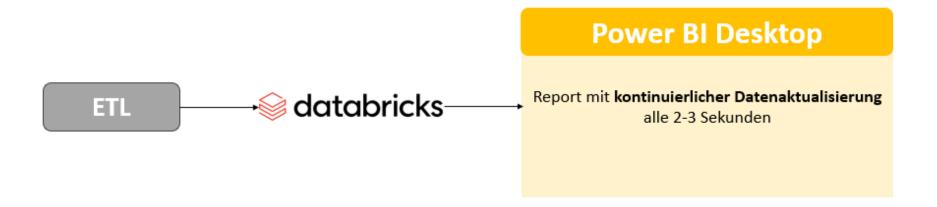
PBI CLOUD-VARIANTE







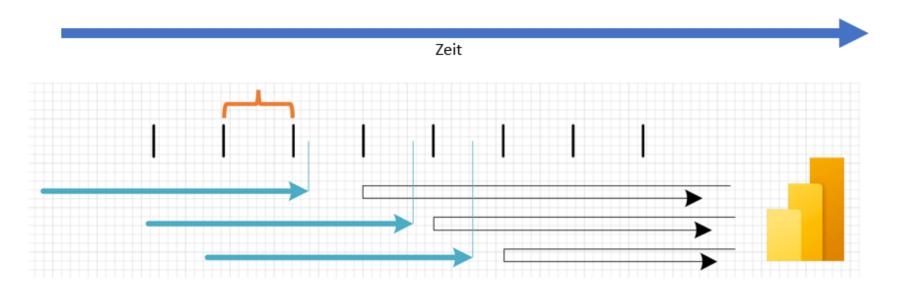
JETZT







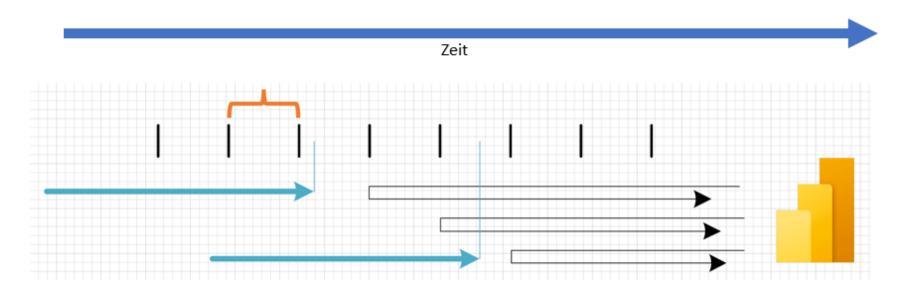
ZEITLICHE ABFOLGE







ZEITLICHE ABFOLGE







DEMO

Beispiel 1







FEINHEITEN

• .gif-Animation

In neuester PBI Version leider nicht mehr verfügbar

- Security im SQL-Server
- SQL Table/ View muss bereits "Struktur" für charting besitzen (z.B. tsql-Window functions)





DEPLOYMENT

- Security zentral im SQL-Server (PowerBl ist "Desktop-App", keine Web-Application)
- copy-Deployment (einfach zu realisieren)
- besser mit "Berichtsvorlagen ".pbit" vermeidet "unerwünschte" Datenweitergabe
- .. oder via "DevOps"



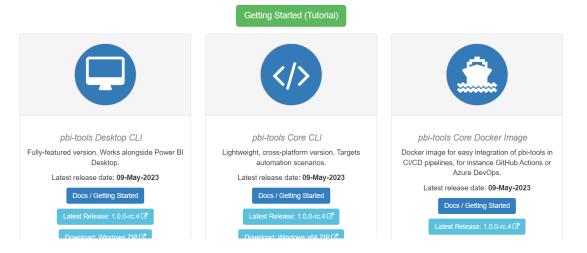


DEPLOYMENT



Source Control and DevOps for Power BI

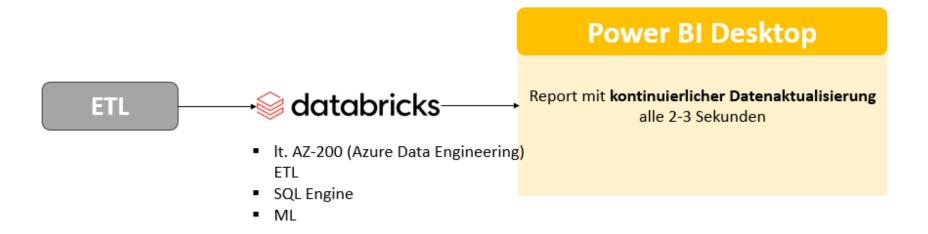
pbi-tools solves a long-standing problem in the Power BI development community. It provides tools to bring Power BI projects under source control, enabling professional development workflows and enhanced governance. Available for free and with open source code (MIT License) on GitHub.







JETZT







WAS LEIDER NICHT GEHT

• .parquet & .delta

können in PowerBI verwendet werden, aber NICHT im Direct-Query Mode → der BlobStorage ist keine "intelligente" Datenquelle

PowerQuery/ M muss den Import durchführen





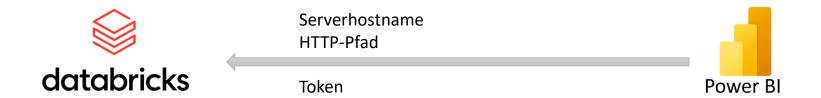
UMSETZUNG

- 1. CREATE DATABASE
- 2. Dataframe.saveAsTable("DatabaseName.TableName")
- 3. JobSchedule





Connect from PowerBI



Beispiel:

Server: adb-700000000902215.15.azuredatabricks.net

HTTP: sql/protocolv1/o/700000000902215/0905-120717-3vyupm2a

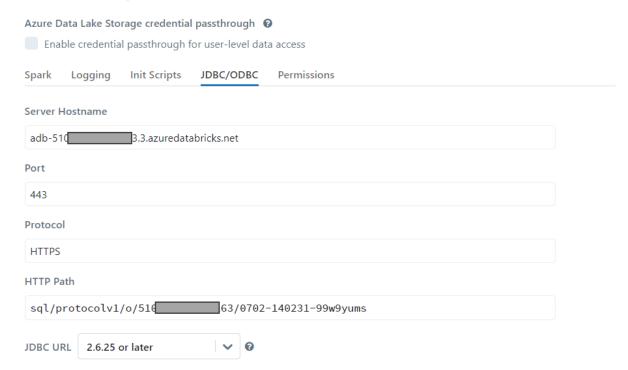
Token: dapi7098be000000000bb7cbc76cb989f1f2-2





CONNECT FROM POWER BI

Advanced options







CONNECT FROM POWER BI

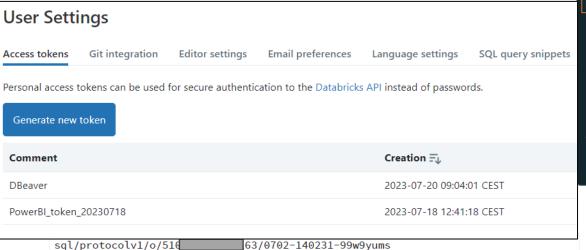
2.6.25 or later

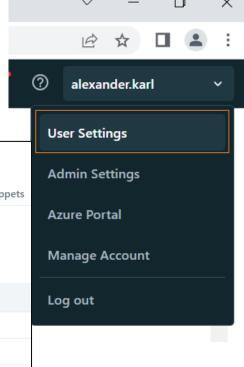
JDBC URL

Advanced options

Azure Data Lake Storage credential passthrough **②**

Enable credential passthrough for user-level data access

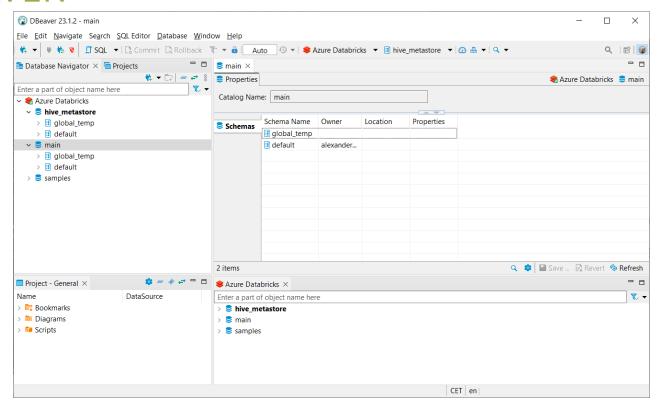








DBEAVER







DEMO

Beispiel 2







DATABRICKS SQL

- featureset= ANSI-Kompatibel
- > f date_from_unix_date
 > f date_part
 > f date_sub
 > f date_trunc
 > f dateadd

 > f lag
 > f last
 > f last_day

> f date_format

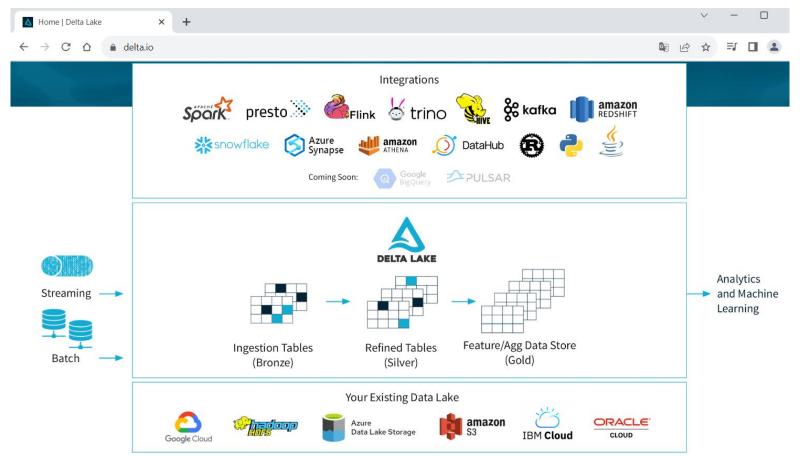
f last_valuef lcasef lead

> f xpath_int
> f xpath_long
> f xpath_number
> f xpath_short
> f xpath_string

• .. das war der erste Streich







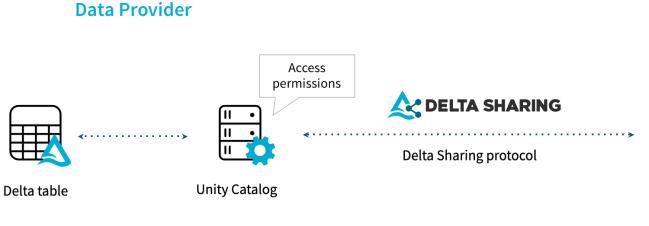




DELTA SHARING



An open standard for secure data sharing



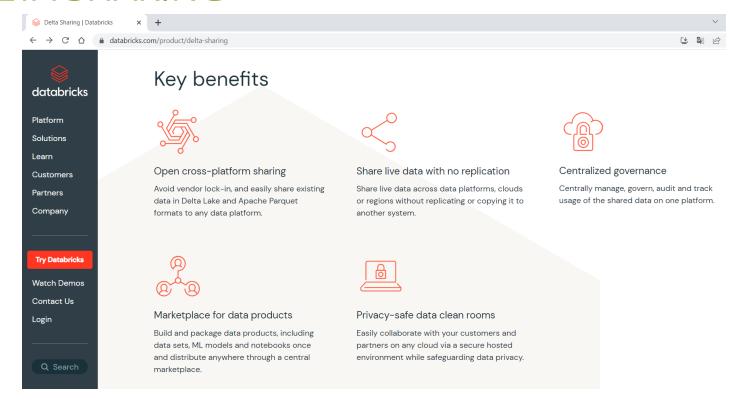
Data Recipient







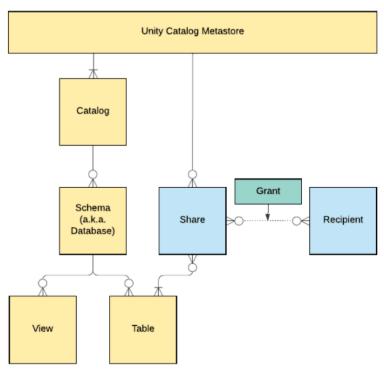
DELTA SHARING







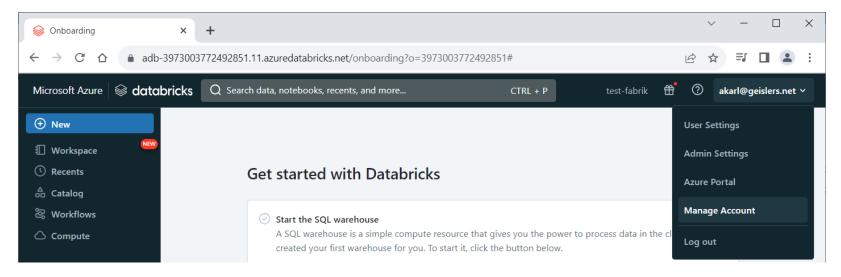
PREREQUISIT: UNITY CATALOG







DELTA SHARING



bei fehlender "Admin" Berechtigung leitet das [Manage Account] wieder zum Workspace ..

https://learn.microsoft.com/de-de/azure/databricks/administration-guide/#account-admins





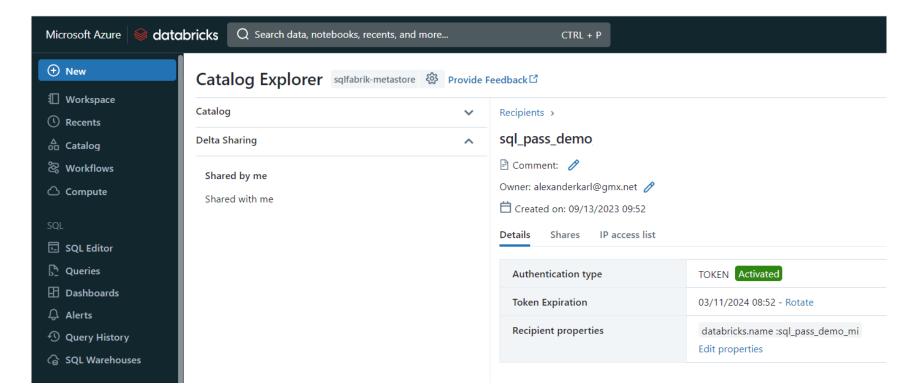
DELTA SHARING







UMSETZUNG







DELTA SHARING

a databricks

You've been given access to a dataset through Delta Sharing.

This credential file can only be downloaded once, so don't lose it.



By clicking "Download Credential File" or otherwise using a credential file or accessing shared data through <u>Databricks</u>. Recipient represents that it has been authorized to access the data by the party who created the share (known as 'Data Provider') and acknowledges that (1) Databricks has no liability for the data or Recipient's use of such data, and (2) Databricks may collect information about Recipient's use of and access to the data (including identifying Recipient and any individual who accesses data using the credential file in connection with such information) and may share it with the Data Provider.

Access this share in:









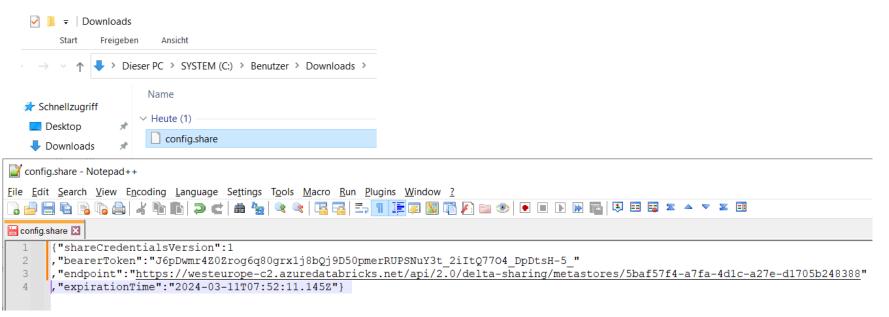








DELTA SHARING







DEMO

Beispiel 3







LINKS

- https://sql-fabrik.de/Databricks/
- https://sql-fabrik.de/Bl-workbook/ SQLDB_Verlag_Schema-Information.pdf
- https://github.com/sqlfabrik-pictures



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Thank you very much for your attention.

Vielen Dank für Eure Aufmerksamkeit.