



Getting started with data transformation services in Azure

Elkhan Yusubov – Principal Cloud Architect | MCT

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T-FREX



Elkhan Yusubov
Principal Cloud Architect



Elkhan is a principal cloud architect and 14 times MSFT MCT with experience in cloud solutions, enterprise healthcare systems and healthcare data, and API standards (HL7 FHIR, EDI X12).

He is an active MCT, a Microsoft Tech Community Contributor and Azure SME (Architecture, DevOps, Security).

He is a frequent speaker at tech meetups and has volunteered for Give Camps, Azure Data Fest, SQL Saturday and Global Azure events.

The Cloud Marathoner:

www.thecloudmarathoner.com



Company Snapshot: T- Rex Is...

- ▶ **An Innovative NGIT Provider:** a leading solutions provider of innovative and modernizing Next Generation IT capabilities and enabling skills to the federal government
- ▶ **A first to market in migrating large federal mission applications and data** into a citizen-facing public cloud, giving the Company the capabilities and past performance to bid and win future NGIT opportunities in adjacent federal agencies
- ▶ **A Prime Contractor on 2020 Census,** one of the largest (scale) and most complex mission critical cloud/cyber/data analytics integration projects within the federal government



- ▶ **Integrated 52 mission-critical systems comprised of 200+ applications** operating in a hybrid hyper-converged data center and Amazon Web Service ("AWS") public facing GovCloud protected by a world class active cyber defense (ACD) solution. Also includes a VDI-based Office 365 solution supporting 40k+ users and MS Azure AD managing 350k+ mobile users

Achievements & Partnerships



Silver Data Analytics
Silver Application Development
Silver Data Platform

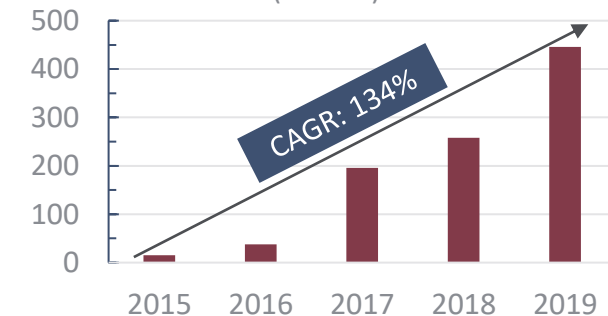


Company Info

- **Established:** 1999
 - **Legal Structure:** LLC
 - **Headquarters:** Greenbelt, MD
 - **8(a)/HUBZone & SDVOSB Joint Ventures:** Ability to deliver services as a small business concern
 - **Prime/Sub (09/20):** 98.5% Prime
 - **Backlog (09/20):** \$341.6MM
- Prime Vehicles/BPAs:**
- GSA Schedule 70
 - USDA Cloud COE BPA
 - Dept of Commerce ESF

Financial Summary

T-Rex Annual Revenue (USD M)



What we will cover

ADF
Concepts

Pipelines and
Activities

Linked
Services

Datasets

Pipeline
execution

Monitoring

Triggers

Data flows

What we will not cover



Integration with 3rd part services



CI/CD in pipelines



ADF supported external activities

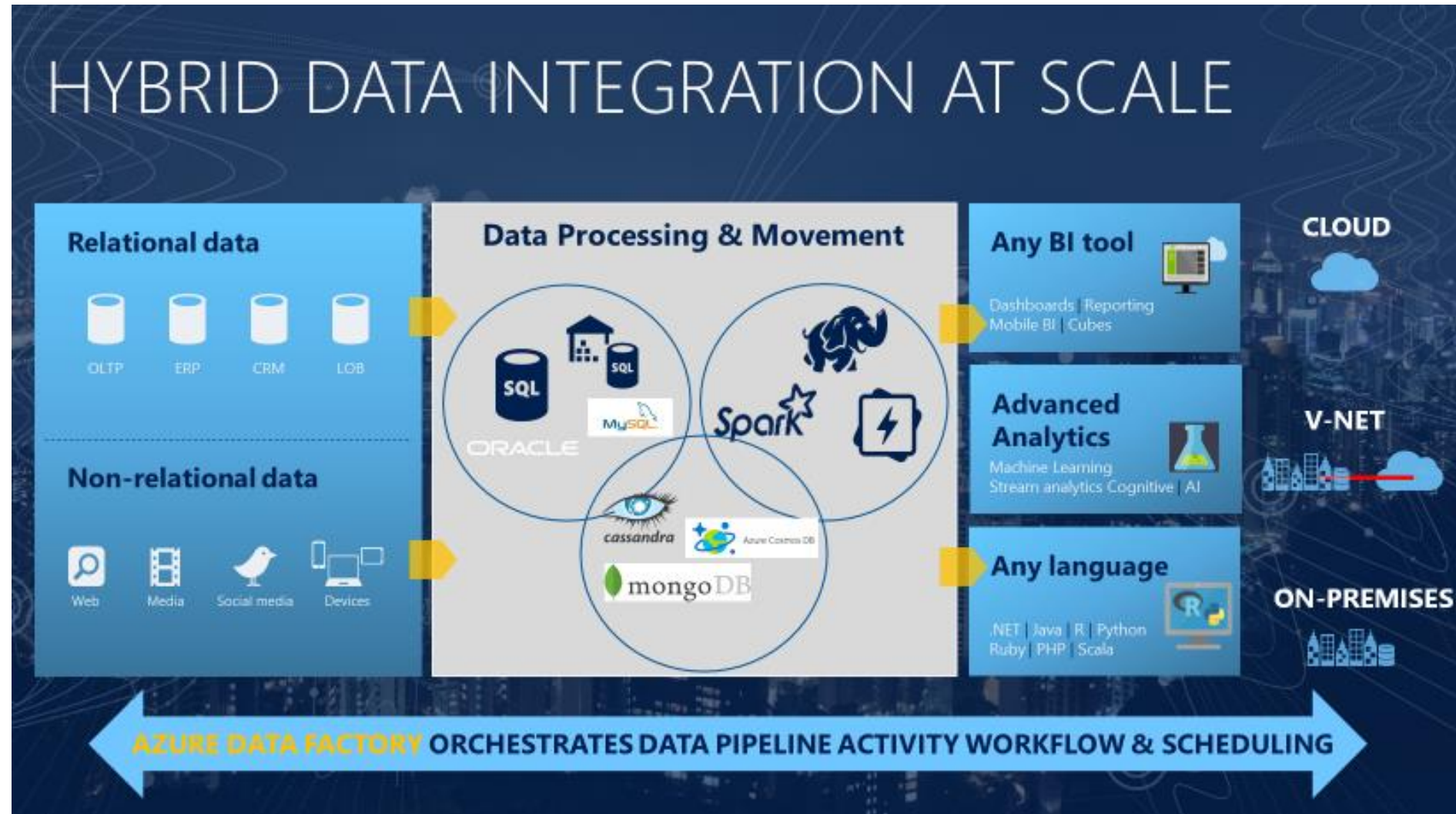


Integration Runtimes



Advanced topics

What is ADF and WHY ?



Top Concepts in ADF

Pipelines

Activities

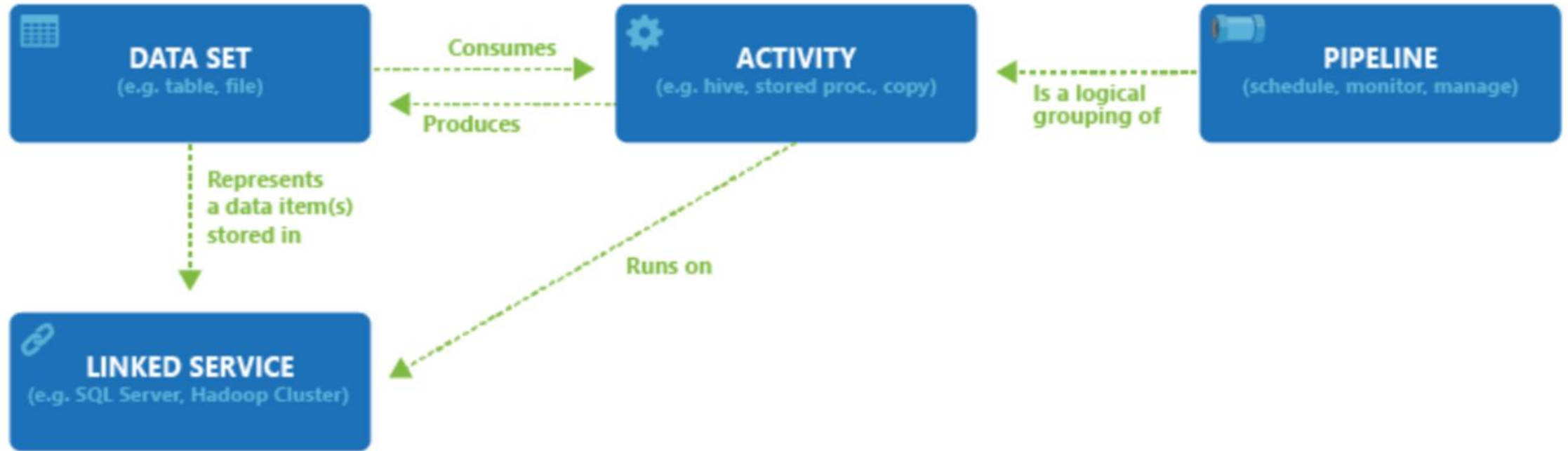
Datasets

Linked Services

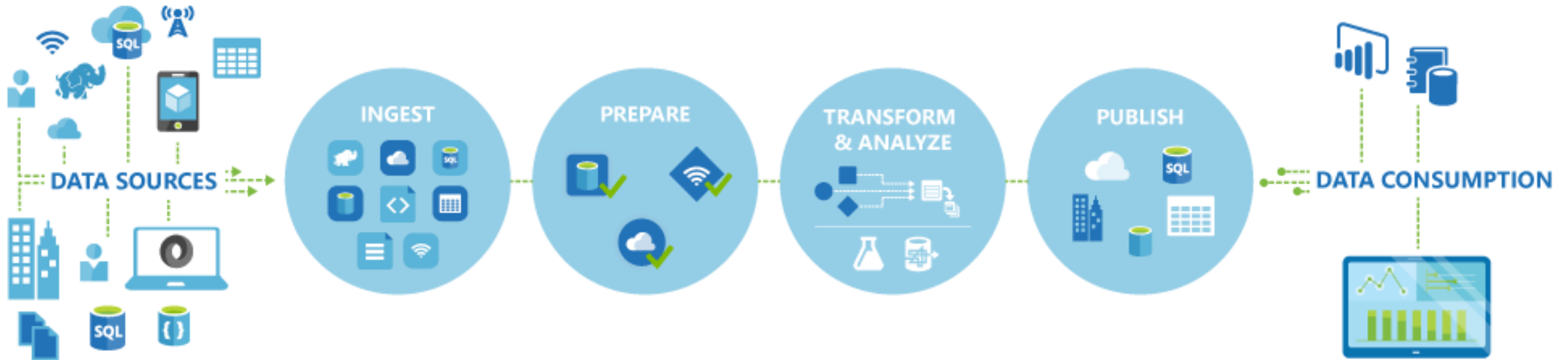
Data Flows

Integration Runtimes

Relationship between ADF components

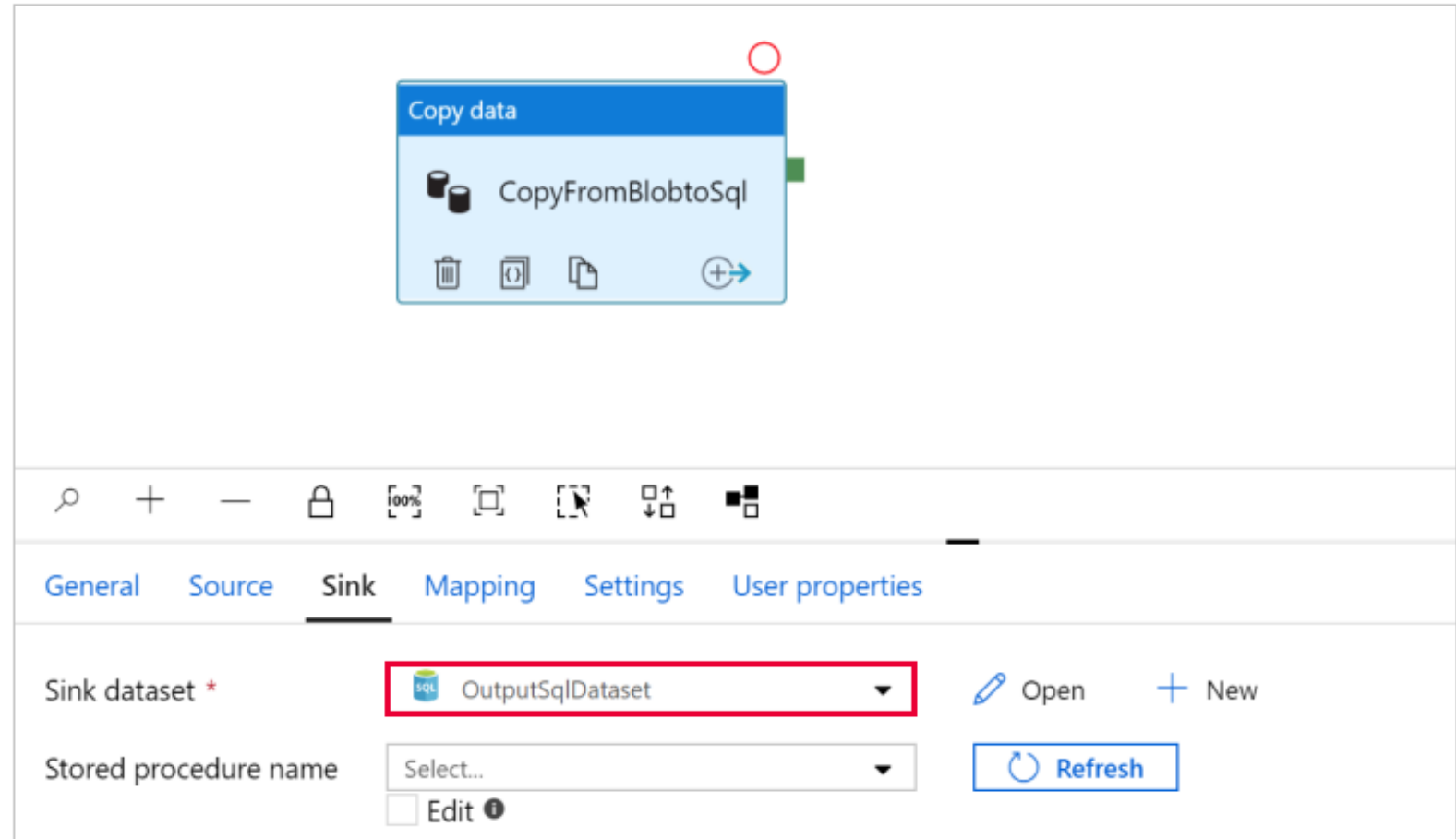


What ADF does?



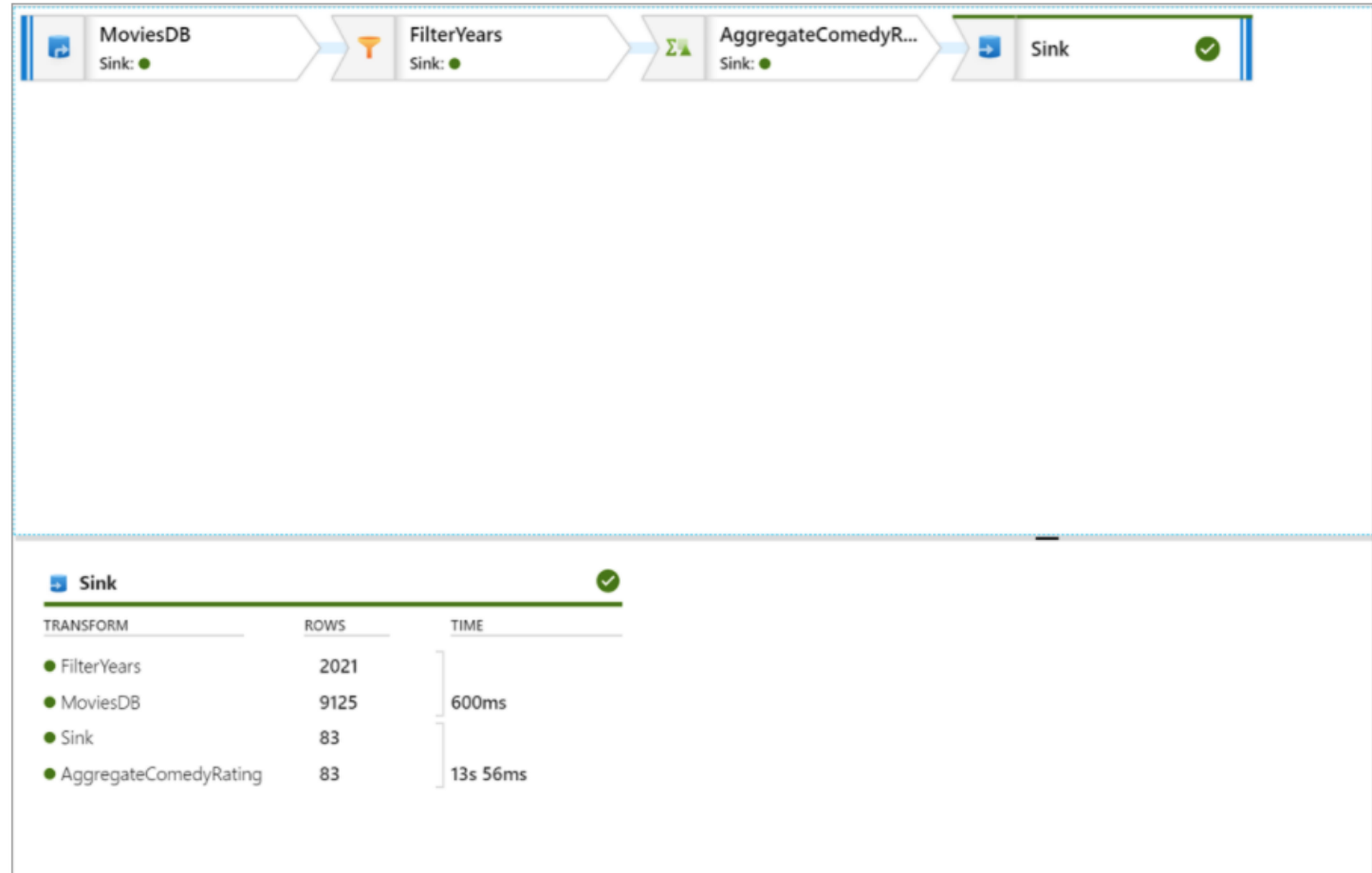
Demo 1 – Data copy activity

Azure Blob storage >>> Azure SQL Database, using Azure Data Factory



Demo 2 – Data Transformation

Transform data using mapping data flows in Azure Data Factory



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T-FREX

Q & A



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Data transformation services with ADF in Azure

All you need to know about data transformation journey