Microsoft Dynamics 365

Export to data lake – Finance and Operations Apps

Dynamics 365 FastTrack Architecture Insights

Jila Yadav, Sr. Solution Architect

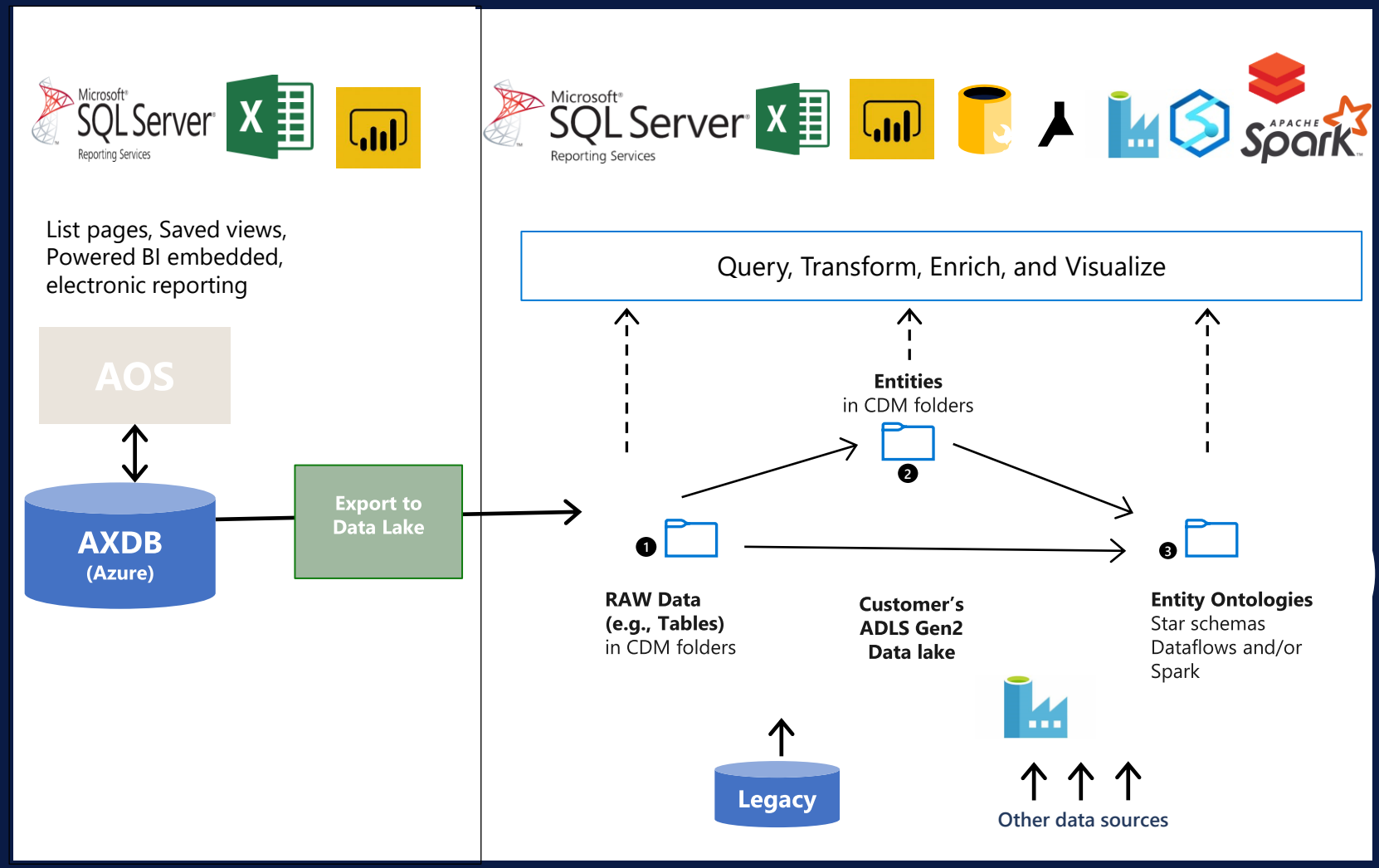
Agenda

- Feature overview
- Comparing Export to data lake with BYOD
- Query, Transform and Visualize
- Common use cases
- FastTrack analytics solution templates
- Q&A

Export to data lake - Feature overview

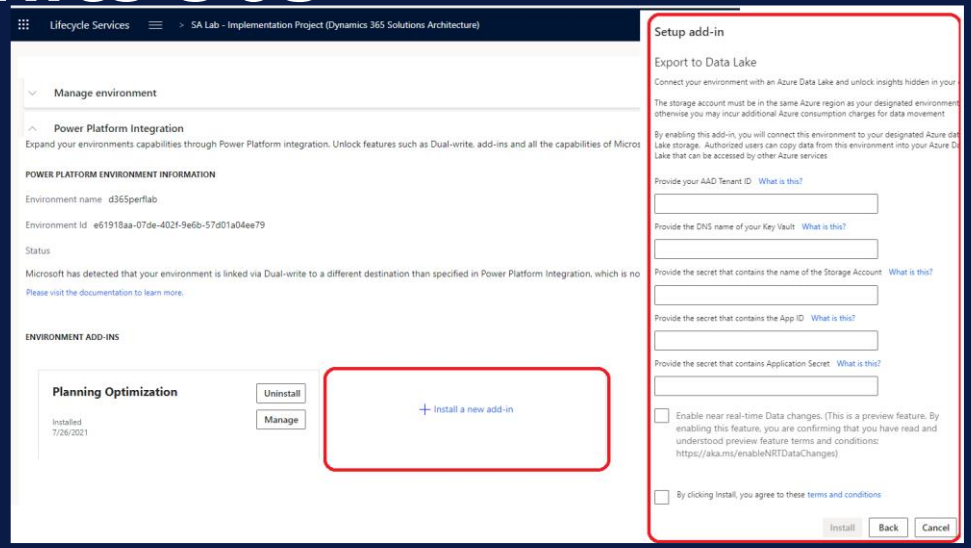
What is it?

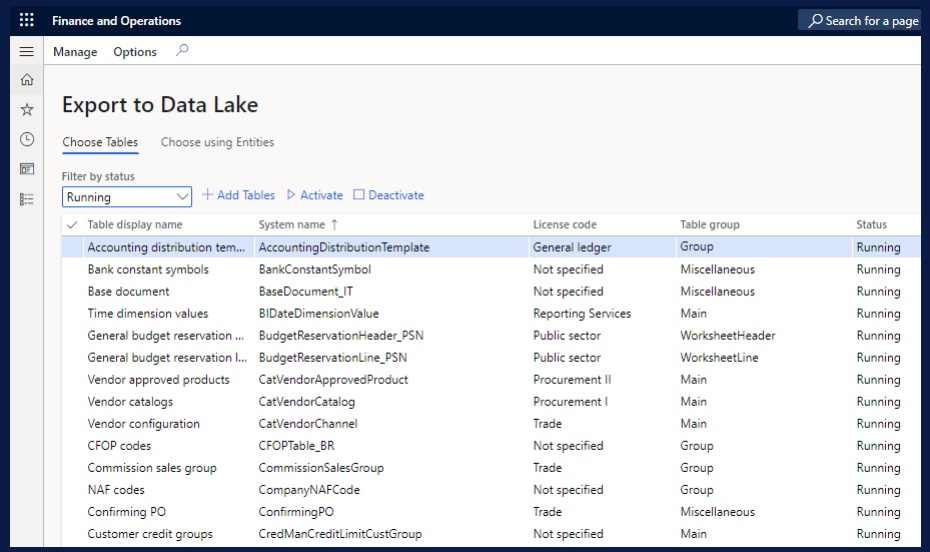
- Microsoft managed service based on microservice architecture.
- Enabled by installing LCS add-in
- Exports data to data lake and keep updated
- Use modern data technologies to query, transform and visualize



Connecting to Dynamics 365

1. Connect your data lake to Dynamics 365
2. Choose Data
3. System manages export
4. Configure data consumption





https://community.dynamics.com/365/dynamics-365-fasttrack/b/techtalks/posts/export-to-azure-data-lake-overview-december-14-15-2021

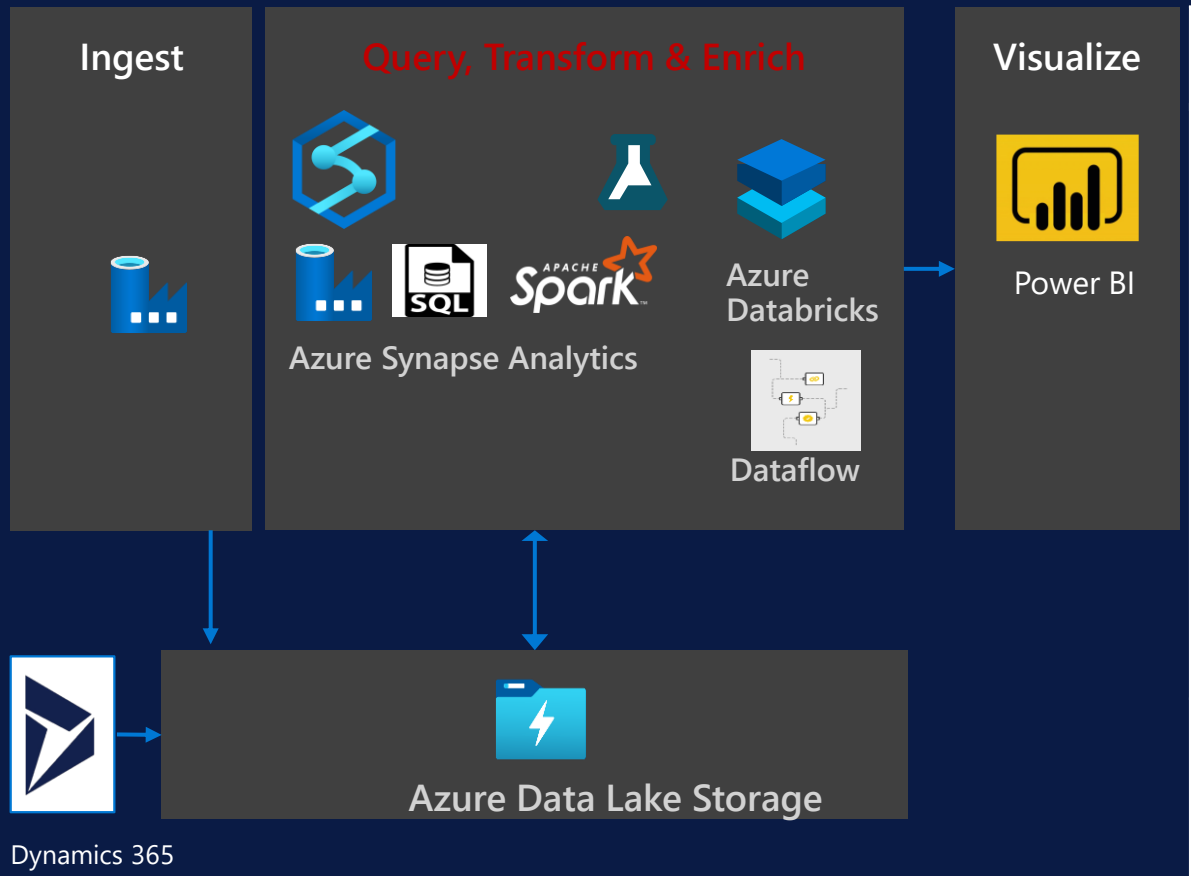
Comparing Export to data lake with BYOD

	BYOD	**Export to data lake**
Cost	• Requires provisioning Azure SQL database • Custom data entity development / extension required to export data	• Low data lake storage cost • Any standard or custom table available to export
Performance Impact	• Utilize Batch jobs to export changes • Utilize primary DB to read and export incremental changes • Higher performance impact on operational system	• Microservice sits outside of Finance and Operations env • Utilize read only secondary DB to read changes • Lower performance impact
Maintenance and monitoring	• Batch job scheduling /maintenance and monitoring is required	• Service takes care of scheduling – no maintenance required from admin
Use cases	• Traditional data warehouse, data integration using TSQL	• Modern data warehouse architecture utilizing TSQL, Spark, data integration

Common use cases

- Modern data warehouse in the cloud
- Analytical and operational reporting
- Data mashup reporting
- Data warehouse integrations
- Retire BYOD

Query, transform and visualize



Services	Features	Description/ skill set
Synapse analytics	Synapse pipelines (Azure data factory)	• Code-Free data ingestion & ETL. • 90+ connector including on-prem systems. • Similar to SSIS **Use case :** Data ingestion , data transformation(ETL) as low code. **Skill set : Low code, TSQL, SSIS**
	Spark pool	• Apache spark integrated with Synapse Analytics. **Use case:** Data preparation, data engineering, and machine learning. **Skill set : Spark, Scala, Python, .NET, TSQL**
	SQL pools • Dedicated • **Serverless**	• Distributed query system supporting TSQL • Enables data warehousing and data virtualization. **Use case:** Enterprise data warehouse, ETL, logical data warehouse. **Skill set : TSQL**
Azure databricks	Apache spark Delta lake Data Lakehouse	• Apache Spark integrate with open-source libraries. • Delta lake support. • Data virtualization with Lakehouse **Use case:** Data prep, data engineering, Delta lake, Lakehouse **Skill set :Python, Scala, R, and TSQL**
Power BI	Power BI Dataflow/ Power Query	Self-service visual data prep tool to prep data for Power BI **Use case:** **Skill set:** Power query, M

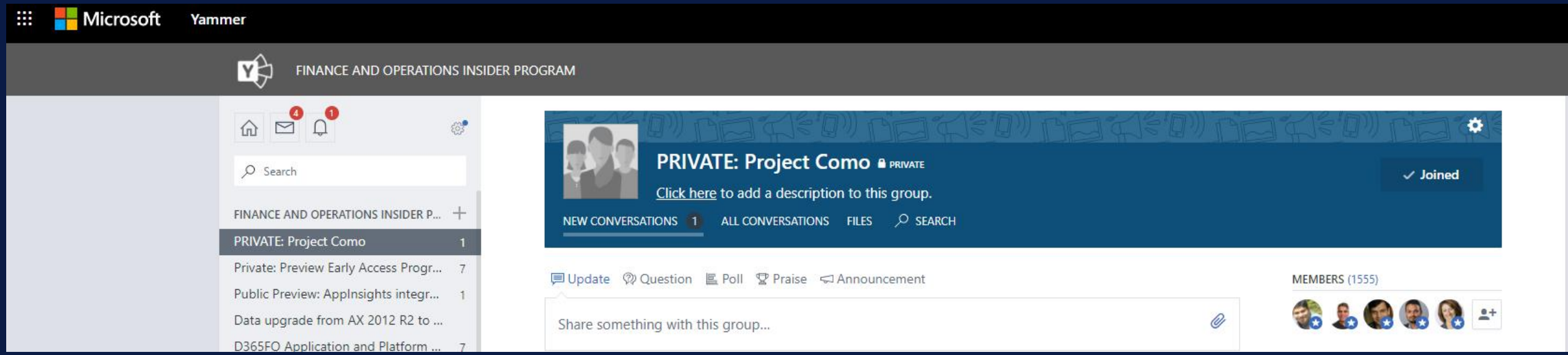
Demo – FastTrack Analytics solution templates

Jila Yadav

https://github.com/microsoft/Dynamics-365-FastTrack-Implementation-Assets/tree/master/Analytics

Yammer group

https://www.yammer.com/dynamicsaxfeedbackprograms/#/threads/inGroup?type=in_group&feedId=32768909312



Thank you