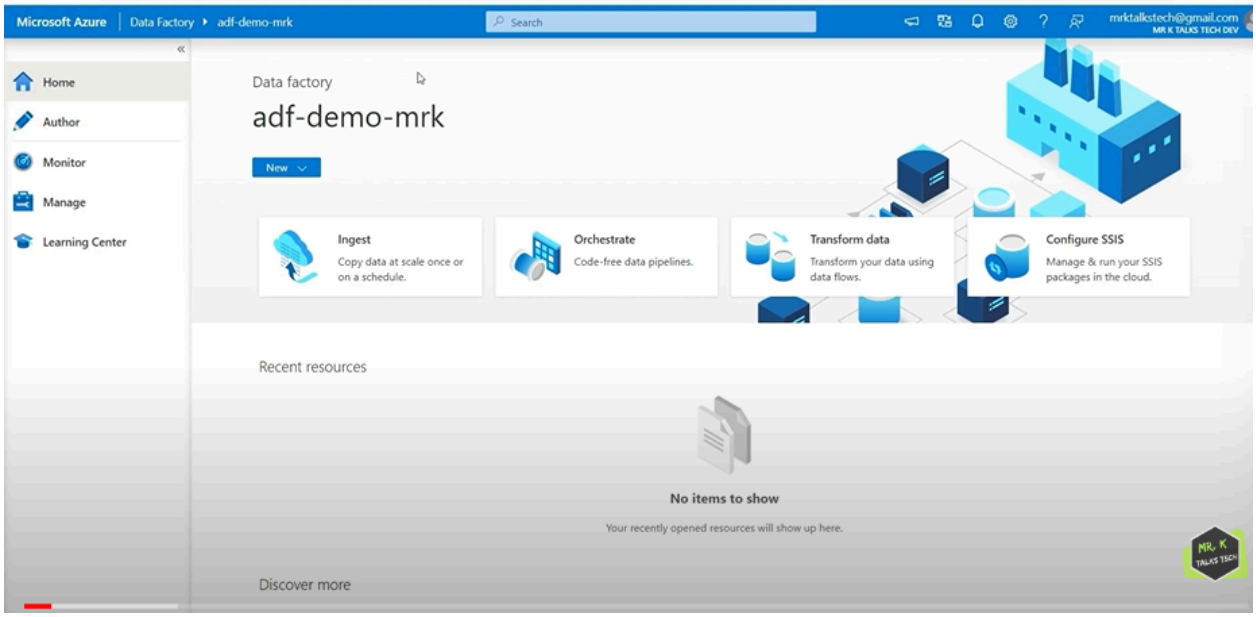
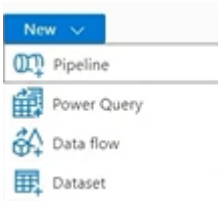
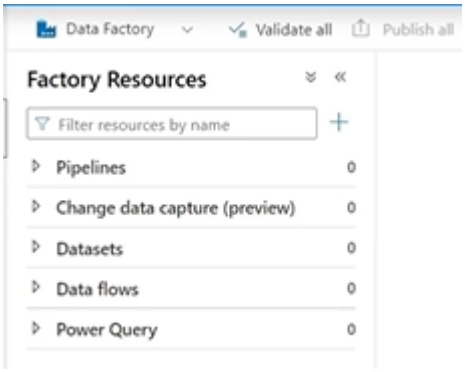
ADF Studio Tour

1. Inside the ADF we have created yesterday..we have this workspace



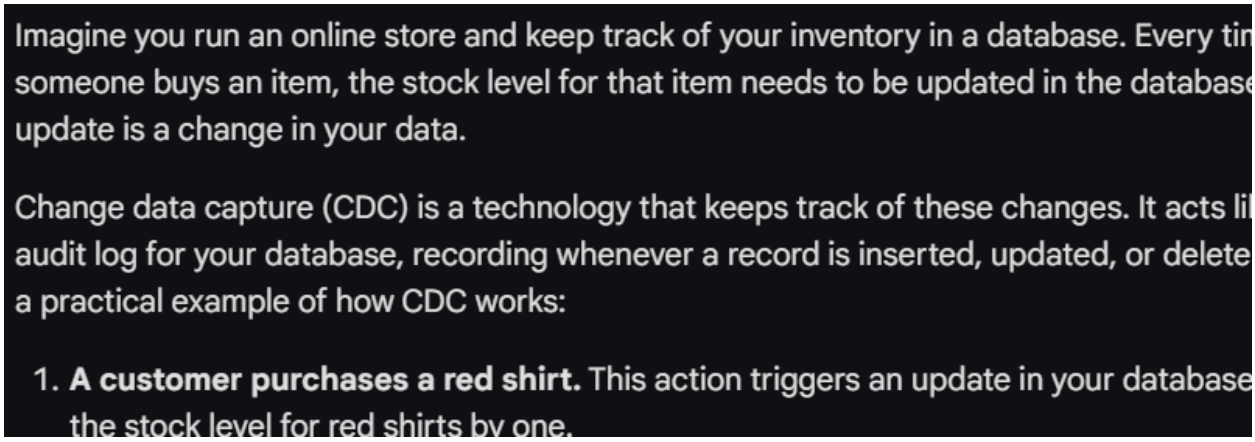
2. We can create this 

directly from the ADF..and also we can perform Ingesting, Orchestrating, Transforming and Configure SSIS is for connecting on perm

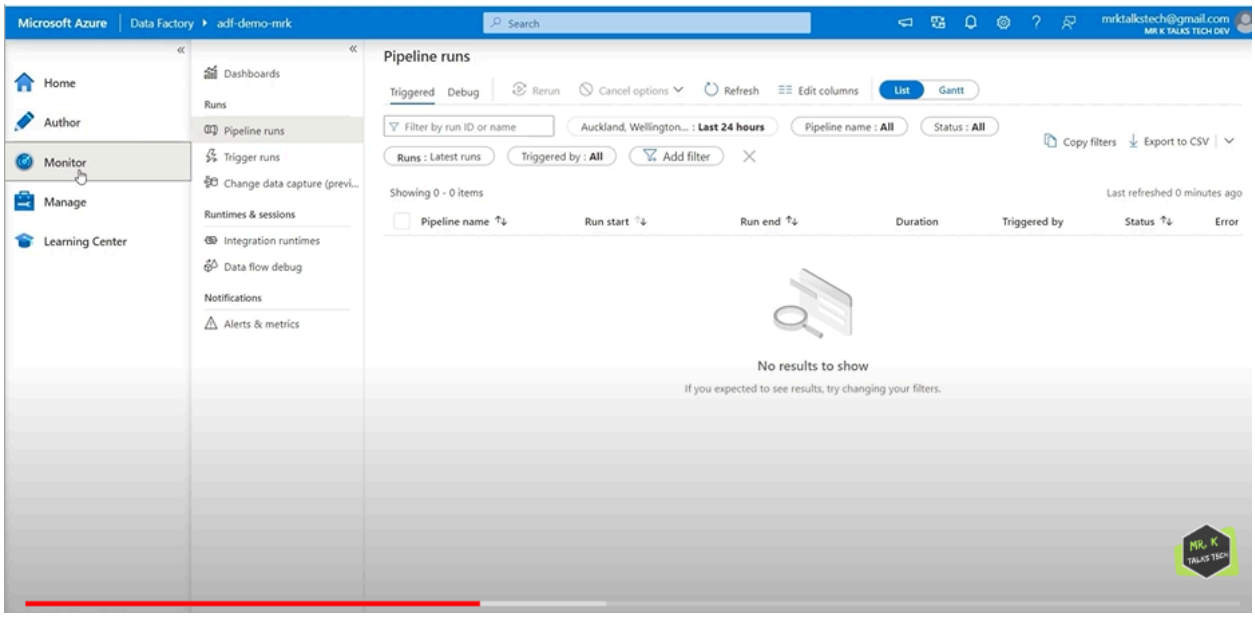
3. Lets go to author tab 

here we have this options…this is the main tab to do any development activities
4. Lets see each option in Author tab
5. Using the pipeline..We can create any ETL pipeline that transfer data from source to dest by making transformations

6. Change data capture is new feature in ADF

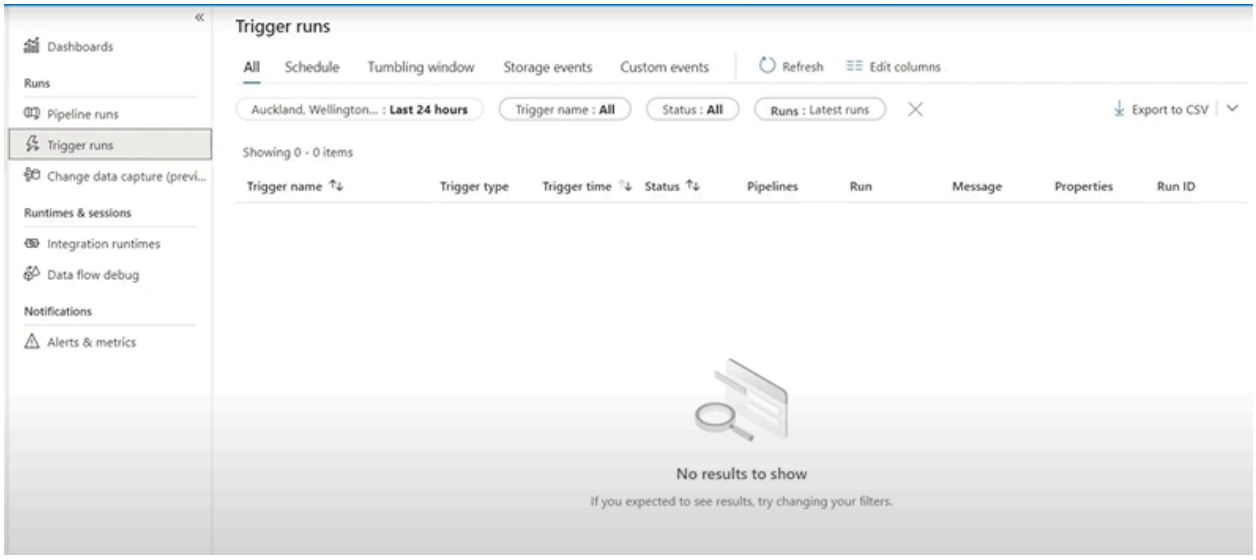


7. Datasets we'll learn them in coming videos
8. Using the data flows..we can make some transformations without writing the code
9. Power query is also used for transformation of data using some built in functions
10. Monitor tab is used to monitor all the development tasks creating using author tab



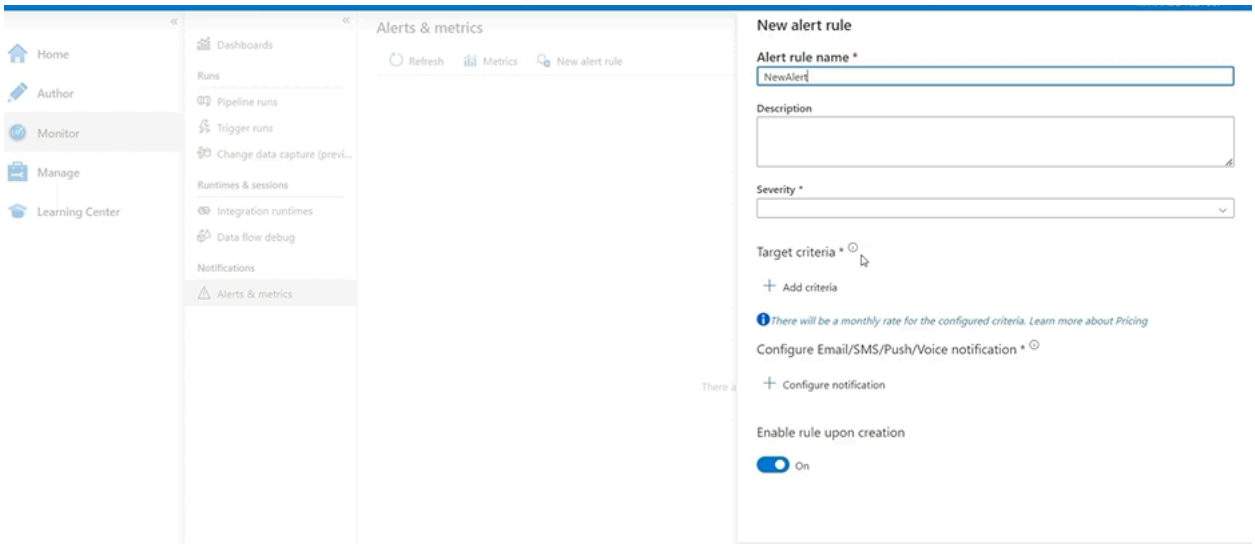
11. Here we can see pipeline runs..which gives us info about our pipeline

12. In triggers runs…we can setup our pipeline to trigger at an event

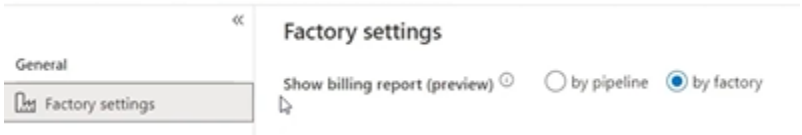


here we can monitor our triggers

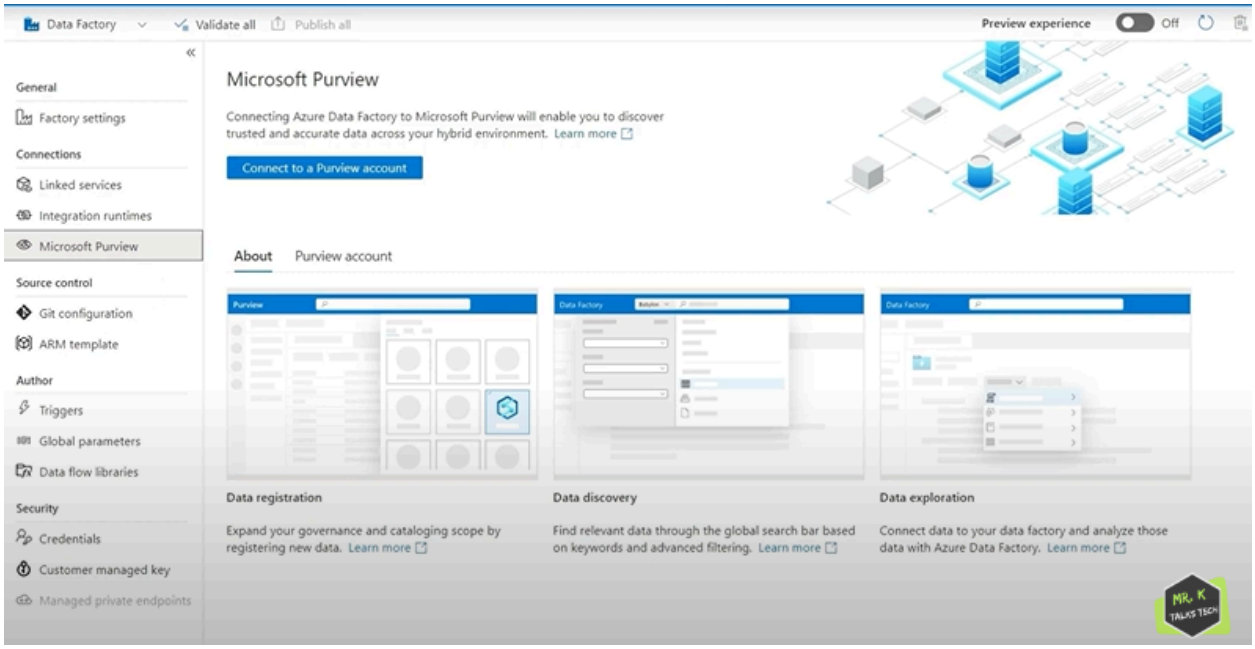
13. We can also monitor our CDC data
14. Here alert & metrics is very imp…helps us notifying in case of any pipeline,trigger failures etc



15. Lets go to the manage tab …it gives us ability to configure the settings on our ADF
16. Like we can get billing report



17. Lets see microsoft purview



Scenario: Complying with Data Privacy Regulations

Imagine you're a healthcare provider with a vast amount of patient data stored on-premises and in the cloud. You need to comply with regulations like HIPAA (Health Insurance Portability and Accountability Act) that safeguard sensitive patient information.

How Purview Helps:

1. **Data Discovery:** Purview automatically scans your data sources, both on-premises and in the cloud (e.g., Azure Blob Storage, SharePoint). It creates a comprehensive map of your data landscape, identifying where all your patient data resides.
2. **Data Classification:** Purview allows you to define sensitivity labels for different types of patient data (e.g., high risk, medium risk). These labels can be automatically applied based on keywords or data patterns identified during scanning.
3. **Data Lineage:** Purview tracks the movement of your patient data throughout your systems. You can see where the data originates, where it goes, and how it's transformed. This helps ensure all access and modifications are compliant with regulations.
4. **Access Control:** Purview integrates with Azure Active Directory to manage user permissions. You can restrict access to sensitive patient data based on user roles and job functions. This ensures only authorized personnel can access specific data types.

18. Lets go to git config now..it helps us integrating the repository with azure data factory

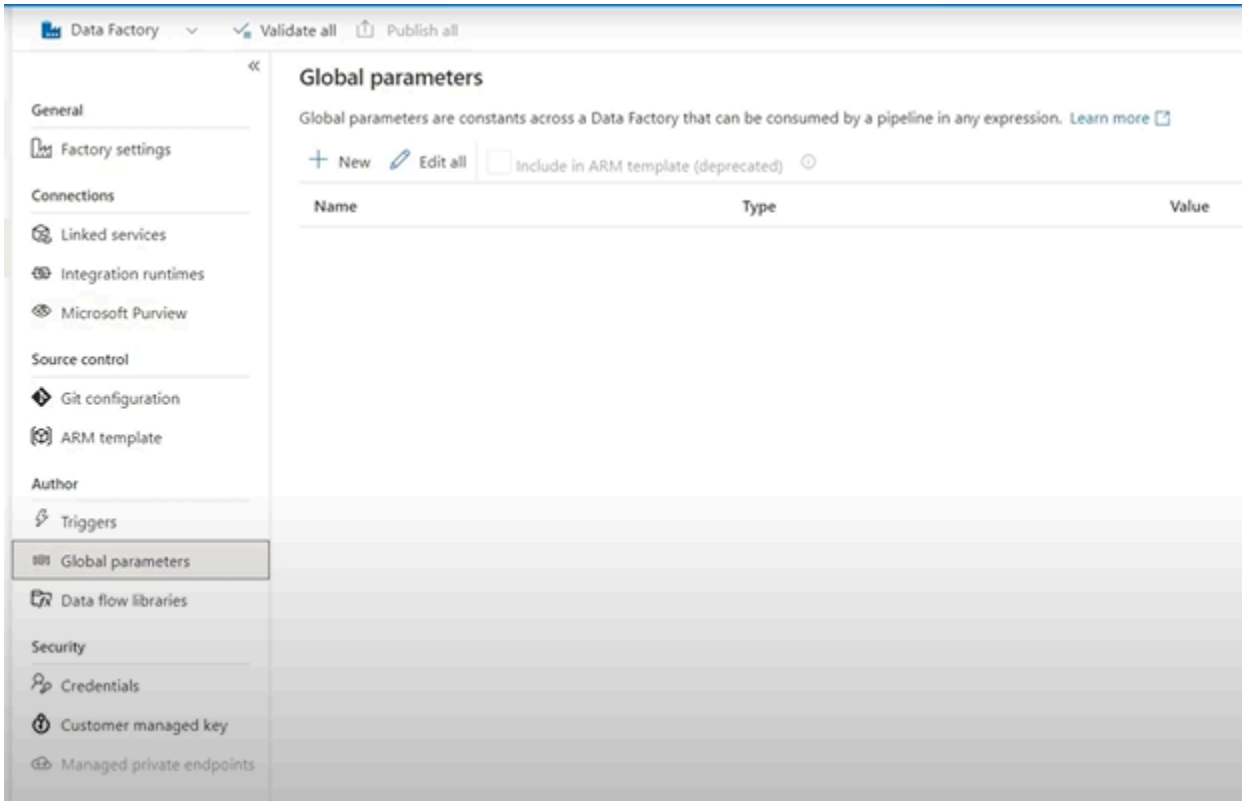
19. Now lets see ARM template : https://g.co/gemini/share/de66b2d5b5fb

Azure Resource Manager (ARM) templates define the infrastructure and configuration for your Azure resources in a declarative format. They use JSON (JavaScript Object Notation) to specify the resources you want to create and their properties.

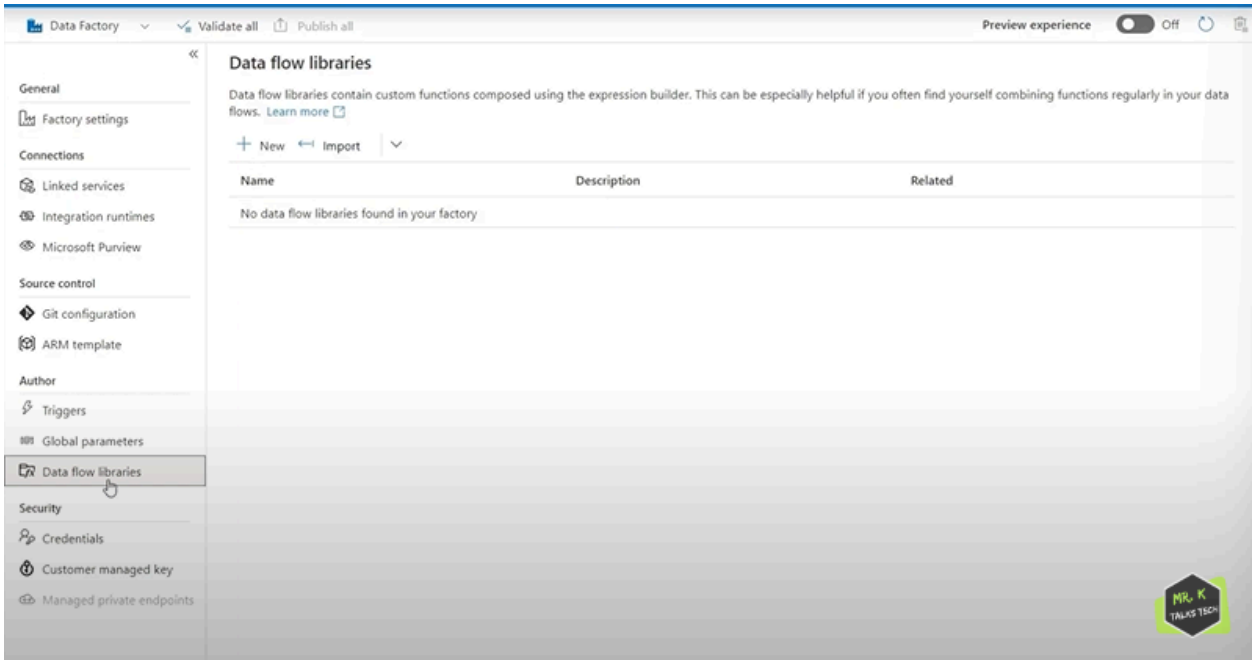
Here are the key benefits of using ARM templates:

- **Repeatable deployments:** Ensure consistent infrastructure configuration across environments.
- **Reduced errors:** Eliminate manual configuration mistakes.
- **Infrastructure as code:** Manage infrastructure alongside your application code.
- **Parameterization:** Make your templates reusable by accepting variable inputs.

20. Next we have global parameters…where we can create parameters…like key value pairs…and we can use this in diff pipelines



21. Nxt Data flow libraries..which is also like global params..here we can define custom functions …This functions can be used in dataflow section

22. 
Data Factory
Validate all
Publish all
Preview experience
Off
Data flow libraries
Data flow libraries contain custom functions composed using the expression builder. This can be especially helpful if you often find yourself combining functions regularly in your data flows. Learn more
New
Import
Name
Description
Related
No data flow libraries found in your factory
General
Factory settings
Connections
Linked services
Integration runtimes
Microsoft Purview
Source control
Git configuration
ARM template
Author
Triggers
Global parameters
Data flow libraries
Security
Credentials
Customer managed key
Managed private endpoints
MR. K TALKS TECH
23.