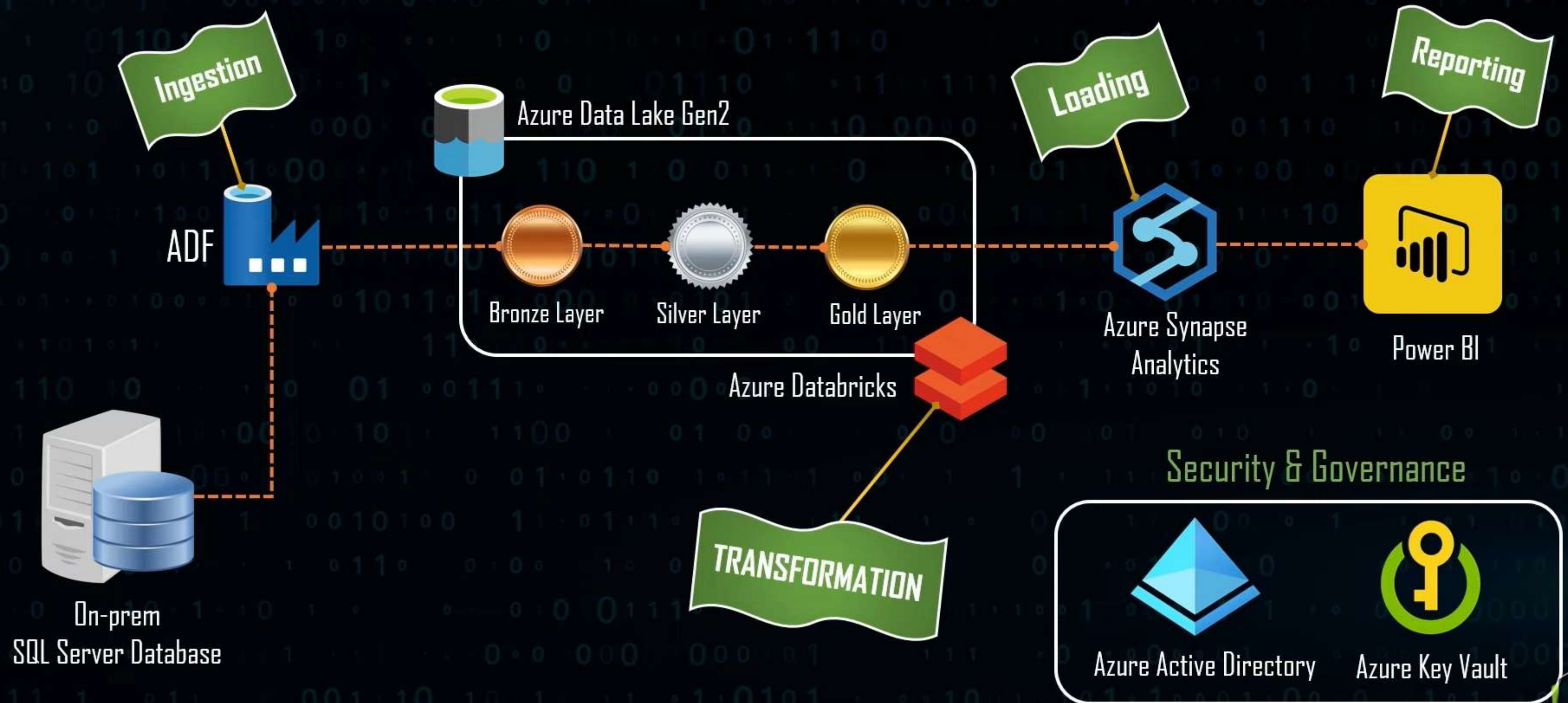


# Project Overview- Architecture



Home ×az-dat ×az-dat ×az-dat ×az-dat ×az-dat ×storag ×bronz ×azure ×az-syr ×






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Microsoft AzureUpgradeSearch resources, services, and docs (G+/)ankit7anku@outlook.comDEFAULT DIRECTORY

→More services

Resources

RecentFavorite

Name	Type	Last Viewed
 az-data-engineering-prjct	Resource group	a few seconds ago
 az-synapse-ak-prjct	Synapse workspace	an hour ago
 az-prjct-new-synapse	Synapse workspace	15 hours ago
 dbmanagedidentity	Managed Identity	16 hours ago
 dbstoragejm7oxpodmdwz2	Storage account	19 hours ago

See all

Navigate

https://portal.azure.com/#create/hub



Home

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az-dat

storag

bronz

azure

az-syr

https://portal.azure.com/#@ankit7ankuoutlook.onmicrosoft.com/resource/subscriptions/786ef9a3-a...

Microsoft Azure

Upgrade

Search resources, services, and docs (G+)

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Home

az-data-engineering-prjct

Resource group

Search

Create

Manage view

Delete resource group

Refresh

Export to CSV

Open query

Assign tags

Overview

Activity log

Access control (IAM)

Tags

Resource visualizer

Events

Settings

Deployments

Security

Deployment stacks

Policies

Properties

Locks

Filter for any field...

Type equals all

Location equals all

Add filter

Showing 1 to 7 of 7 records.

Show hidden types

No grouping

List view

Name	Type	Location
az-data-factory-prjct	Data factory (V2)	Central India
az-databricks-prjct	Azure Databricks Service	Central India
az-key-vault-prjct	Key vault	Central India
az-prjct-new-synapse	Synapse workspace	Central India
az-synapse-ak-prjct	Synapse workspace	Central India
azuredatastorage	Storage account	Central India
demosynapse	Storage account	Central India

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Give feedback









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Share

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←

↺

https://adb-5334815596288407.7.azuredatabricks.net/browse/folders/483096285653835?o=533481559628...

A

☆

⚙

📄

★

🔖

🔍

👤

...

🔗

Microsoft Azure

databricks

🔍

Search data, notebooks, recents, and more...

CTRL + P

az-databricks-prjct

📺

?

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+

New

📁

Workspace

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Recents

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Catalog

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Workflows

☁

Compute

SQL

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SQL Editor

📄

Queries

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Dashboards

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Alerts

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Query History

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SQL Warehouses

Data Engineering

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Job Runs

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Data Ingestion

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Delta Live Tables

Workspace

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Workspace

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Favorites

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Trash

Workspace

Shared

📄

bronze-to-silver

📄

silver-to-gold

📄

storage-mount

Name	Type	Owner	Created
bronze-to-silver	Notebook	Ankit Kumar	12/27/2023
silver-to-gold	Notebook	Ankit Kumar	12/27/2023
storage-mount	Notebook	Ankit Kumar	12/27/2023



 Delta Live Tables

Share

Command took 6.38 seconds -- by ankit7anku@outlook.com at 2/1/2024, 12:22:12 pm on az-data-transformation-prjct



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https://adb-5334815596288407.7.azuredatabricks.net/?o=5334815596288407#notebook/48309628565385...

Microsoft Azure databricks

Search data, notebooks, recents, and more...

Run all cells in this notebook.

az-databricks-prjct

ankit7anku@outlook.com

New

Workspace

Recents

Catalog

Workflows

Compute

SQL

SQL Editor

Queries

Dashboards

Alerts

Query History

SQL Warehouses

Data Engineering

Job Runs

Data Ingestion

Delta Live Tables

bronze-to-silver

Python

File

Edit

View

Run

Help

Last edit was 6 days a...

Provide feedback

Run all

az-data-transformation...

Schedule

Share

Cmd 3

1 input\_path = '/mnt/bronze/premData/data\_10d81911-a69f-4433-a15a-b6e1d4c20a2d\_e996d02e-6f33-4b23-a45b-e1256509034f.parquet'

Command took 0.10 seconds -- by ankit7anku@outlook.com at 2/1/2024, 12:32:12 pm on az-data-transformation-prjct

Cmd 4

1 df = spark.read.format('parquet').load(input\_path)

(1) Spark Jobs

df: pyspark.sql.dataframe.DataFrame = [user\_id: integer, username: string ... 3 more fields]

Command took 0.20 seconds -- by ankit7anku@outlook.com at 2/1/2024, 12:32:12 pm on az-data-transformation-prjct

Cmd 5

1 display(df)

(1) Spark Jobs

Table

New result table: OFF

	user_id	username	email	birthdate	registration_date
--	---------	----------	-------	-----------	-------------------



 Delta Live Tables

Share

```
FileInfo(path='dbfs:/mnt/bronze/premData/data_fa1cb59c-2d0c-40a4-9a6e-49d422defa8b_db404b1-5d7d-4d15-96e5-1d5738faa516.parquet', name='data_fa1cb59c-2d0c-40a4-9a6e-49d422defa8b_db404b1-5d7d-4d15-96e5-1d5738faa516.parquet', size=1650, modificationTime=1704177044000)]
```



Home

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https://portal.azure.com/#@ankit7ankuoutlook.onmicrosoft.com/resource/subscriptions/786ef9a3-a...

Microsoft Azure Upgrade Search resources, services, and docs (G+/) ankit7anku@outlook.com DEFAULT DIRECTORY

Home > azuredatastorage

azuredatastorage

Containers

Storage account

Search

Container Change access level Restore containers Refresh Delete Give feedback

Search containers by prefix Show deleted containers

Name	Last modified	Anonymous access level	Lease state
<input type="checkbox"/> \$logs	12/26/2023, 7:55:55 PM	Private	Available
<input type="checkbox"/> bronze	12/26/2023, 8:06:37 PM	Private	Available
<input type="checkbox"/> gold	12/27/2023, 4:09:13 PM	Container	Available
<input type="checkbox"/> silver	12/27/2023, 4:09:01 PM	Container	Available

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Storage Mover

Data storage

Containers

File shares

Queues



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azure

az-syn

https://web.azuresynapse.net/en/authoring/explore/workspace/sqlscripts/SQL%20script%20?workspace=...

Microsoft Azure | Synapse Analytics | az-synapse-ak-prjct | Search | ankit7anku@outlook.com | DEFAULT DIRECTORY

Home

Data

Develop

Integrate

Monitor

Manage

Synapse live

Validate all

Publish all 1

Data

Workspace

Linked

Filter resources by name

SQL database 2

db-load-gold-data (SQL)

golddataloading (SQL)

External tables

External resources

Views

dbo.gold1

dbo.gold2

dbo.gold3

dbo.gold4

System views

Schemas

Security

bronze

silver

SQL script 2

Run

Undo

Publish

Query plan

1 SELECT TOP (100) [user\_id]

2 ,[username]

3 ,[email]

4 ,[birthdate]

5 ,[registration\_date]

6 FROM [dbo].[gold1]

Results

Messages

View

Table

Chart

Export results

Search

user_id	username	email	birthdate	registration_date
2	JaneSmith	jane.smith@exa...	1985-08-22	2023-12-27
3	BobJohnson	bob.johnson@...	1995-02-10	2023-12-27

00:00:13 Query executed successfully.



Untitled - Power BI

File

Home

Insert

Paste

Cut

Copy

Format painter

Clipboard

Get data

Visualizations

Tables

Fields

Page 1 of 1

Navigator

Display Options

az-synapse-ak-prjct-ondemand.sql.azure...

gold1

gold2

gold3

gold4

gold4

Preview is evaluating...

Load

Transform Data

Cancel

Sign in

Share

Visualizations

Build visual

Visualizations

Fields

Values

Drill through

Cross-report

Keep all filters

Add drill-through fields here

62%



FileHomeInsertModelingViewOptimizeHelp

Paste

Cut

Copy

Format painter

Get data

Excel workbook

Data hub

SQL Server

Enter data

Dataverse

Recent sources

Transform data

Refresh data

New visual

Text box

More visuals

New measure

Quick measure

Sensitivity

Publish

ClipboardDataQueriesInsertCalculationsSensitivityShare

Share

There are pending changes in your queries that haven't been saved.

gold1

Creating connection in model...

gold2

Creating connection in model...

gold3

Creating connection in model...

gold4

Creating connection in model...

Cancel

Visualizations

Build visual

Filters

Values

Drill through

Cross-report

Keep all filters

Add drill-through fields here

Data

Search

Page 1

62%

Untitled - Power BI Desktop

Search

Sign in

FileHomeHelp

Paste

Cut

Copy

Get data

Excel workbook

Data hub

SQL Server

Enter data

Dataverse

Recent sources

Transform data

Refresh data

Manage relationships

New measure

New column

New table

Manage roles

View as

Q&A setup

Language

Linguistic schema

Sensitivity

Publish

ClipboardDataQueriesRelationshipsCalculationsSecurityQ&ASensitivityShare

Share

gold1

birthdate

email

registration\_date

Σ user\_id

username

Collapse

gold2

birthdate

email

registration\_date

Σ user\_id

username

Collapse

Properties

Cards

Show the database in the header when applicable

No

Show related fields when card is collapsed

Σ Yes

Pin related fields to top of card

No

Data

Search

gold1

gold2

gold3

gold4

All tables

100%







FileHomeInsertModelingViewOptimizeHelpFormatData / Drill

Clipboard

Count of user\_id

Count of username by birthdate

Page 1

Page 1 of 1

Search

Sign in

Share

Microsoft Integration Runtime Configuration Manager

HomeSettingsDiagnosticsUpdateHelp

Self-hosted node is connected to the cloud service

Data Factory:az-data-factory-prjct

Integration Runtime:integrationRuntime1

Node:LAPTOP-B21O8BHK

Stop Service

Data Source Credential ⓘ

Credential store:On-premises

Credential status:In sync

Last backup time:N/A

Generate BackupImport Backup

Connected to the cloud service (Data Factory V2)

Data

gold1

birthdate

email

registration\_date

user\_id

username

gold2

birthdate

email

email Hierarchy

registration\_date

user\_id

username

gold3

gold4





users **courses** X

The screenshot shows the Google Sheets toolbar. The 'Limit to 1000 rows' dropdown menu is open, displaying the text 'Limit to 1000 rows' and a downward arrow. Other icons in the toolbar include a folder, a floppy disk, a lightning bolt, a magnifying glass, a hand, a red circle with a white 'X', a checkmark, a close button, a blue square with a white 'X', a star, a bell, a search icon, and a refresh icon.

```
1 • SELECT * FROM azuredataprg.courses;
```

Result Grid   Filter Rows:    Export/Import:   Wrap Cell Content: 

[illegible]

Columns:	
<u>user_id</u>	int AI F
username	varchar
email	varchar
birthdate	date
registration_date	timestamp

### Output

Revert



Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help



Navigator

SCHEMAS

Filter objects

- ▼ azuredataprj
  - ▼ Tables
    - ▶ courses
    - ▶ users
  - Views
  - Stored Procedures
  - Functions
  - ▶ classicmodels
  - ▶ sys

users x courses

Limit to 1000 rows

```
1 • INSERT INTO azuredataprj.users (user_id, username, email, birthdate, registration_date)
2   VALUES (5, 'gb', 'gb@example.com', '1991-05-15', '2022-12-27 11:39:09');
3
4
5
6 • SELECT * FROM azuredataprj.users;
7
```

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

	user_id	username	email	birthdate	registration_date
▶	1	JohnDoe	john.doe@example.com	1990-05-15	2023-12-27 12:35:07
	2	JaneSmith	jane.smith@example.com	1985-08-22	2023-12-27 12:35:07
	3	BobJohnson	bob.johnson@example.com	1995-02-10	2023-12-27 12:35:07
	4	ankit	ankit@example.com	1990-05-15	2023-12-27 12:35:07
*	NULL	NULL	NULL	NULL	NULL

users 4 x

Apply

Revert

Administration Schemas

Information

Table: users

Columns:

user_id	int AI P
username	varchar
email	varchar
birthdate	date
registration_date	timestamp

Object Info

Session

Output

Result Grid

Form Editor

Field Types