



# 14 DAYS

## AI CHALLENGE

### DAY 08

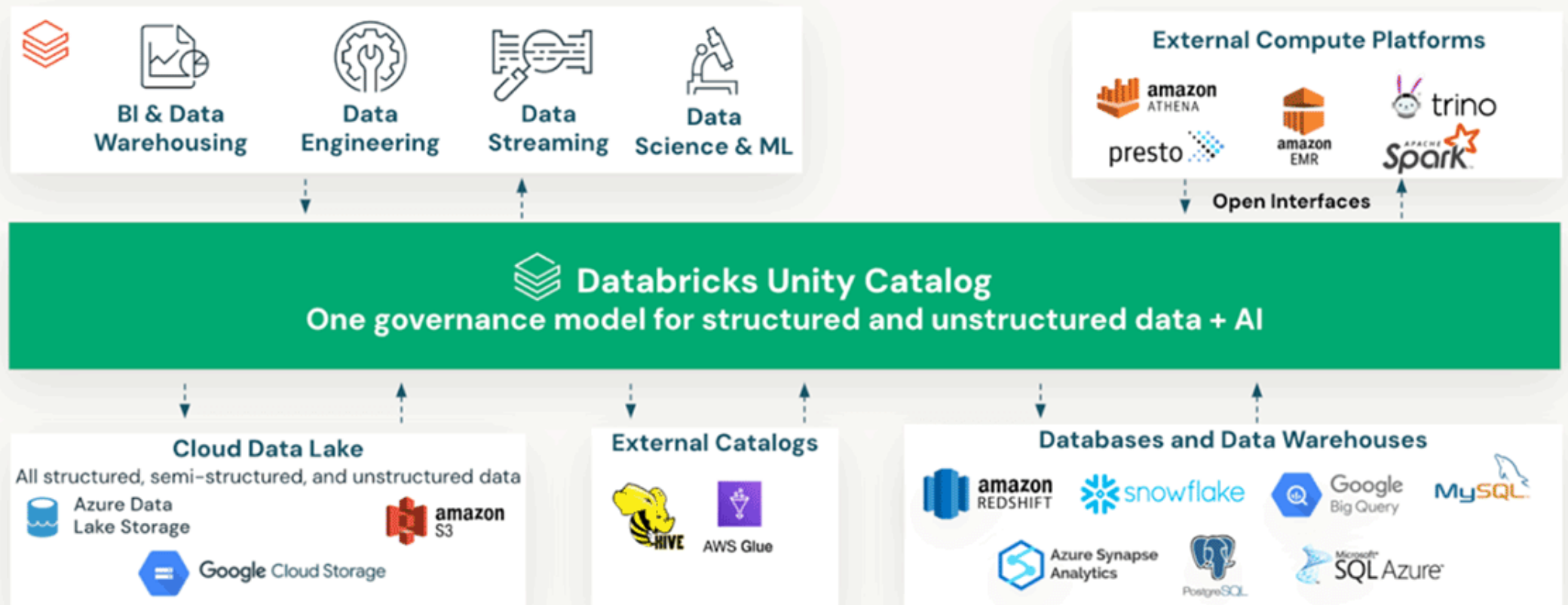
#### Topic:

Unity Catalog Governance

#### Challenge:

1. Create catalog & schemas
2. Register Delta tables
3. Set up permissions
4. Create views for controlled access

# Databricks Unifies Data and AI Governance



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## Catalog & Schema Setup

```
%sql
-- Create catalog & schemas
CREATE CATALOG ecommerce;

-- Use the catalog
USE CATALOG ecommerce;

CREATE SCHEMA bronze;
CREATE SCHEMA silver;
CREATE SCHEMA gold;
```

See performance (5)

OK

This result is stored as `_sqlidf` and can be used in other Python and SQL cells.

+ Code + Text Assistant

## Register Delta Tables

\*\*Created managed Delta tables

Registered tables in each layer:

bronze.events silver.events gold.products\*\*

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11:37 AM (2s)

5

SELECT \* FROM bronze.events;

SELECT \* FROM silver.events;

SELECT \* FROM gold.products;

See performance (1)

Optimize

Table

+

|   | product_name | revenue | conversion_rate | purchases |
|---|--------------|---------|-----------------|-----------|
| 1 | Product A    | 12000   | 0.12            | 25        |
| 2 | Product B    | 8000    | 0.09            | 8         |

2 rows | 2.38s runtime

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Access Control (GRANT)

11:37 AM (1s)

7

SQL

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⋮

%sql

SHOW GRANTS ON TABLE gold.products;

See performance (1)

Optimize

Table

+

| Principal | ActionType | ObjectType | ObjectKey |
|-----------|------------|------------|-----------|
|-----------|------------|------------|-----------|

## Controlled Access Using Views

| Table |              |         |                 |
|-------|--------------|---------|-----------------|
|       | product_name | revenue | conversion_rate |
| 1     | Product A    | 12000   | 0.12            |



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1 row | 1.46s runtime

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11:37 AM (1s)

11

%sql

GRANT SELECT ON VIEW gold.top\_products TO 'account users';

See performance (1)

Optimize

OK

This result is stored as `_sqldf` and can be used in other Python and SQL cells.

11:38 AM (1s)

12

SQL

%sql

SHOW GRANTS ON VIEW gold.top\_products;

See performance (1)

Optimize

\_sqldf: pyspark.sql.connect.dataframe.DataFrame = [Principal: string, ActionType: string ... 2 more fields]

Table

Principal

ActionType

ObjectType

ObjectKey

1

account users

SELECT

TABLE

ecommerce.gold.top\_products

1 row | 0.83s runtime

Refreshed 15 minutes ago

This result is stored as `_sqldf` and can be used in other Python and SQL cells.