**Coding challenge**

**Azure Databricks**

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**Batch: Data Engineering 1**

## **Question2:** Explain Overview of 3 level namespace and creating Unity Catalog objects.

* **Unity Catalog:**
  + Unity Catalog is Unified Governance Solution for Data on Databricks Lakehouse
  + Features:
    - Offers single place to administer data
    - Standard Compliance security model
    - Built in auditing and linage
    - Data Discovery
  + It provides centralized access control , linage,auditing&data discovery compatibilities across azure data brick.
  + A three-level namespace in Unity Catalogue consists of three levels of hierarchy — catalog, schema, and Table,Views,Volums,etc

DataBricks Workspace

Unity Catalog

(User management , metastore)

DataBricks Workspace

* **3 level Namespace:**

**Catalog**:

* + - A catalog is the first layer of Unity Catalog’s three-level namespace.
    - It’s used to organize your data assets. Users can see all catalogs on which they have been assigned the USE CATALOG

**Schema**

* + - A schema (also called a database) is the second layer of Unity Catalog’s three-level namespace.
    - A schema organizes tables and views.
    - Users can see all schemas on which they have been assigned the USE SCHEMA permission.

**Tables:**

* + - A table resides in the third layer of Unity Catalog’s three-level namespace.
    - It contains rows of data.
    - Table are of 2 types: Managed & external table

**Volumes:**

* + - A volume resides in the third layer of Unity Catalog’s three-level namespace.
    - Volumes are similar to tables, views, etc