Coding challenge

Azure Databricks

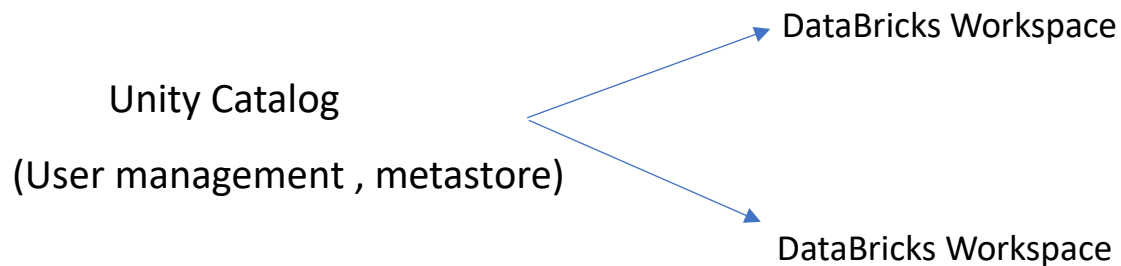**Name: Rohan Vinayak Chaudhari**   **Email:chaudharirohan24@gmail.com**

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