**ASSIGNMENT DATE-02-01-2024**

**DELTA TABLE:**

Creating a Delta table in Azure Databricks involves a few steps. Delta tables are a powerful feature in Databricks that bring ACID transactions to Apache Spark and simplify data versioning, schema evolution, and data management. Here are the steps to create a Delta table:

**Prerequisites:**

1. **Azure Databricks Workspace:** Ensure you have access to an Azure Databricks workspace.
2. **Delta Lake Library:** Delta Lake is an open-source storage layer that brings ACID transactions to Apache Spark. Make sure your Databricks environment has the Delta Lake library installed.

**Steps:**

1. **Create a Delta Table:**
   * Open a Databricks notebook.
   * Create a Delta table using the following example:

Ensure to replace the **data** with your dataset, and **delta\_table\_path** with the desired path in your storage account.

1. **Read from Delta Table:**
   * You can read data from the Delta table using the following example:
2. **Perform Transactions:**
   * Delta tables support ACID transactions. You can perform updates, deletes, and merges. Here's a simple example:
3. **Schema Evolution:**
   * Delta tables support schema evolution. If you want to add a new column to your Delta table, you can do it seamlessly:

the updated

Ensure to import the necessary functions (**lit** in this case).

These are basic examples, and you can adapt them based on your specific requirements and use cases. Delta tables in Databricks provide powerful capabilities for managing and versioning your data in a scalable and efficient manner.

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