**Case Study Assessment**

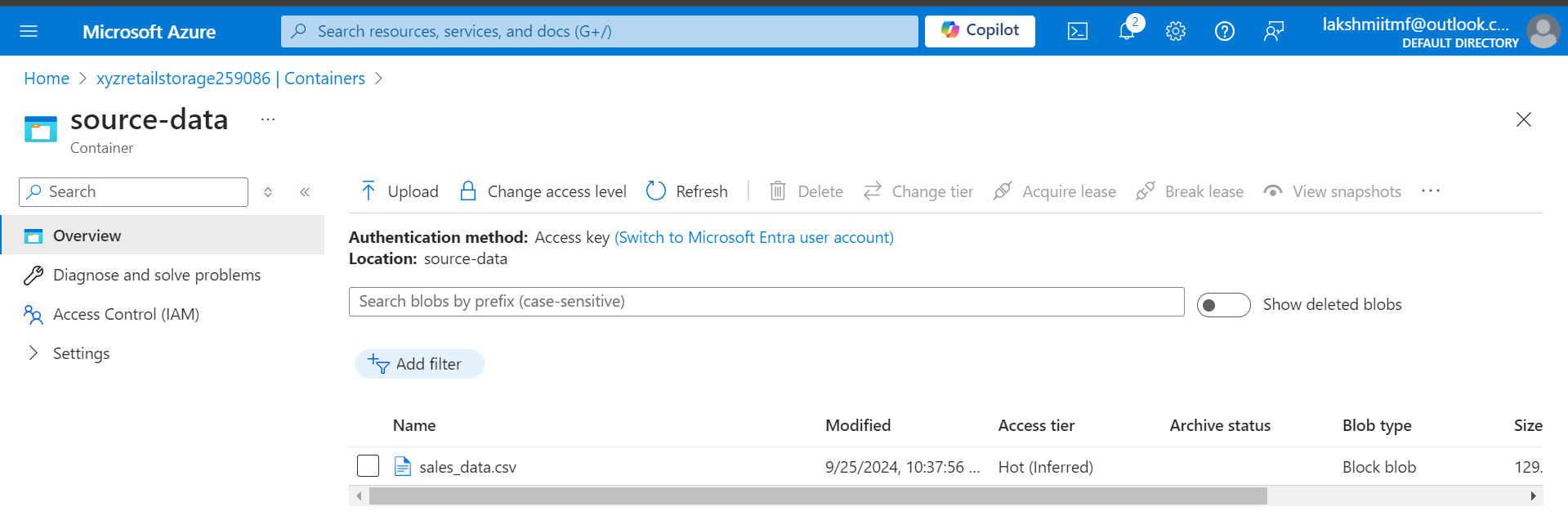
**Name:** Lakshmi Konamma M

**UID :** 259086

**Email :** [Lakshmi.KonammaM@ust.com](mailto:Lakshmi.KonammaM@ust.com)

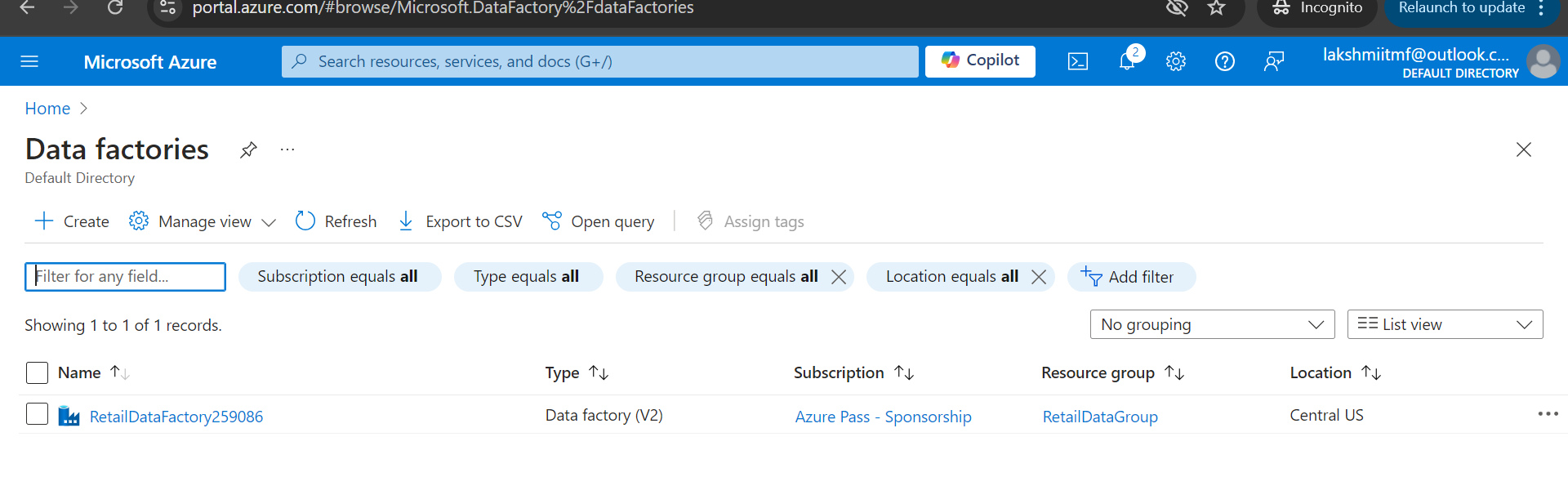
**Case Study 1: Retail Sales Data Processing (using Azure blob storage and Azure Data Factory)**

**1.Setting up Azure blob storage, created container and uploaded the CSV file.**

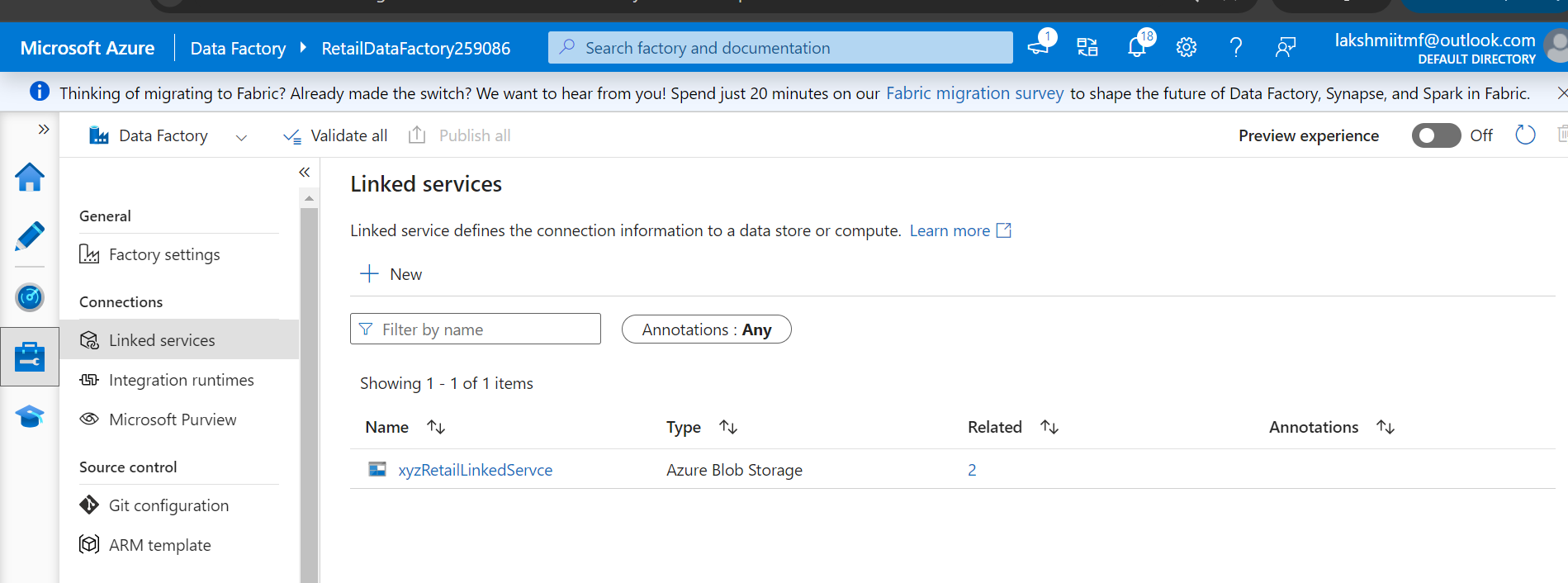


**2.Configure Azure Data Factory**

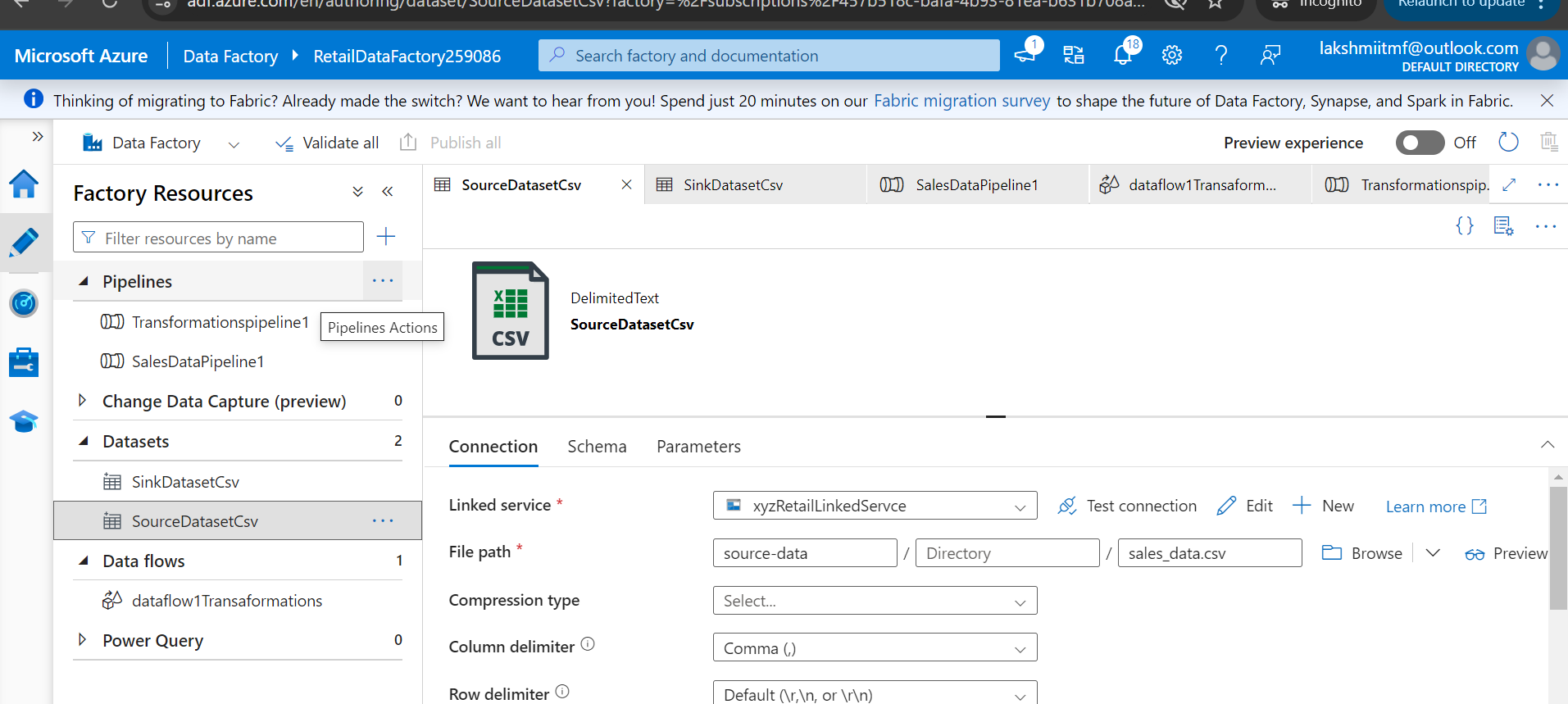
**a. Created Azure Factory**

****

**b.** **Created Link Service**

****

**c.** **Created Dataset Source and destination**

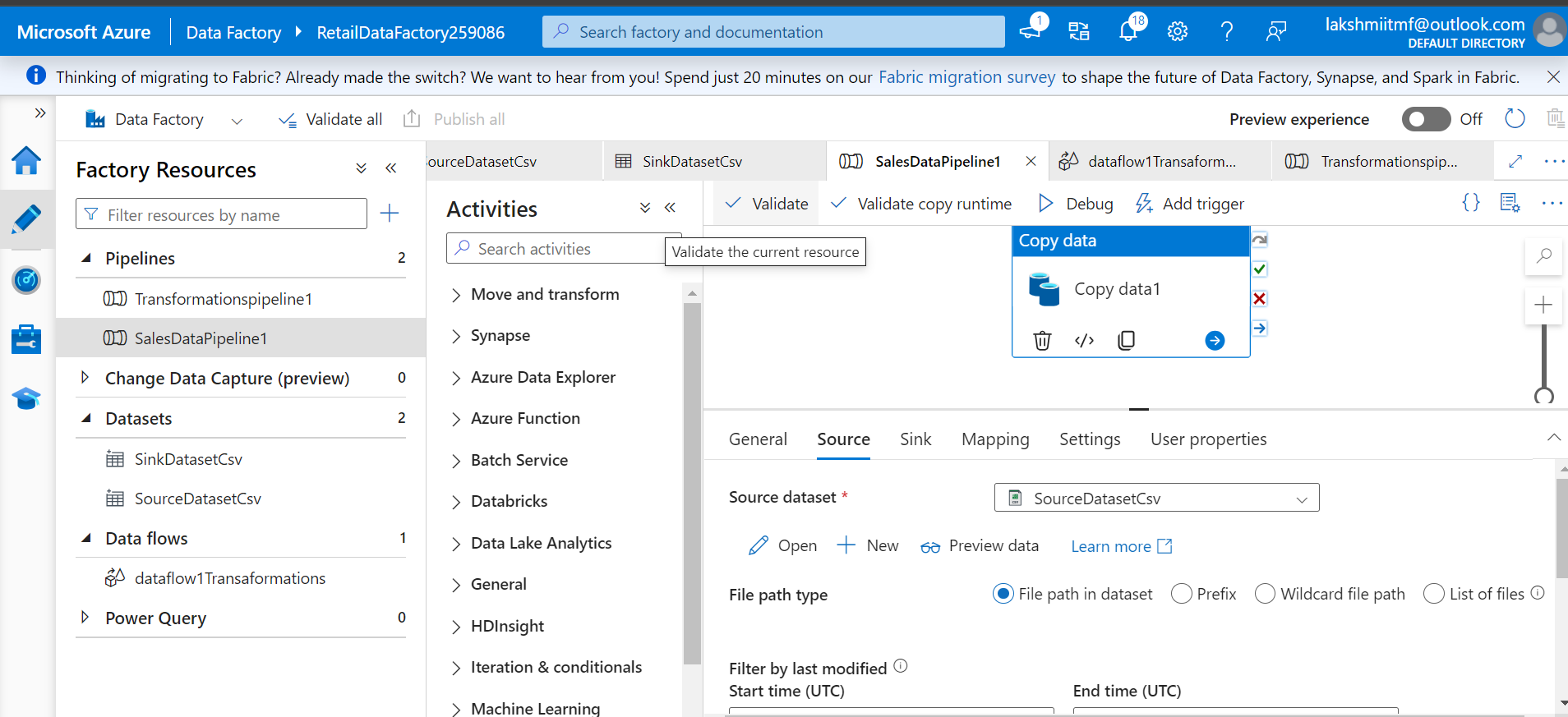
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**A screenshot of a computer

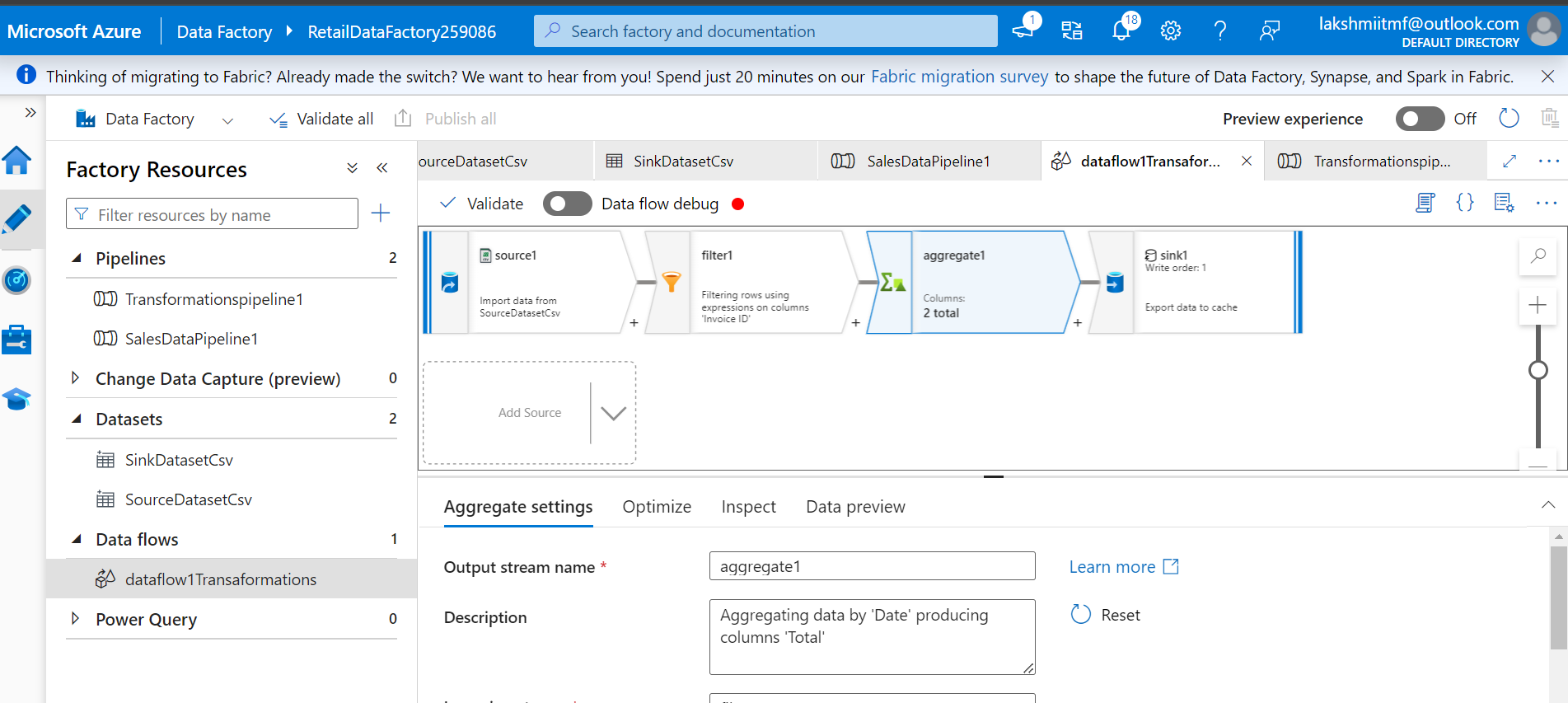
Description automatically generated**

**3.** **Build and Configure Pipeline**

**a. Created pipeline with Copy data activity select source and sink file**

****

**b. Optional Data Flow**

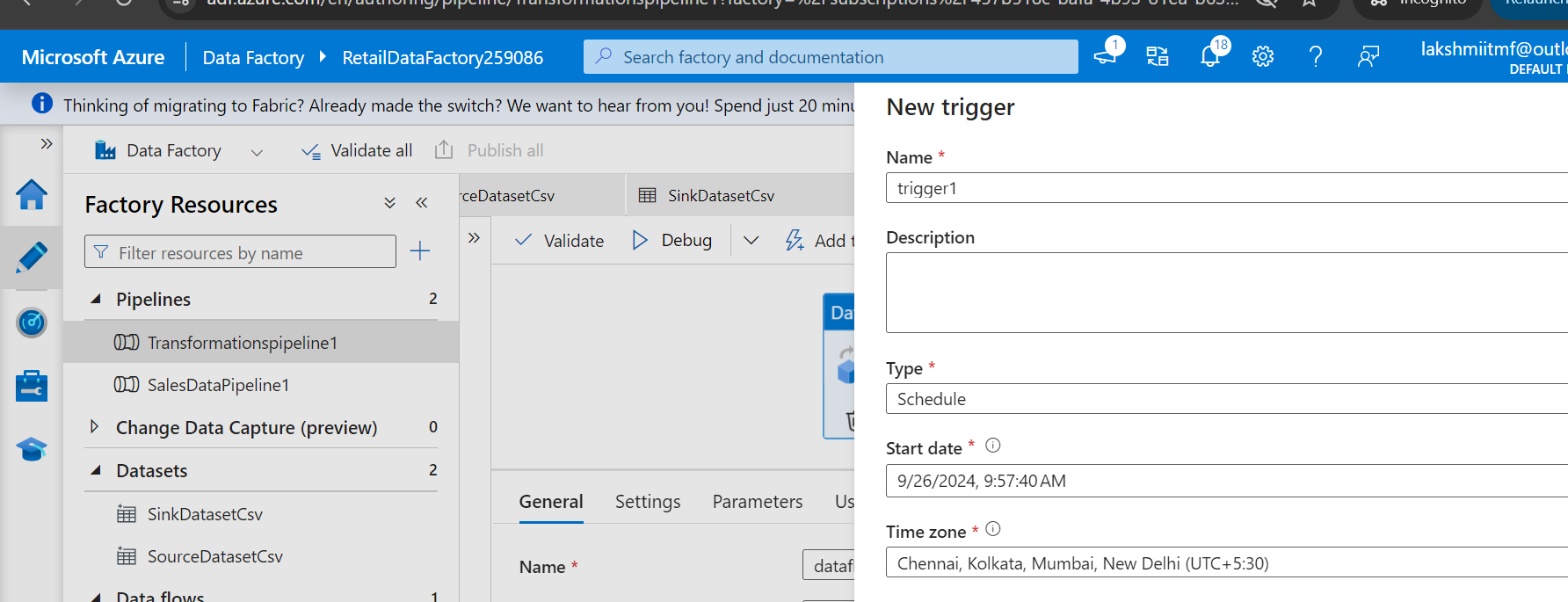
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**A computer screen shot of a computer

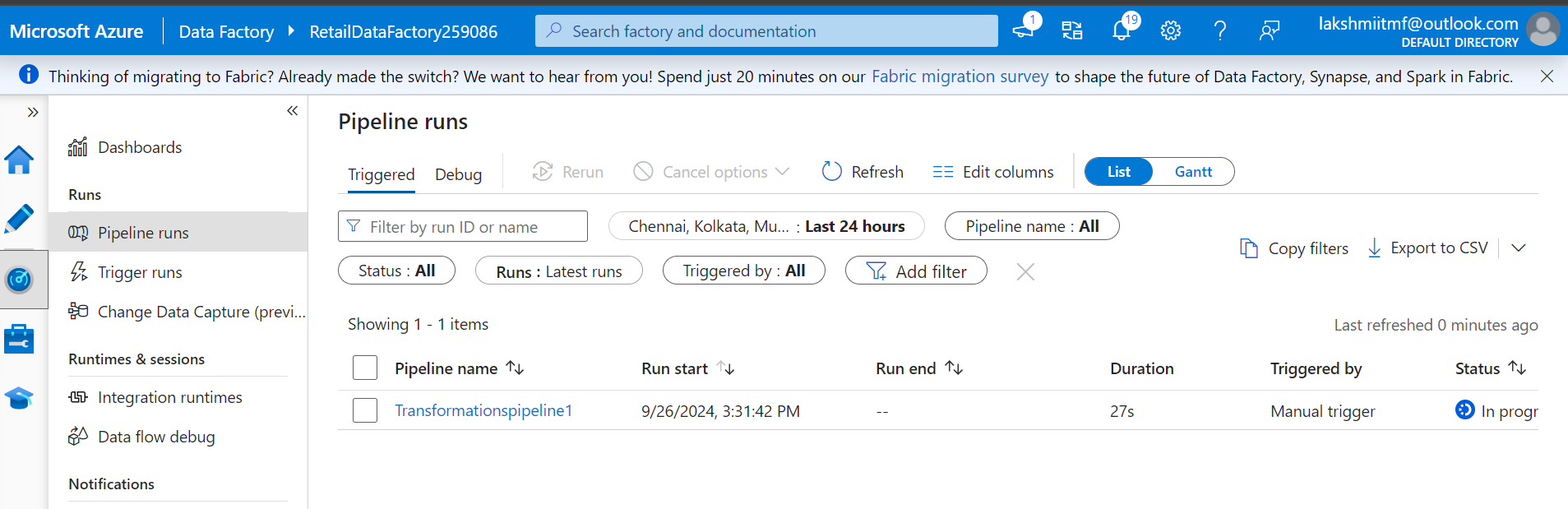
Description automatically generated**

**4. Automate and Monitor**

**a. Create Trigger:**

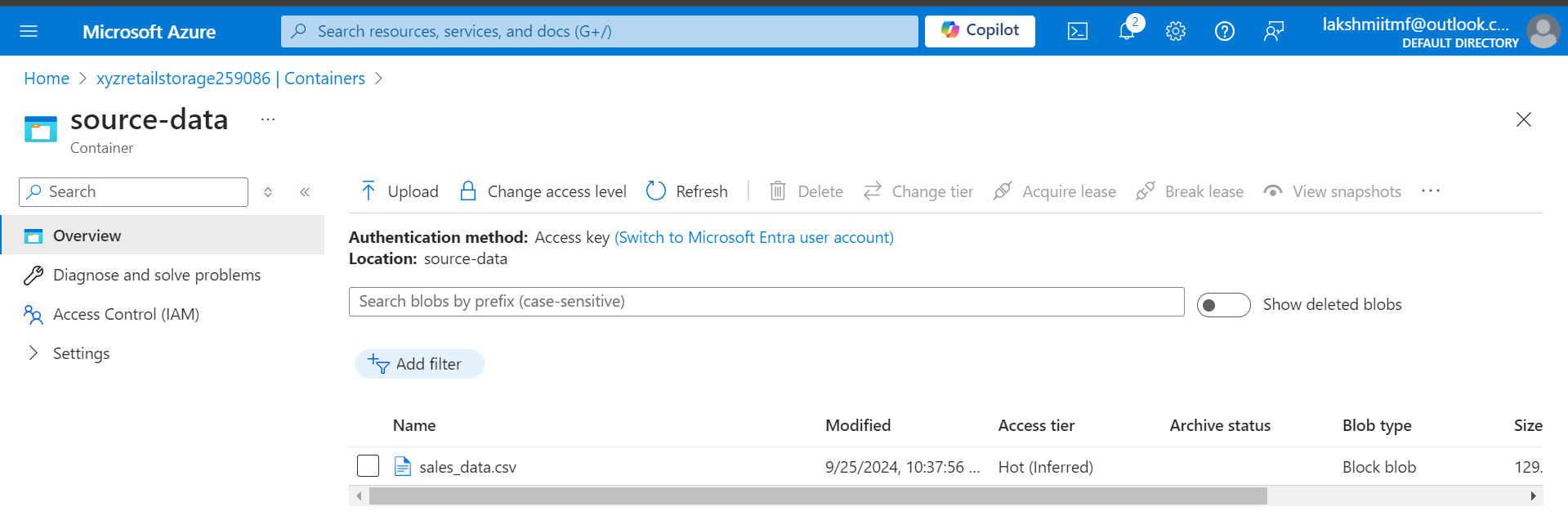
****

**b. Monitor Pipeline:**



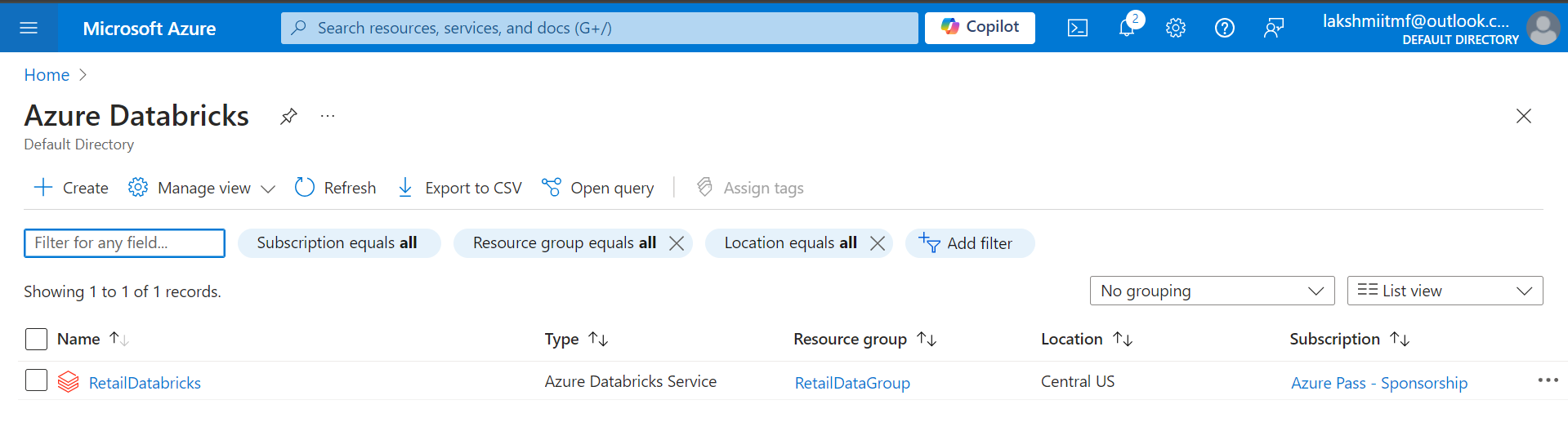
**Case Study 2: Retail Sales Data Processing (using Azure DataBricks)**

**1.Setting up Azure blob storage, created container and uploaded the CSV file.**

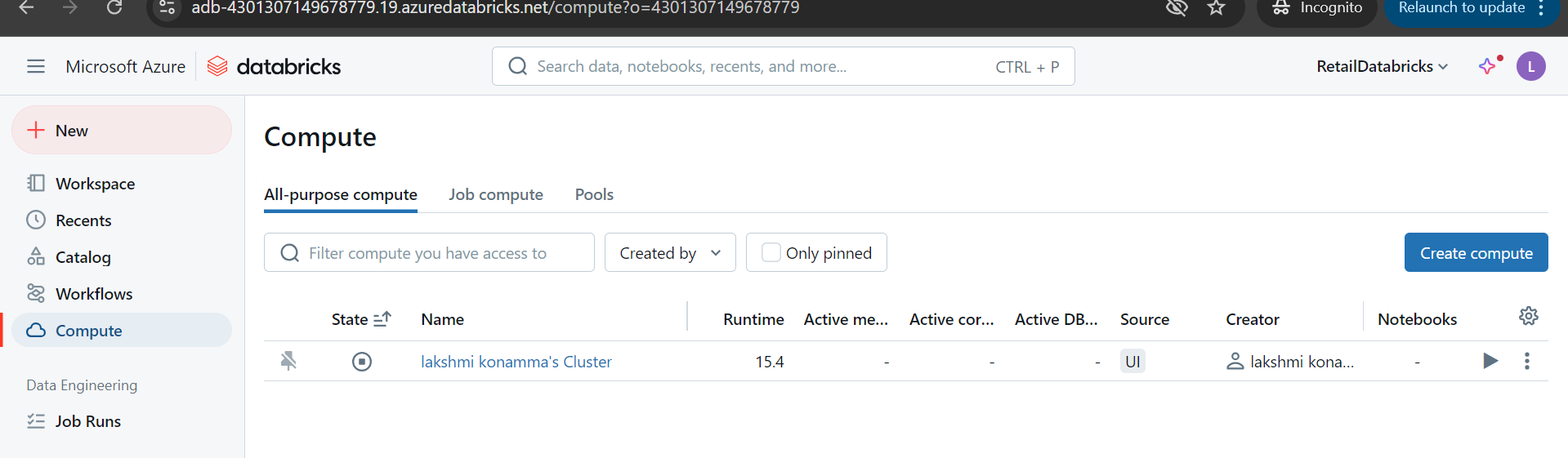


**2. Set Up Azure Databricks**

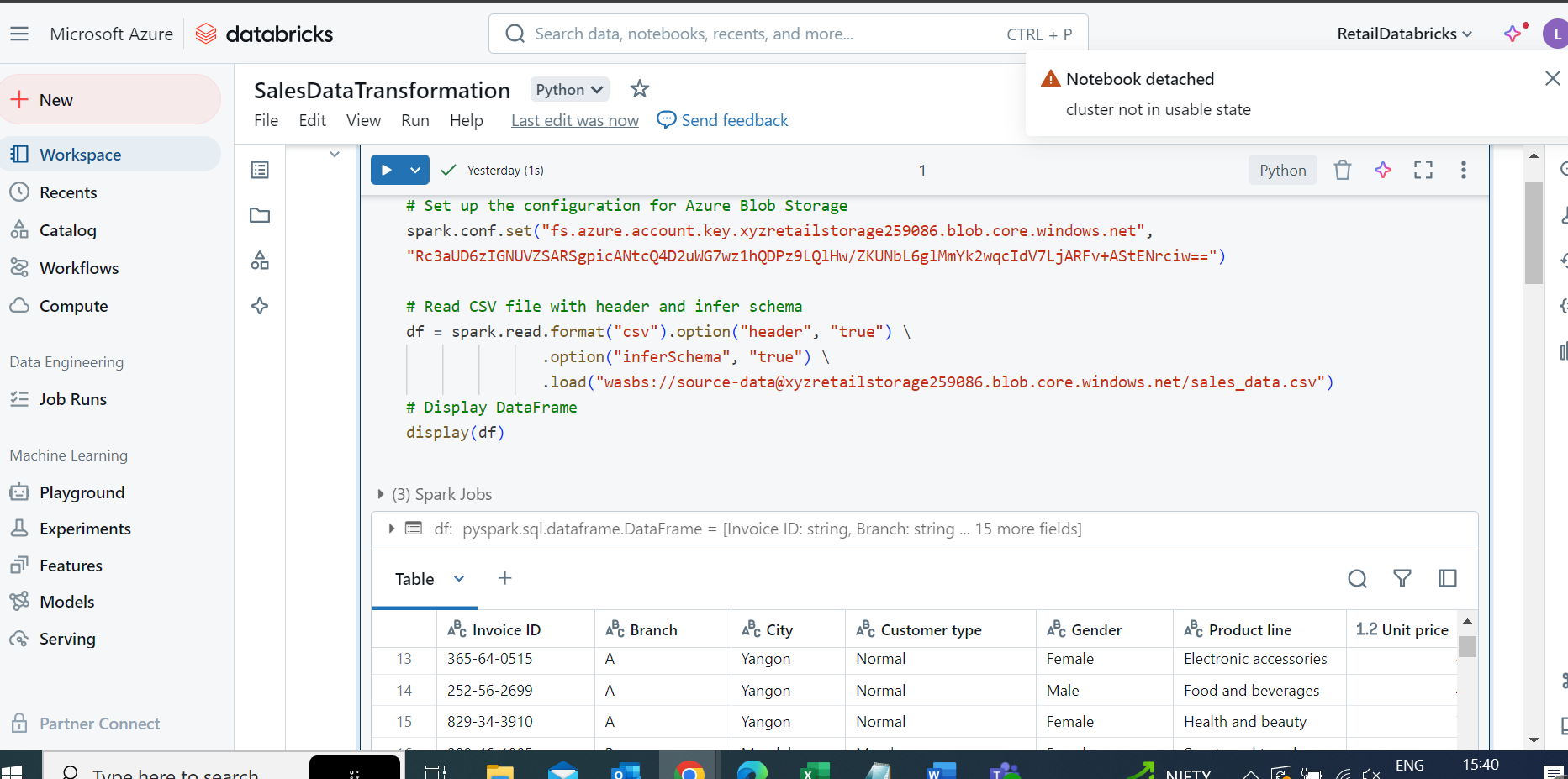
**a. Create an Azure Databricks Workspace**

****

**b.** **Creating cluster**

****

**c.** **Created Databricks notebook**

****

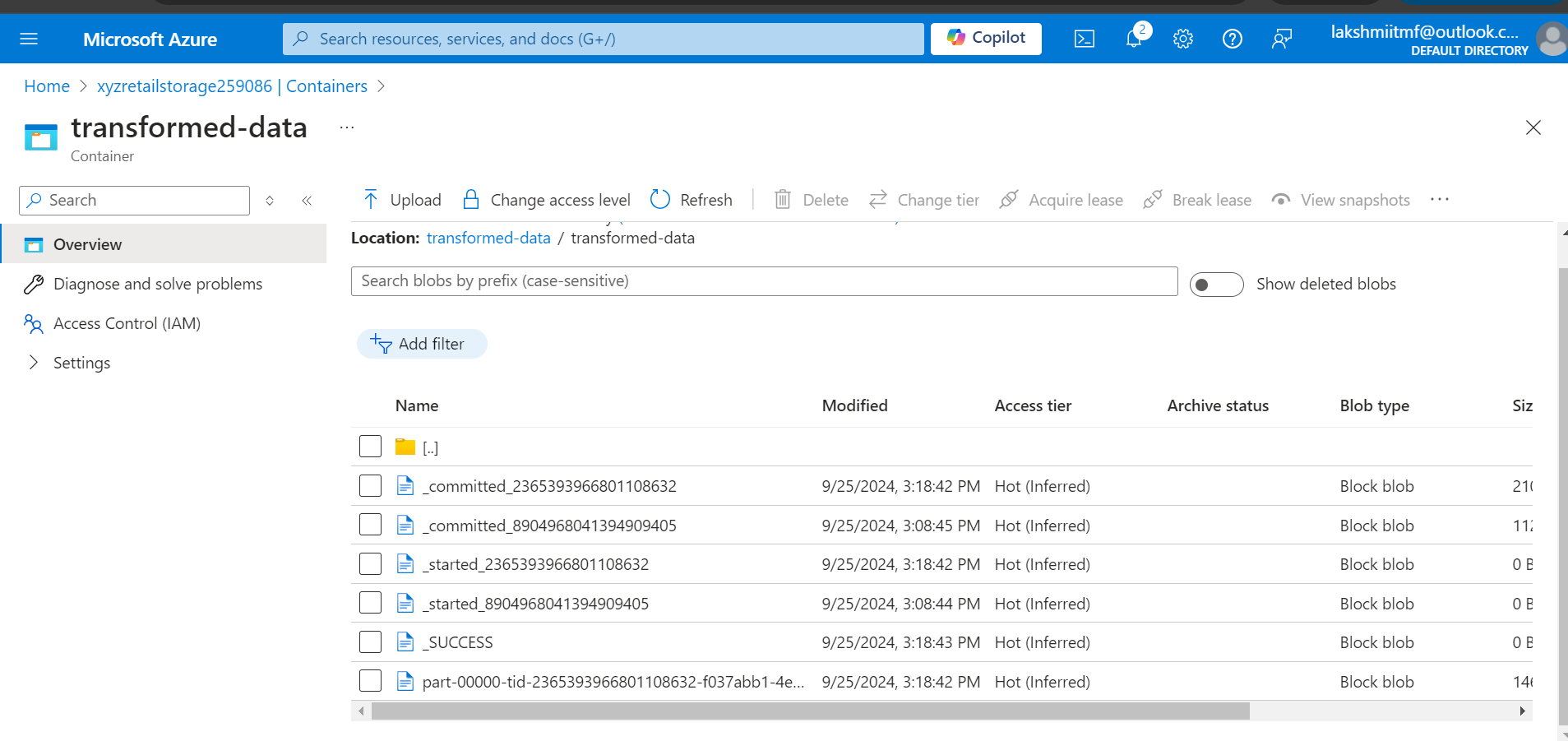
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**A screenshot of a computer

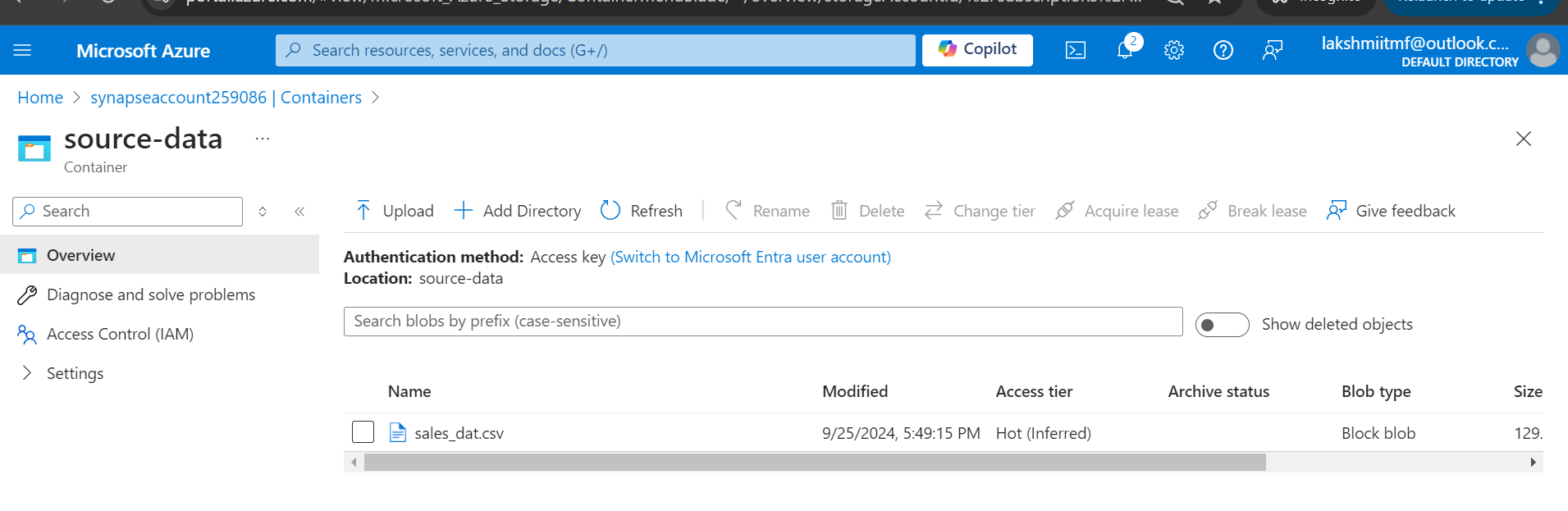
Description automatically generated**

**write the transformed data back to the transformed-data container.**

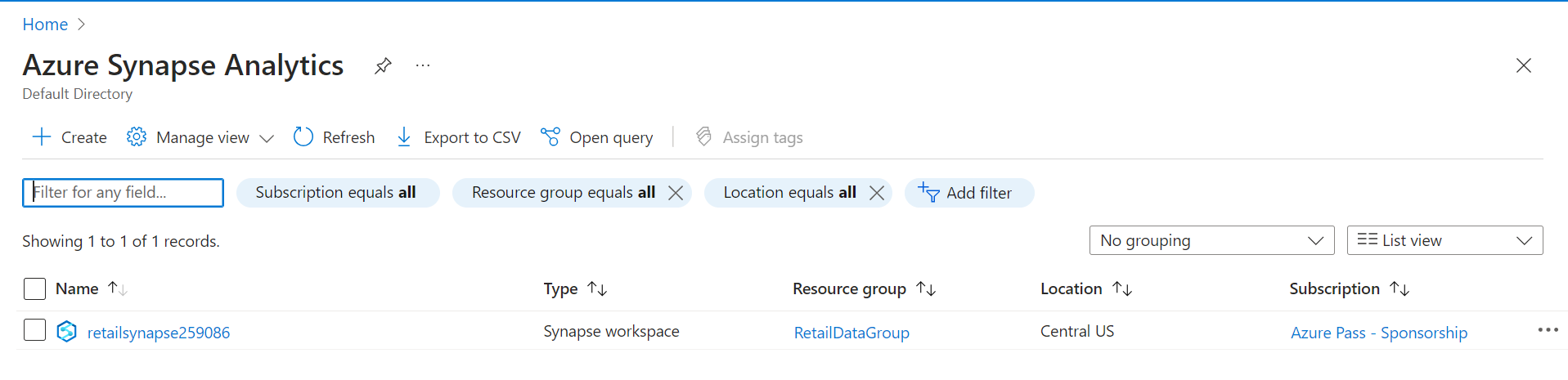
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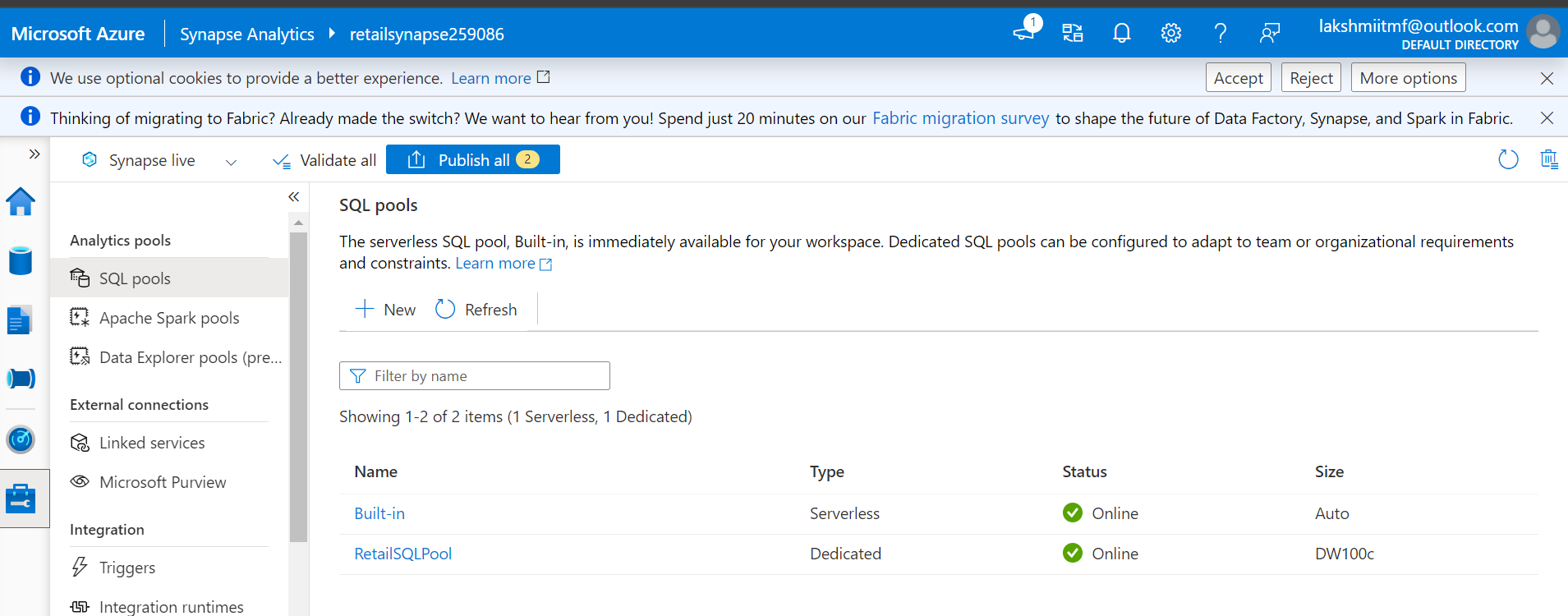
**Case Study 3 : Analyzing Retail Sales Data with Azure Synapse Analytics**

**1.Setting up Azure data lake storage, created container and uploaded the CSV file.**

****

**2.Creating Azure Synapse.**

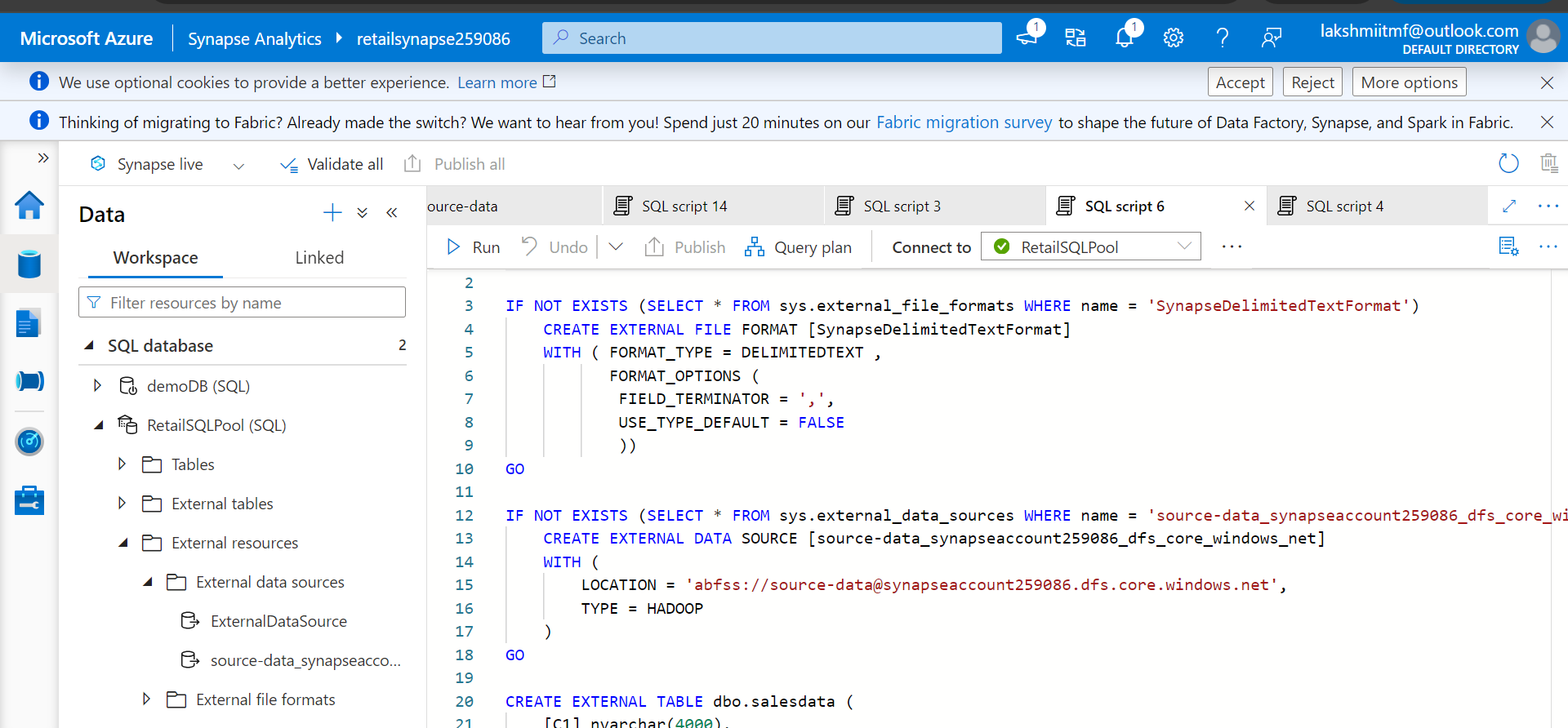
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**2.Create a Dedicated SQL Pool:**

**3. Ingest Data into Azure Synapse Analytics**

1. **Create Linked Service for Azure Blob Storage:** **A screenshot of a computer

   Description automatically generated**
2. **Create External Data Source:**



1. **Create External File Format:**

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1. **Create External Table:**

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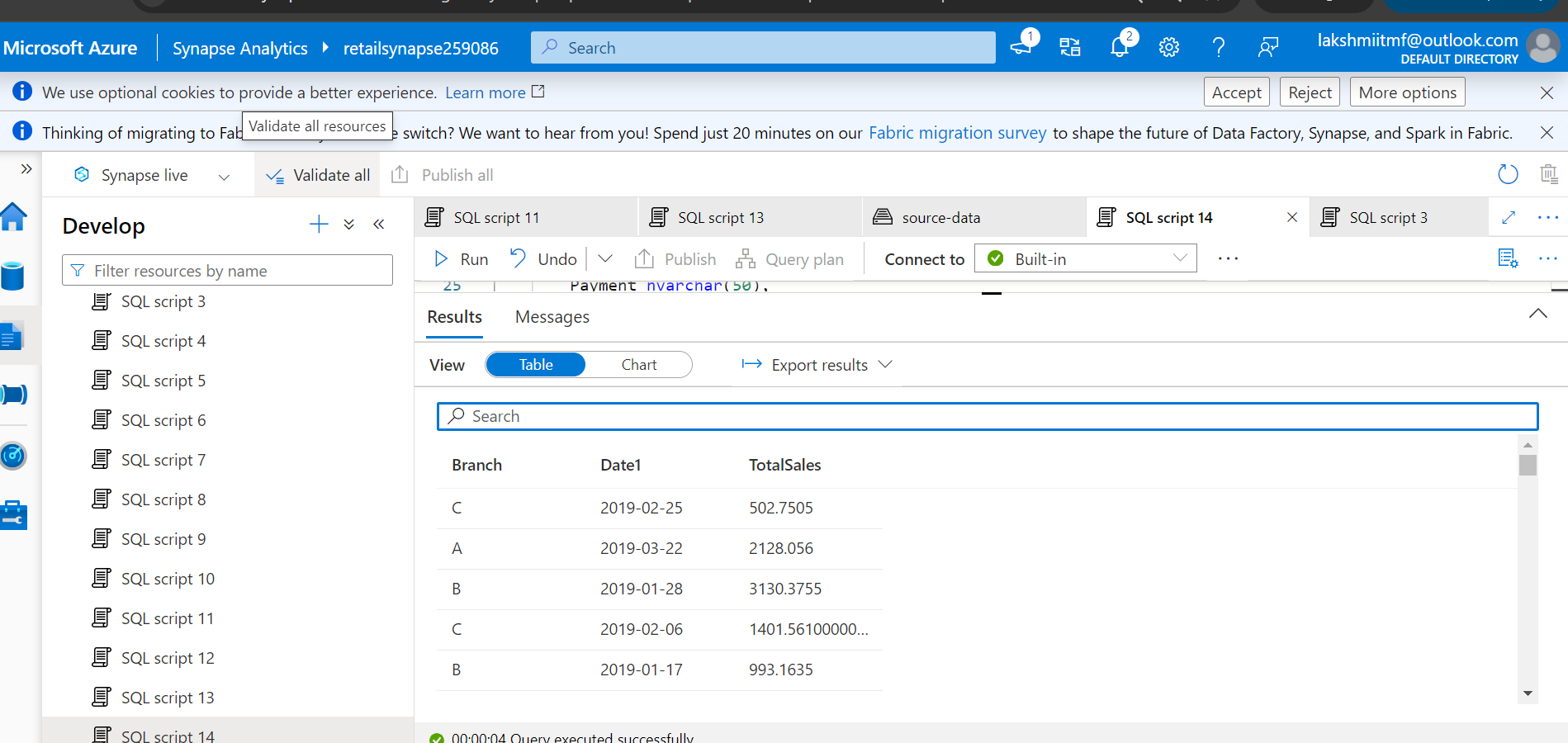
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**4. Transform and Analyze Data**

1. **Create SQL Scripts for Transformation:**
   * Write SQL queries to transform the data, such as aggregating sales by date and store.

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**\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\* THANK YOU \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***