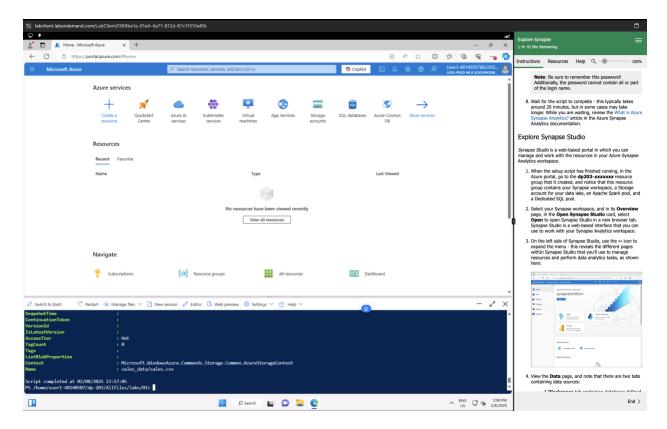
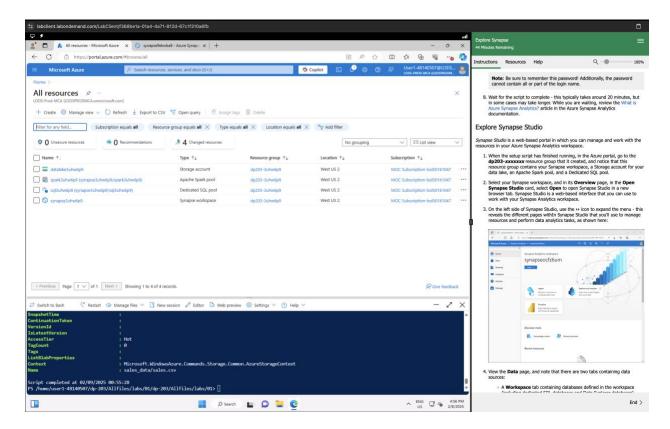
# Lab1-Explore Synapse BUAN 6390.001 – Analytics Practicum

Name: Swastik Bhatnagar

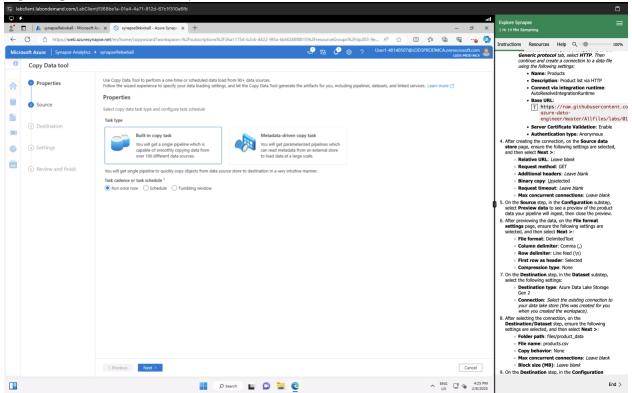
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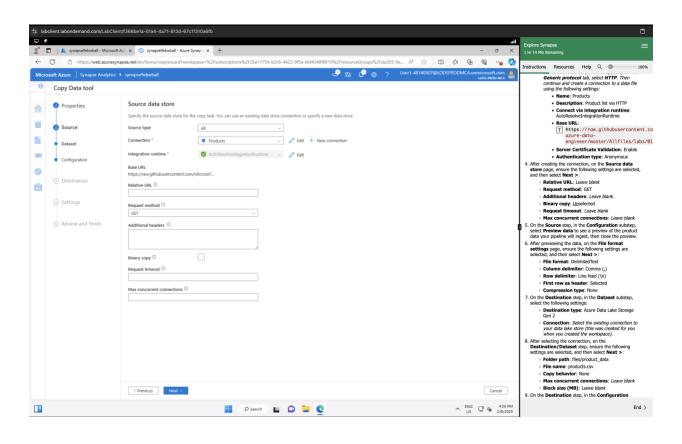
Connecting to PowerShell and Creating a resource group

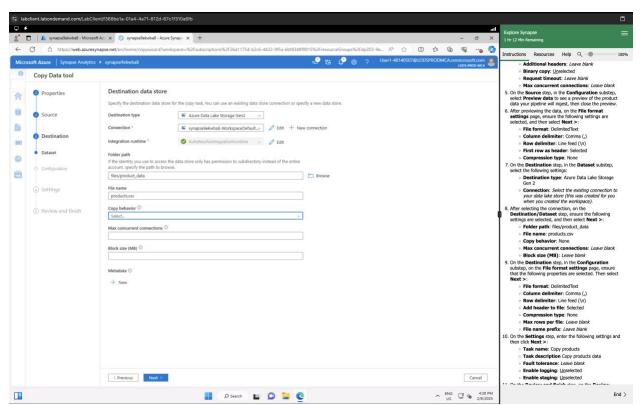


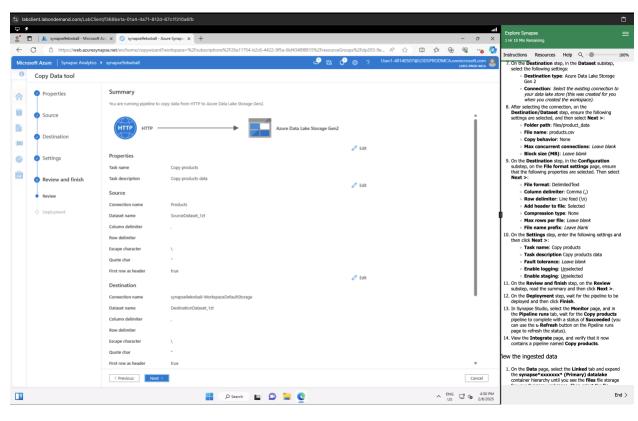


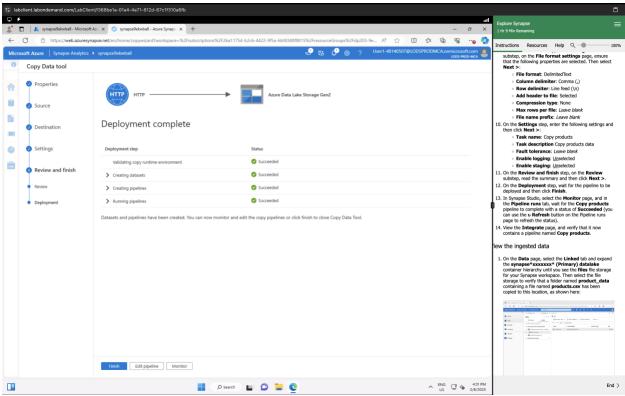
Ingesting Data in the workspace:



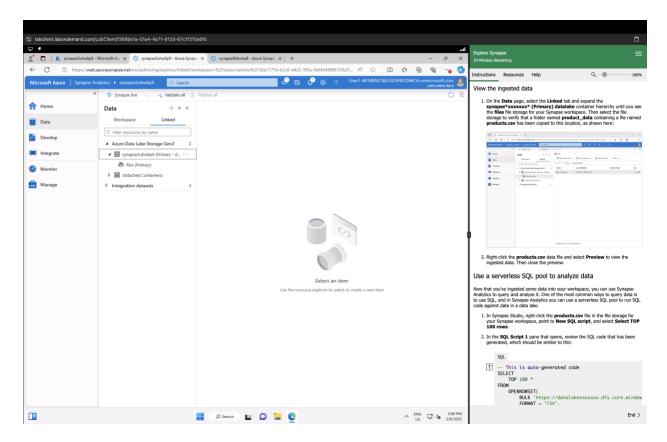


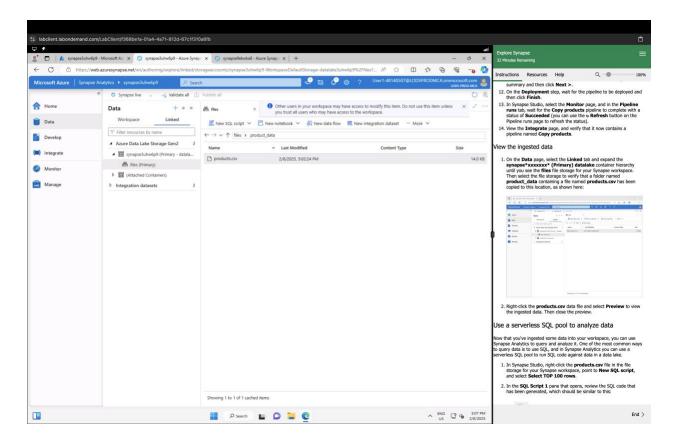




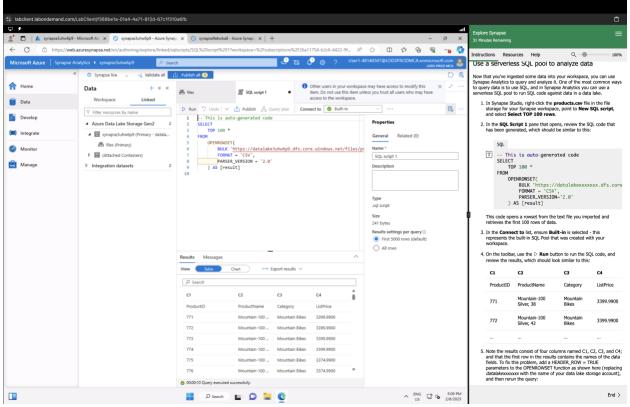


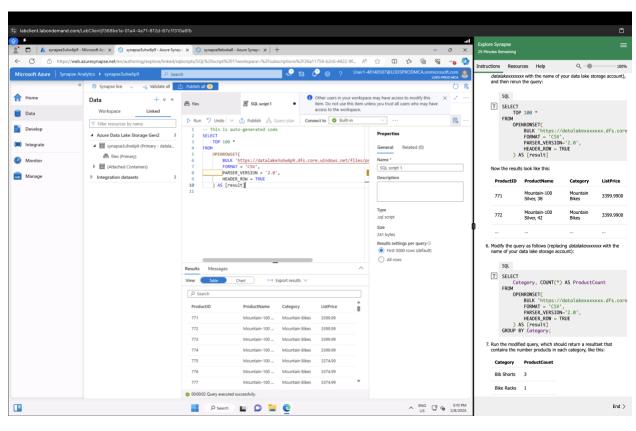
## Viewing the ingested data:

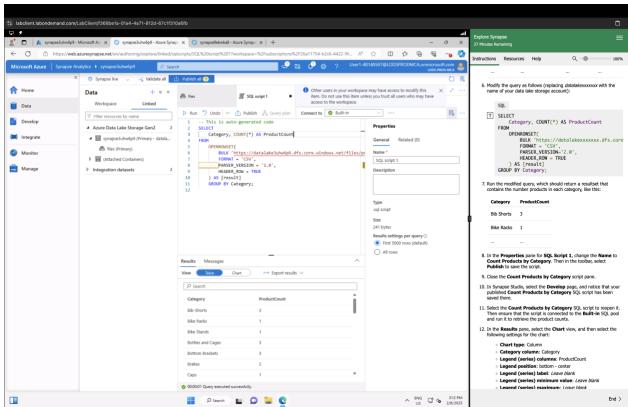




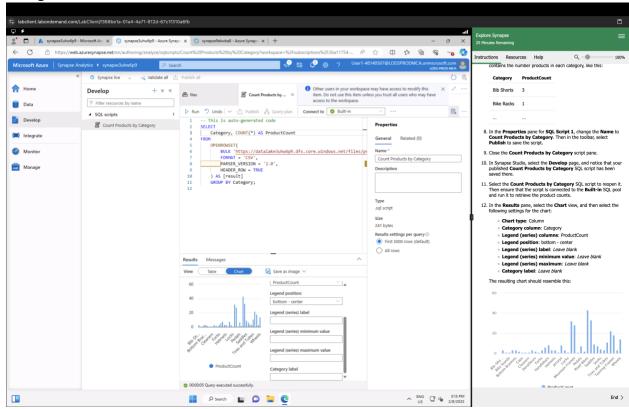
#### Querying data using SQL:



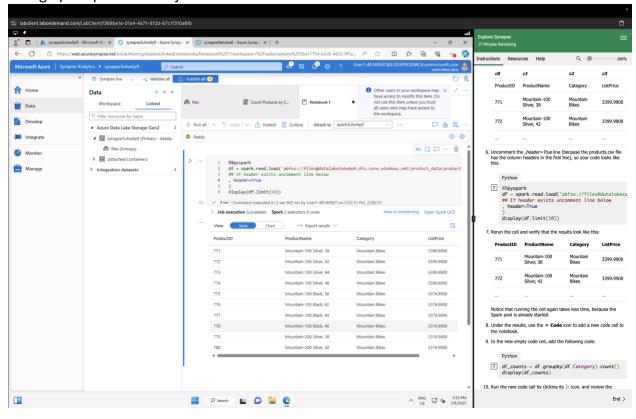




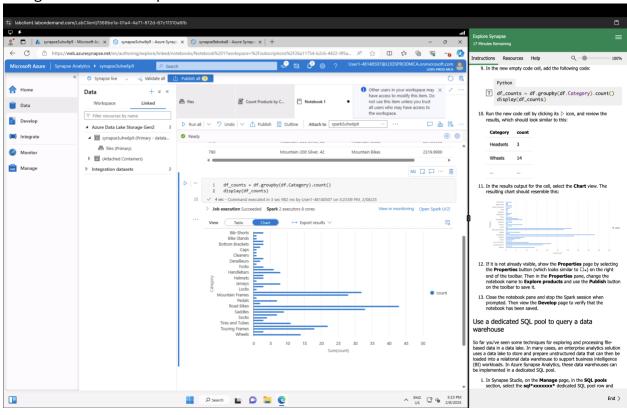
## Using the Chart view:

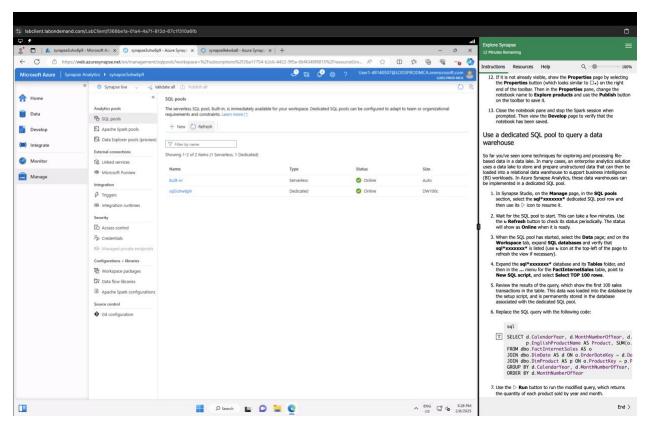


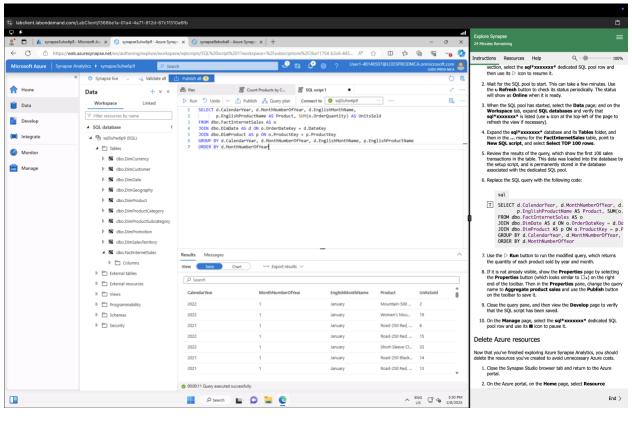
Using Spark pool to analyze data

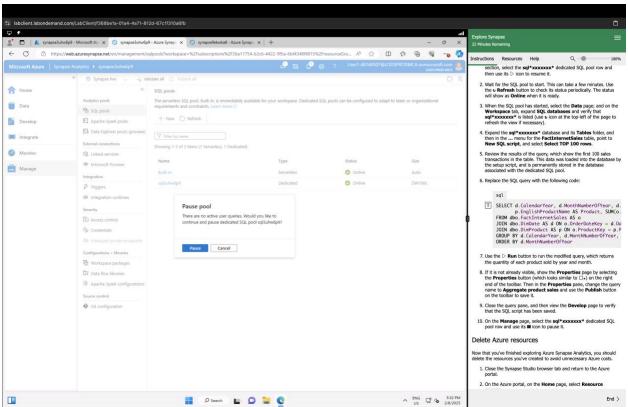


#### Using the Chart view option

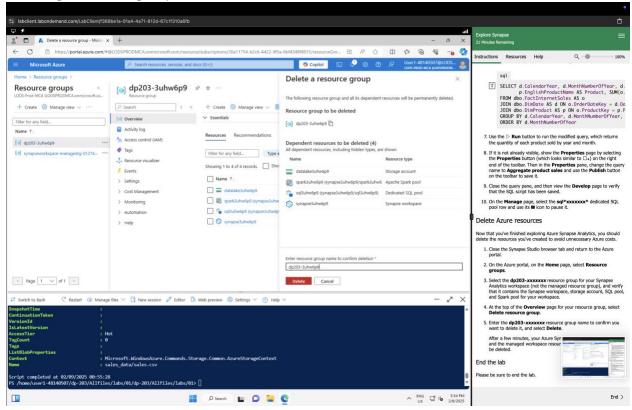








#### Deleting Resource group:



Conclusion: In this lab, I got hands-on experience with Microsoft Azure Synapse and its data analytics features. I started by connecting to PowerShell and setting up a resource group. Then, I ingested data into the Synapse workspace and explored it using SQL queries. I also used the Chart view to visualize insights and worked with Spark pools to analyze large datasets more efficiently. Finally, I wrapped up by deleting the resource group, giving me a full cycle understanding of how to manage and analyze data in Synapse. This lab provided hands-on experience with Azure Synapse's data ingestion, querying, and visualization capabilities.