**Name: 047- Sherzaman Khan**

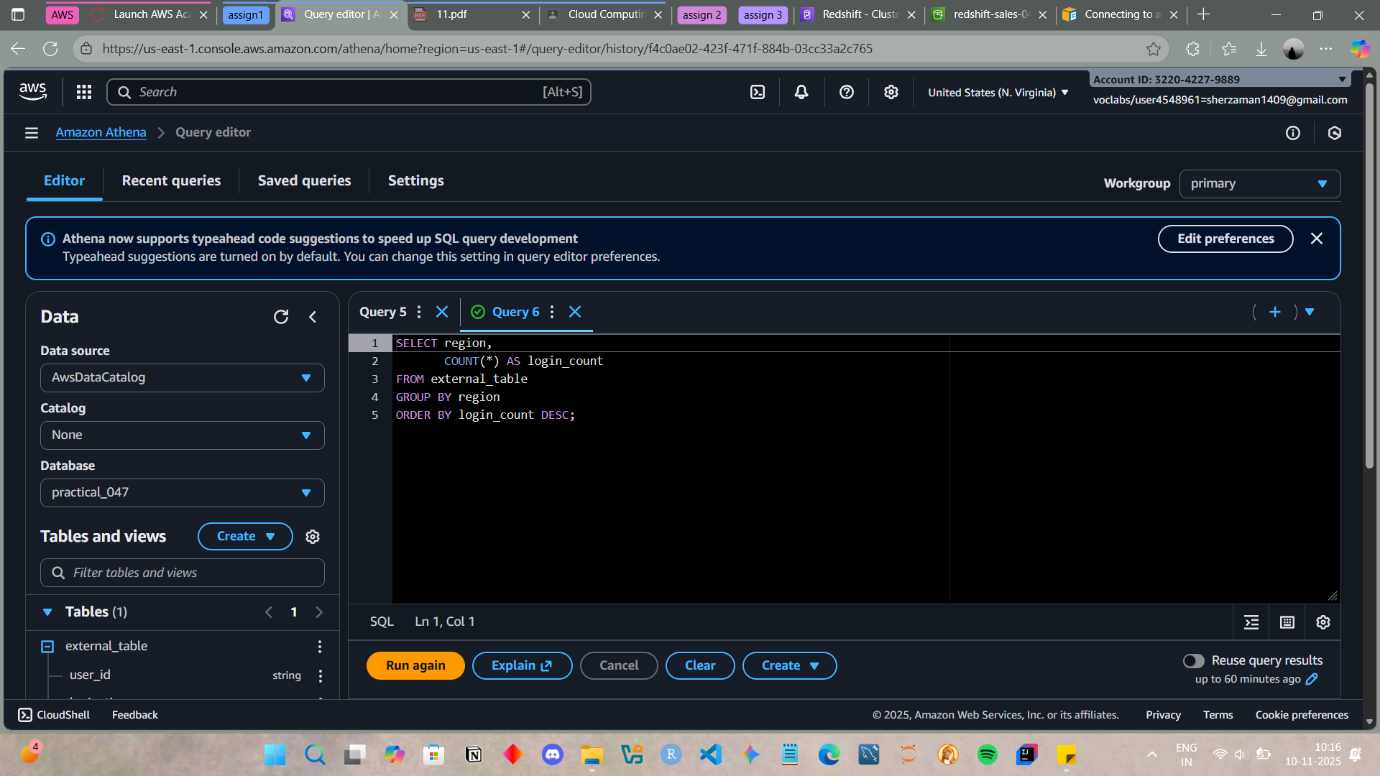
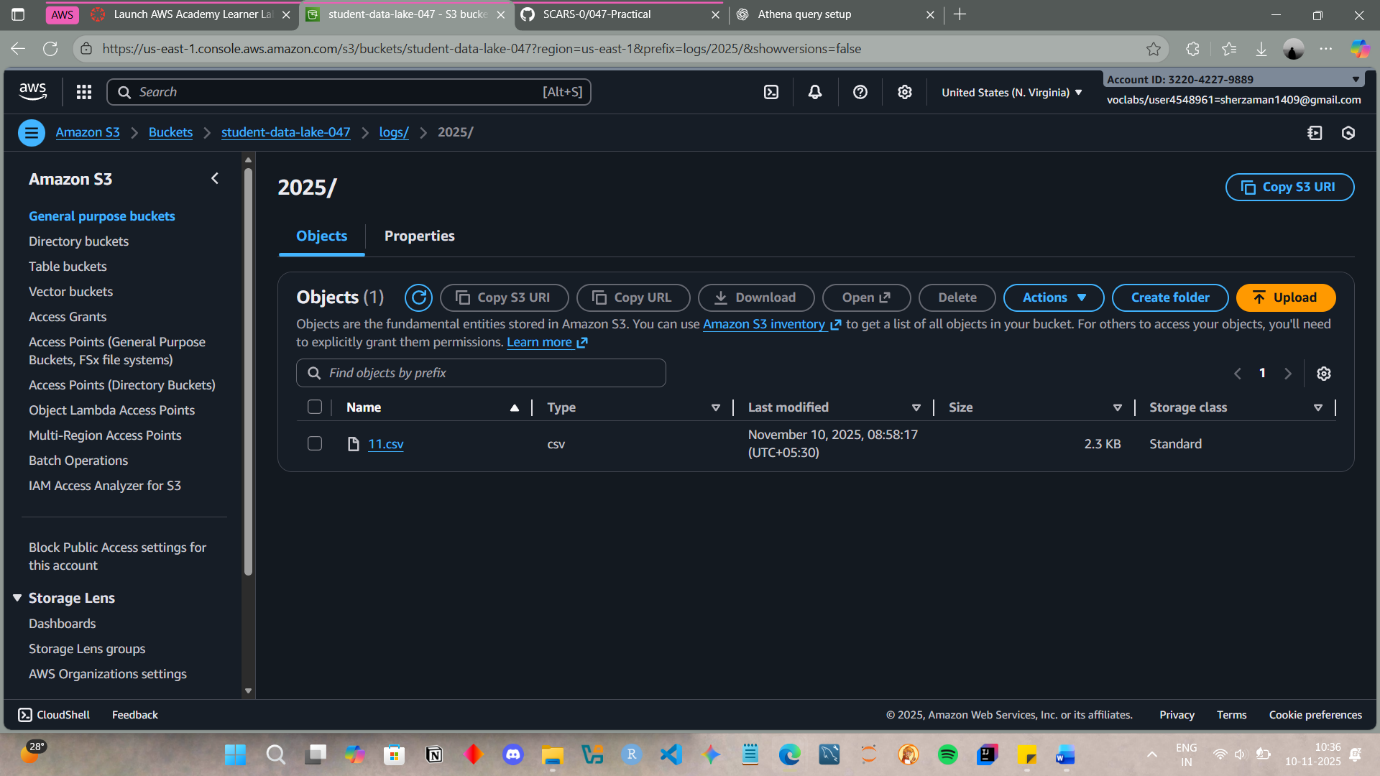
Q1. You have a s3 bucket containing multiple csv files under logs/ prefix each has user\_id, login\_time, reigon, device\_type

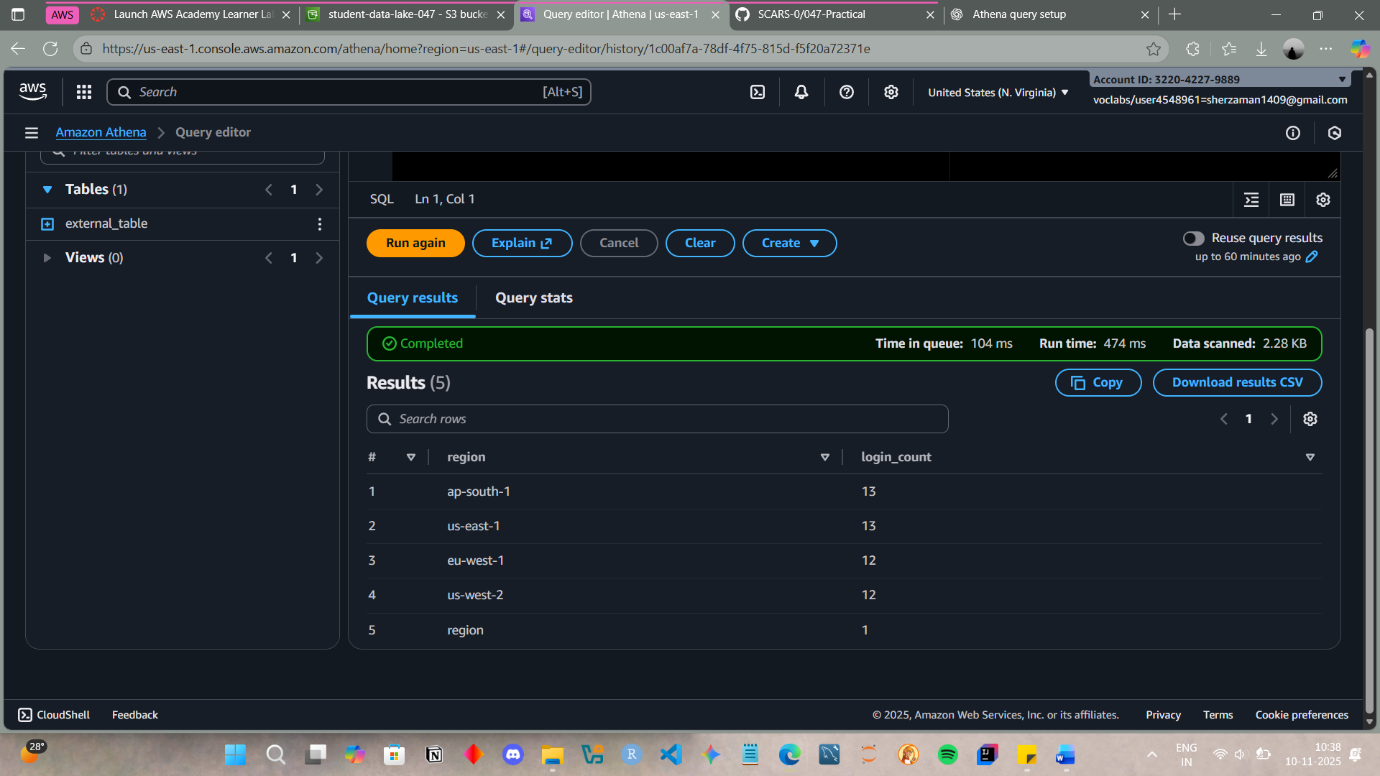
task:

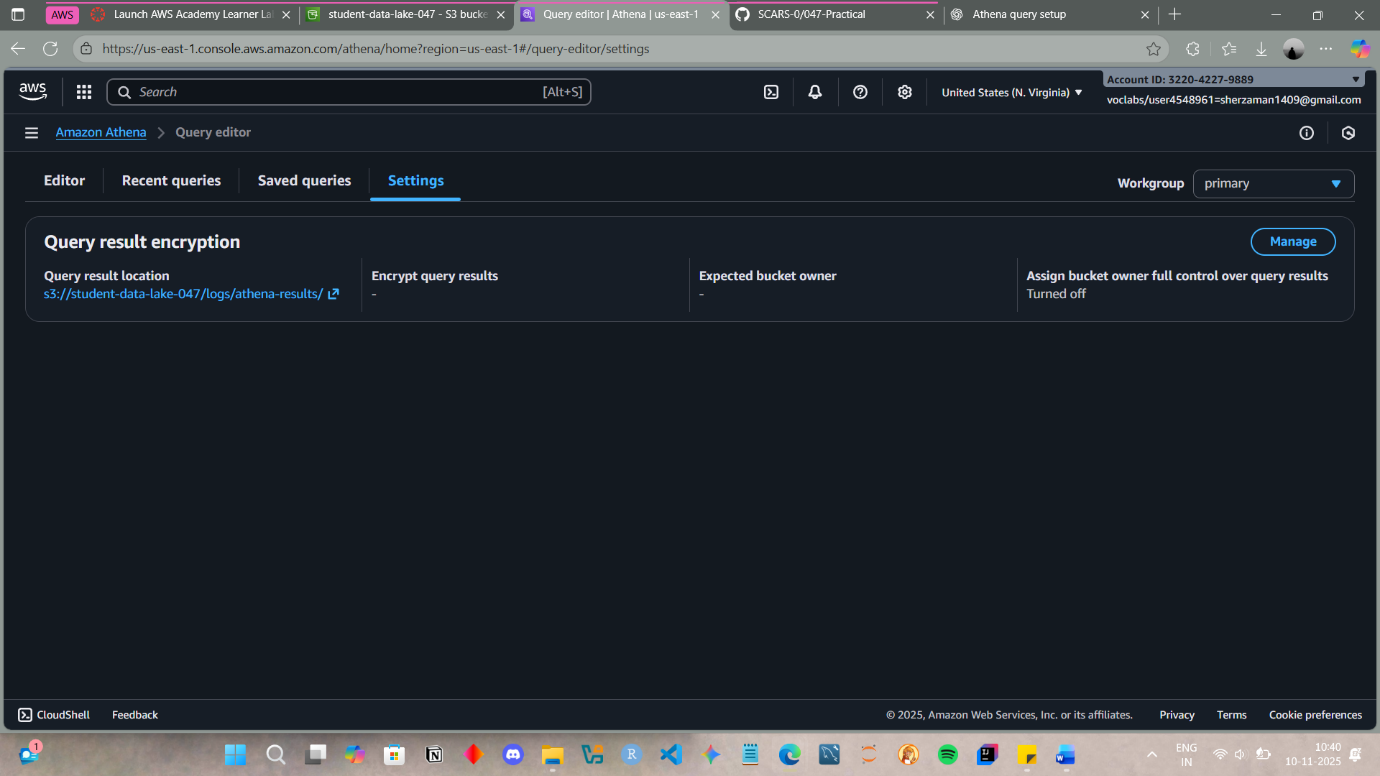
1. create athena external table to query csv file from S3

2. write query to return number of logins per region

3. save query result to s3 folder athena-result







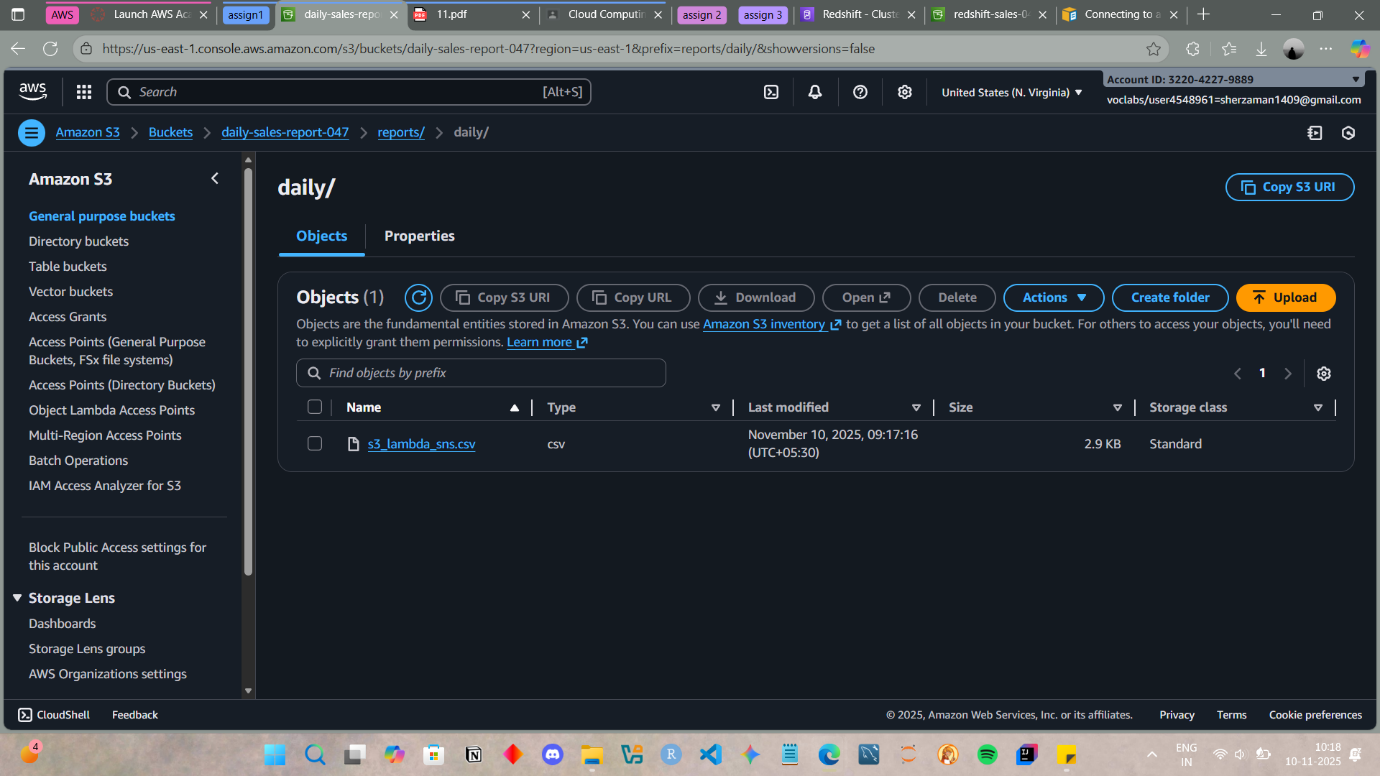
Q2. You have a s3 bucket where daily sales reports are uploaded in prefix reports/daily/ when a new file is uploaded lambda read metadeta and publishes to sns topid daily-reports-aletrs

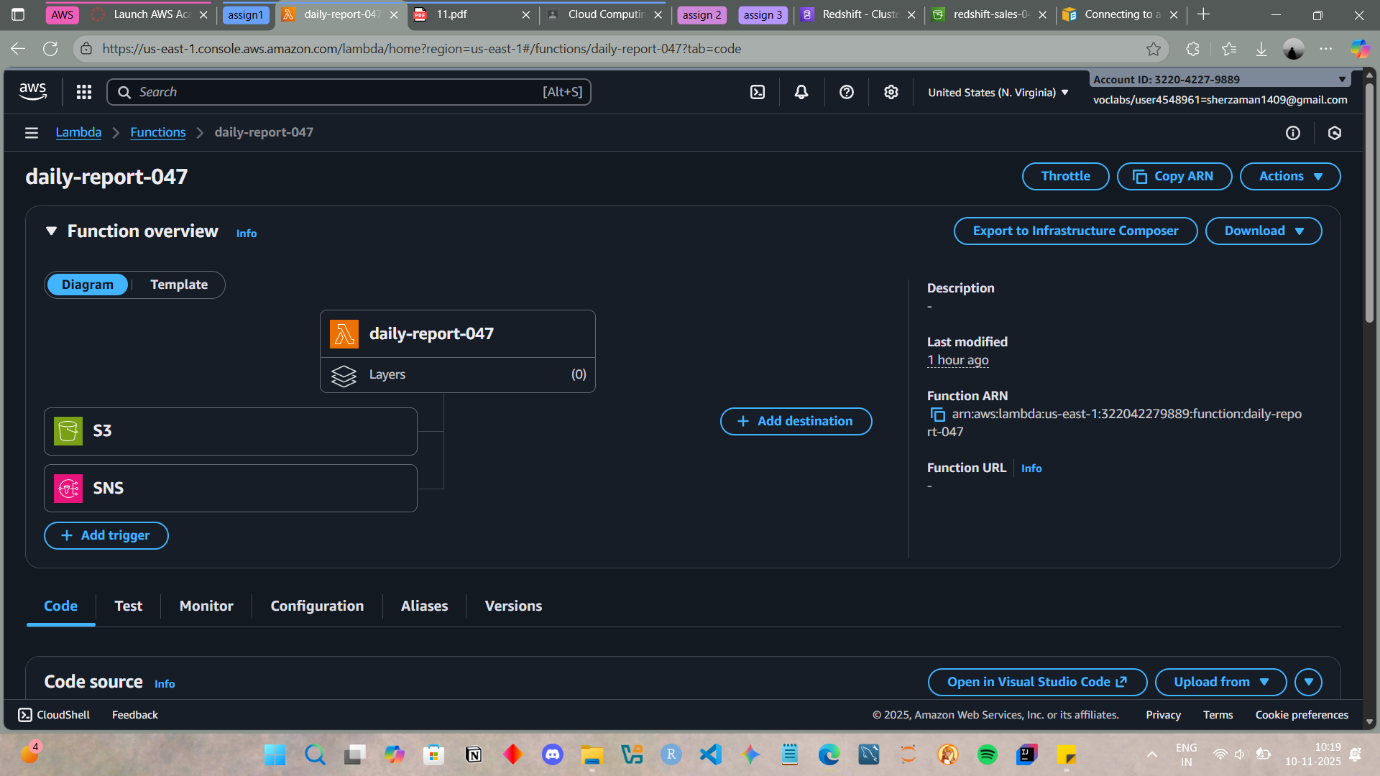
task:

1. configure S3 lambda trigger

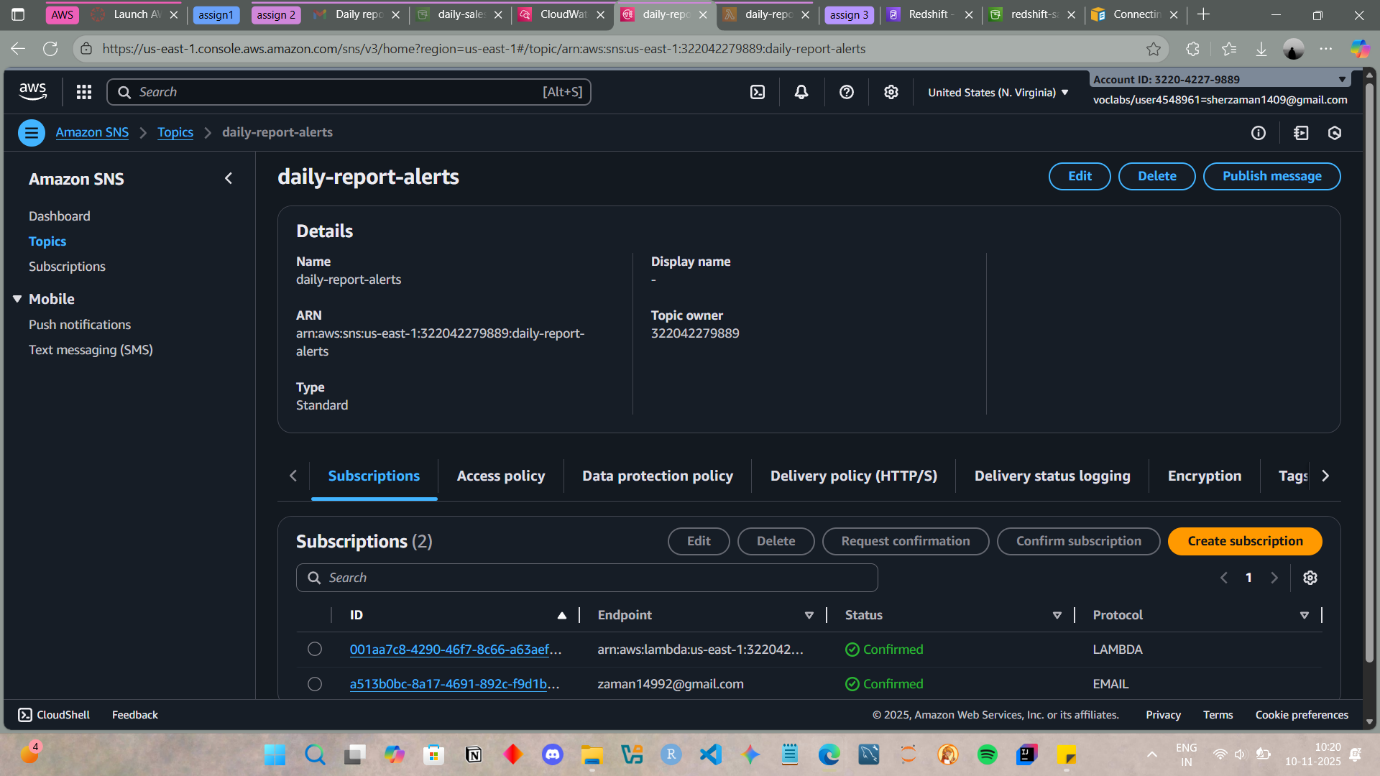
2. Write lambda to extract metadeta & send to SNS

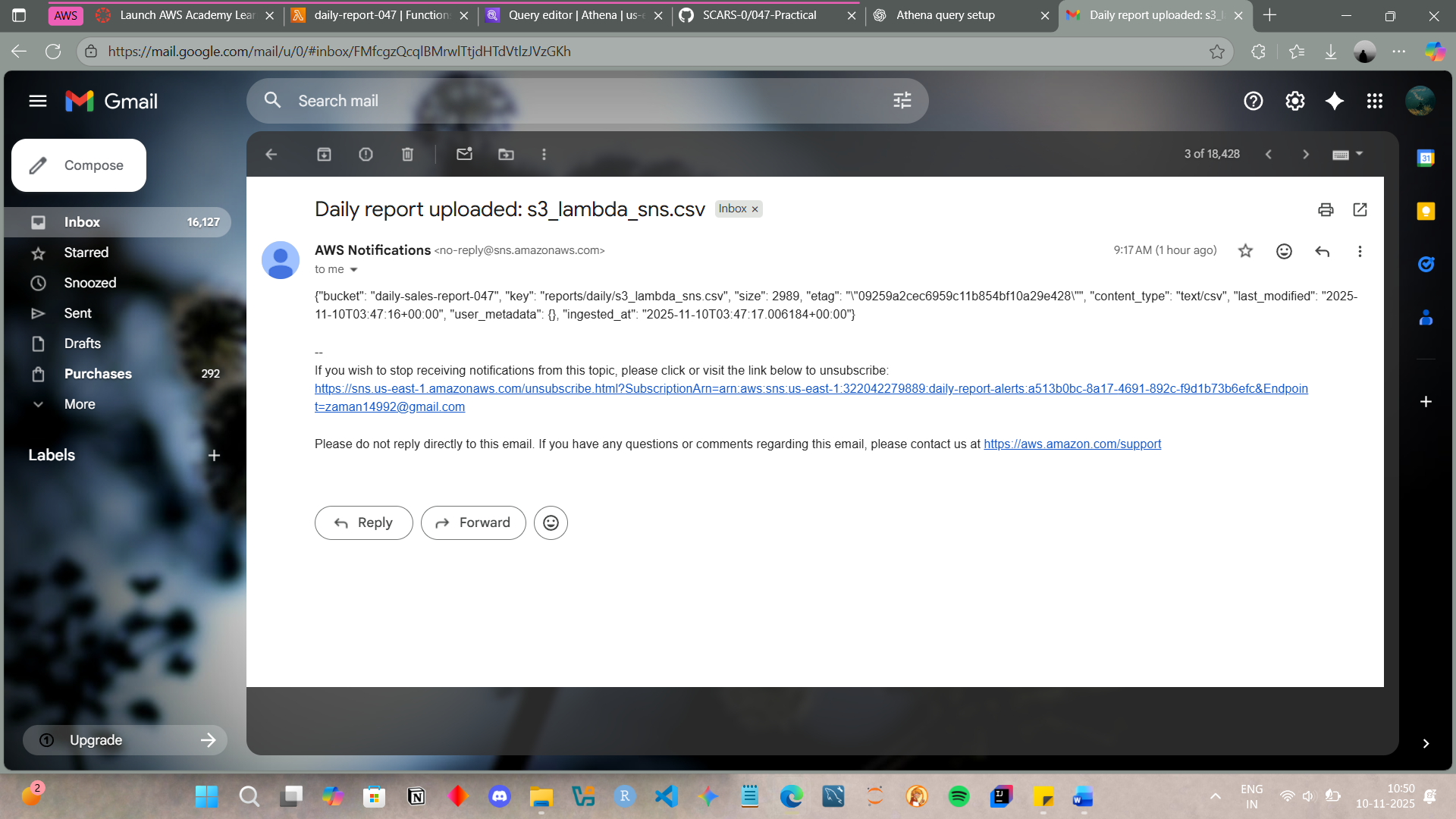
3. Log errors in CloudWatch Logs

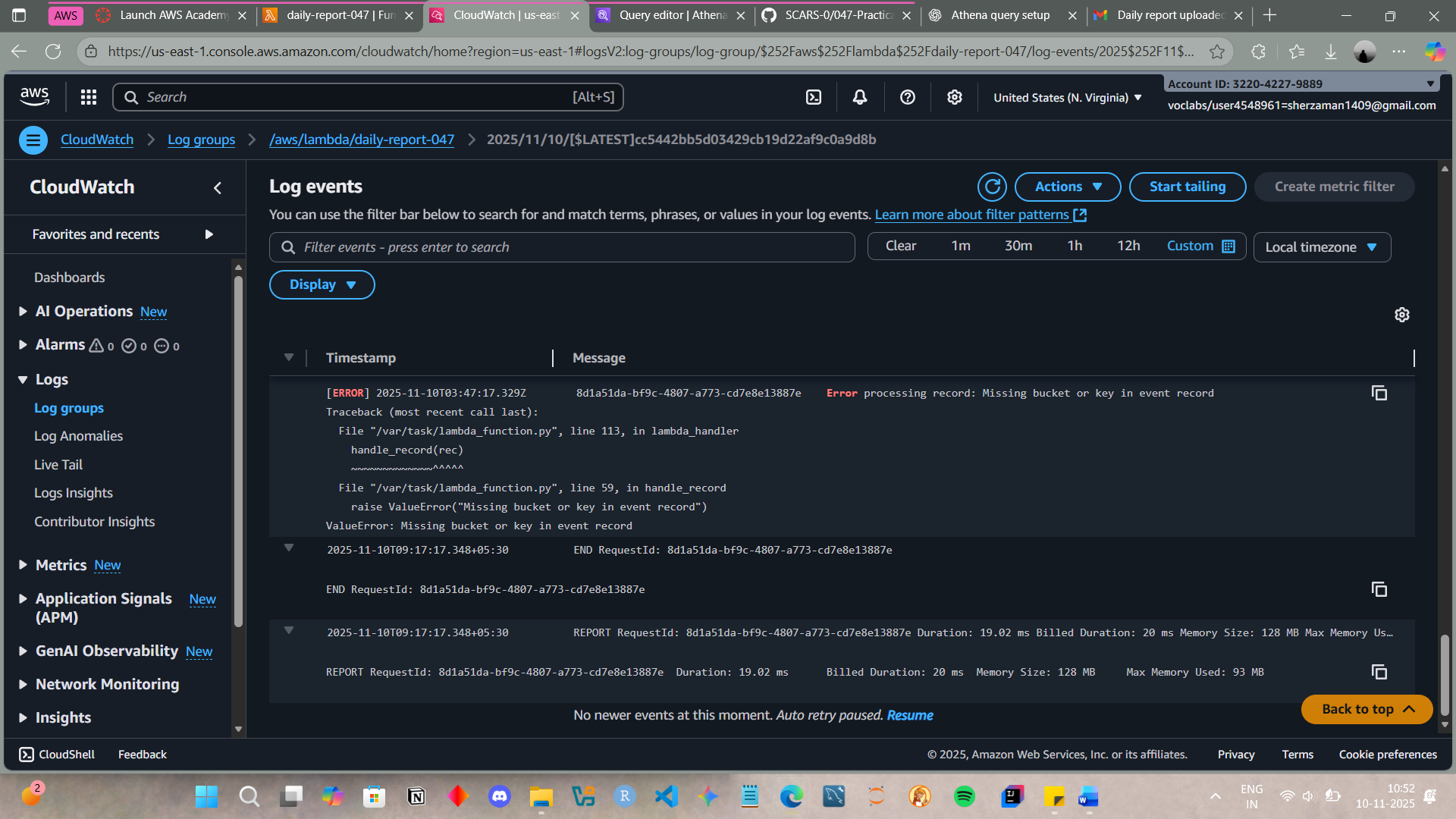












Q3. Daily csv data lands in prefix incoming/ with columns orders\_id, product\_id, quantity, price, order\_date. Some files have missing/invalid values

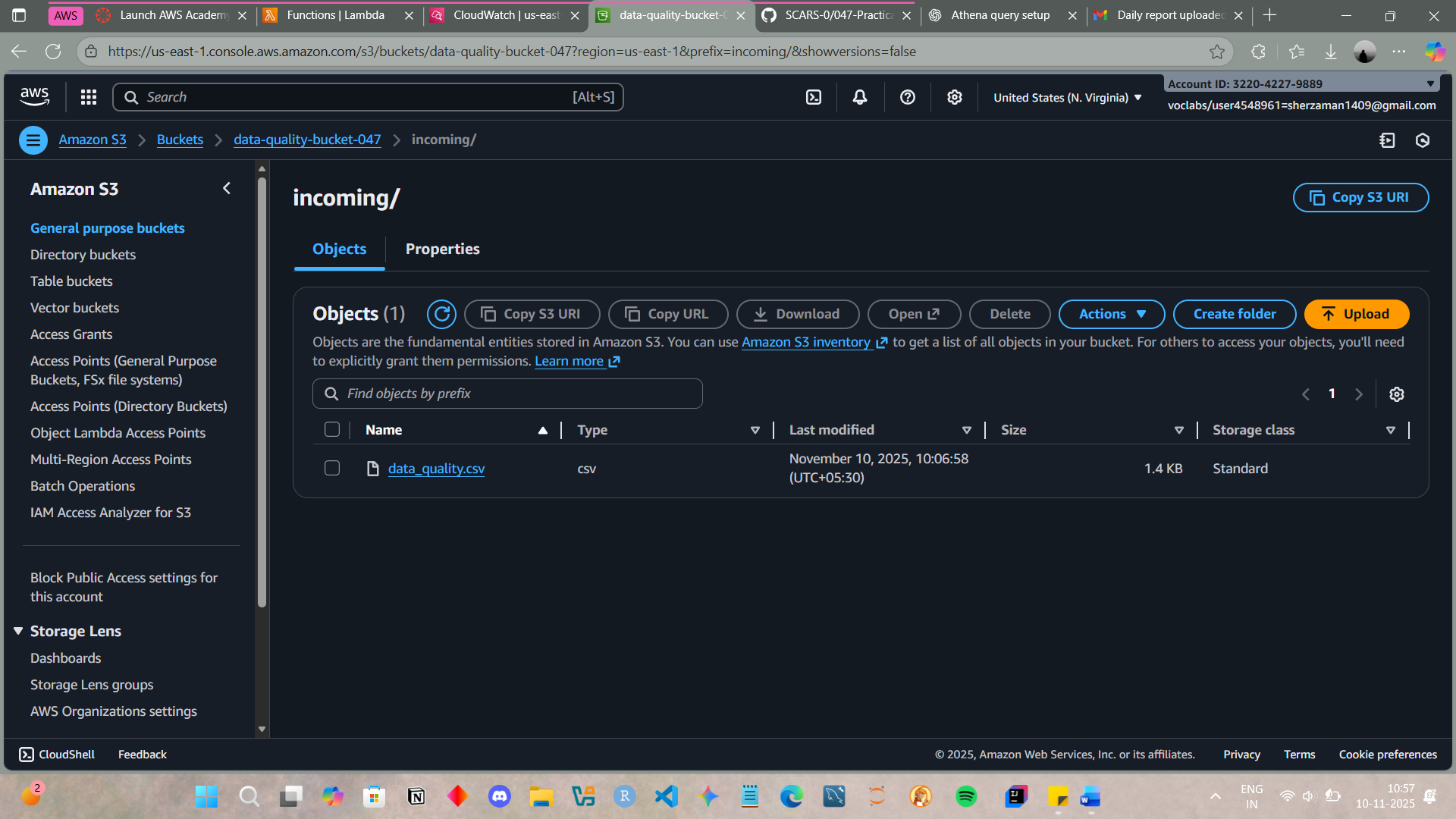
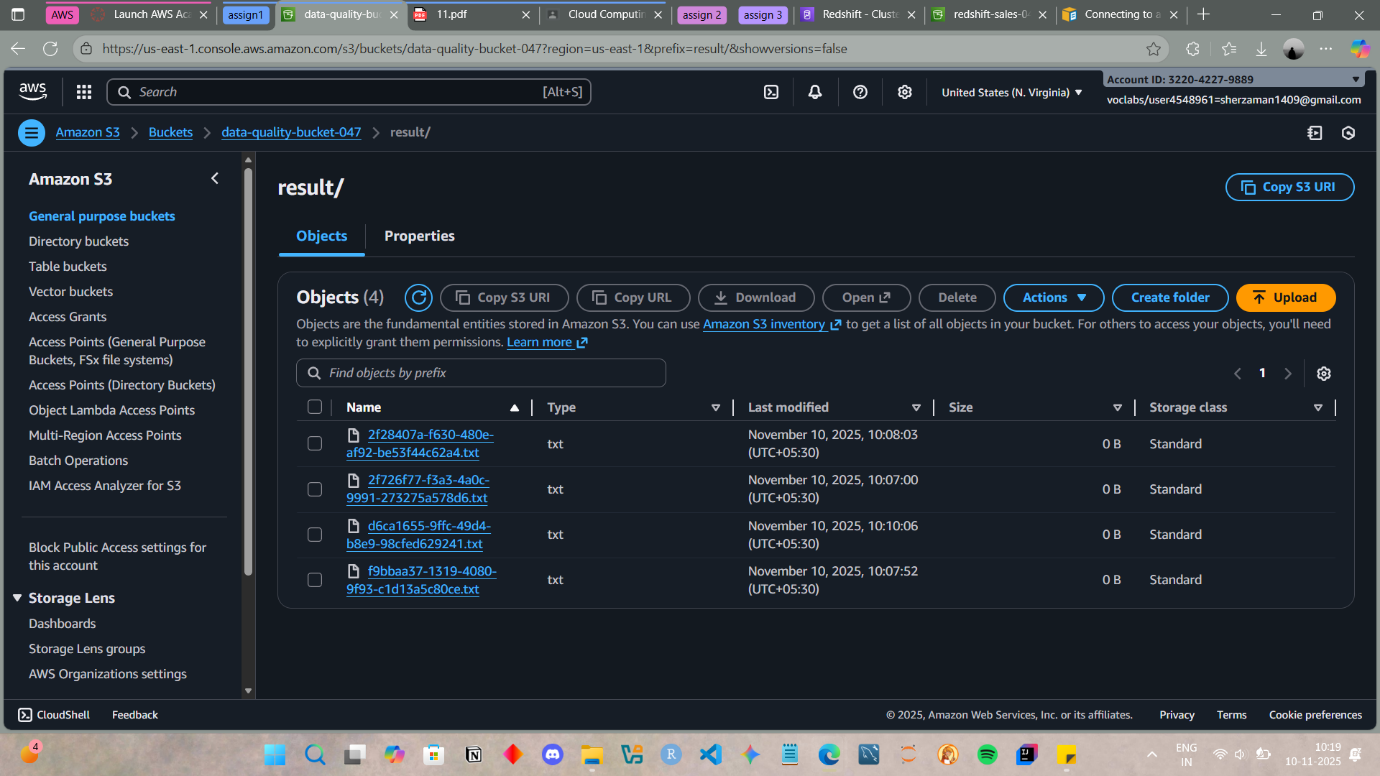
Task:

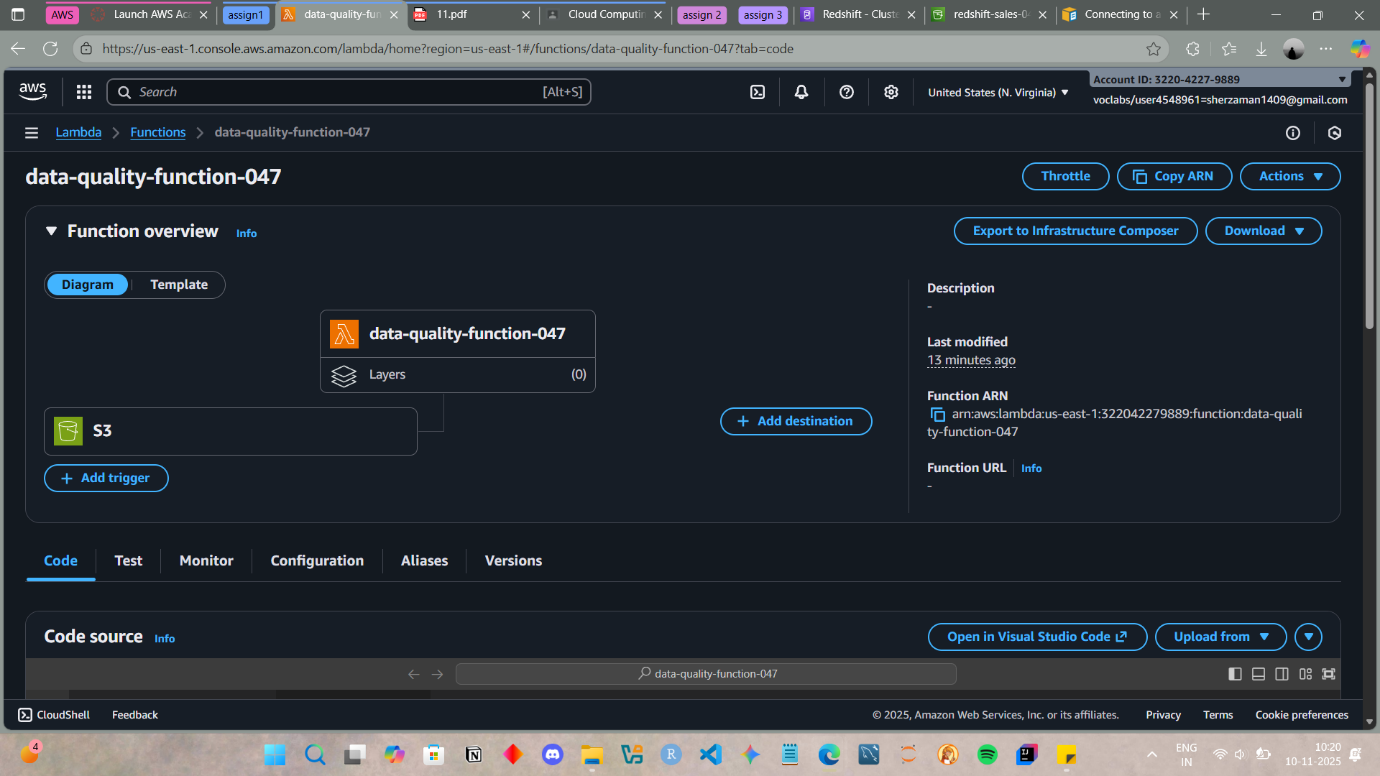
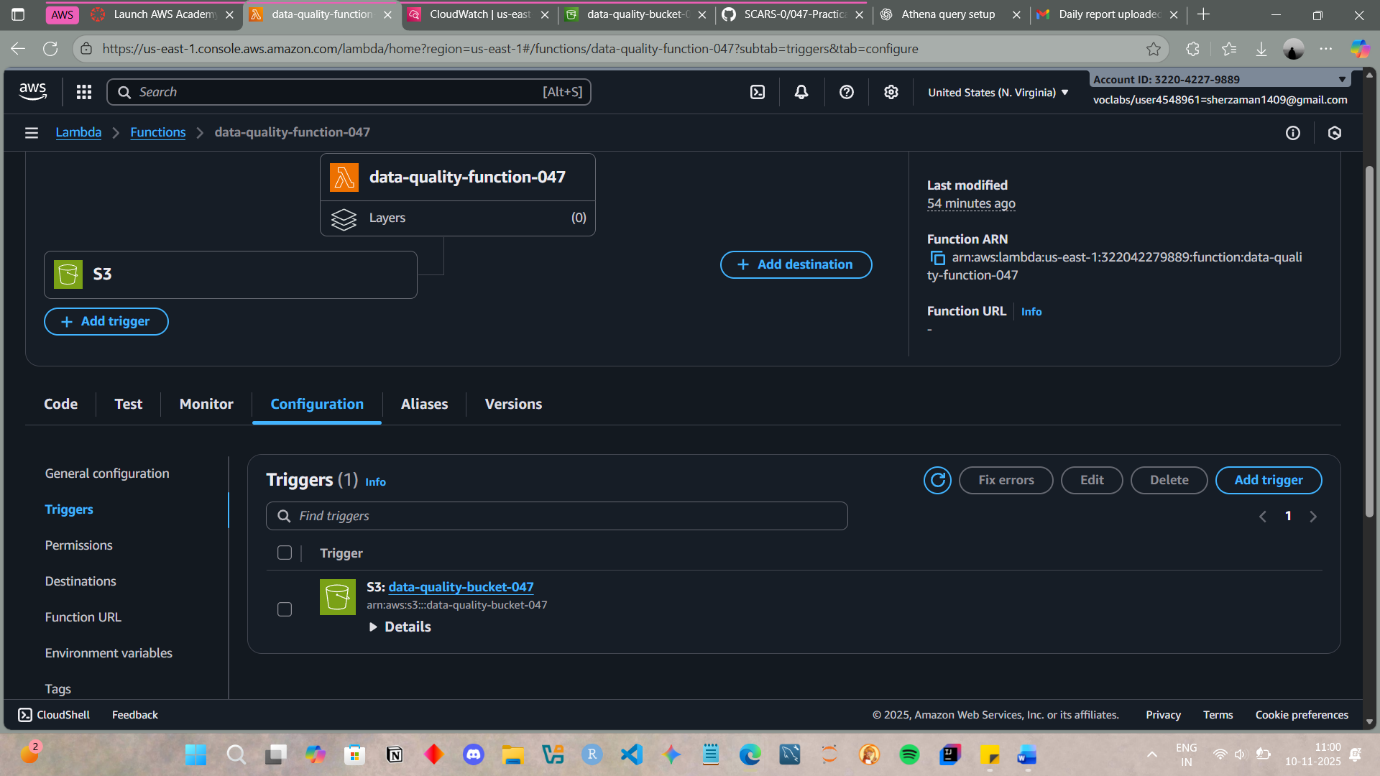
1. Trigger Lambda on S3 upload

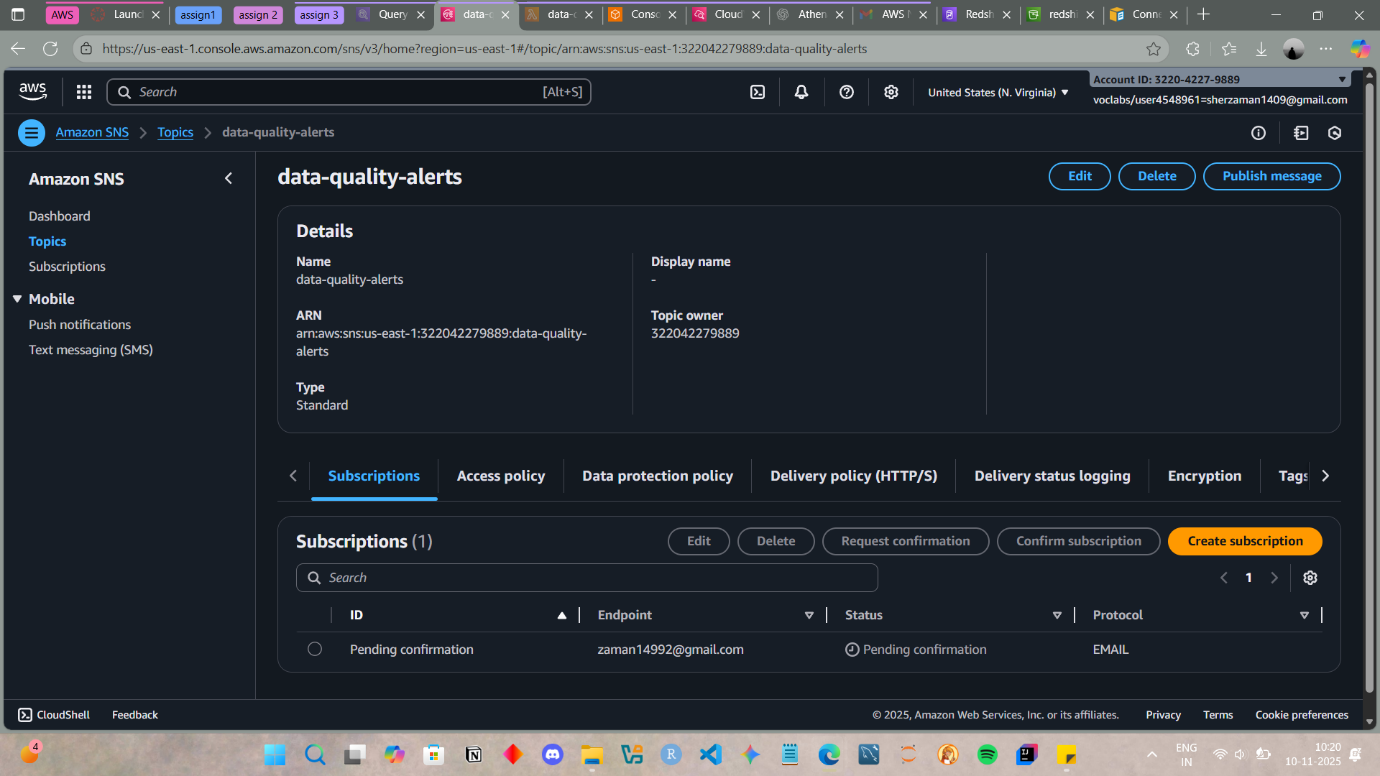
2. Lambda runs athena query via boto 3 checking missing order\_id or negative price

3. If bad records > 0 send message via SNS topic daily-quality-alerts

4. Log execution metrics on Cloud Watch Logs







Q4.

