# Hands-on #12: AWS Services Lambda & Glue & Athena: Serverless ETL Pipeline

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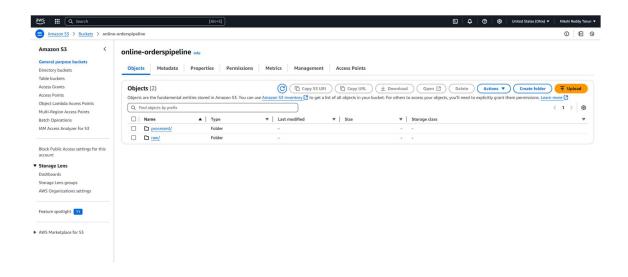
#### **GITHUB LINK-**

https://github.com/K-Tarunkumar/ServerlessETLPipeline.git

## Step-by-step setup

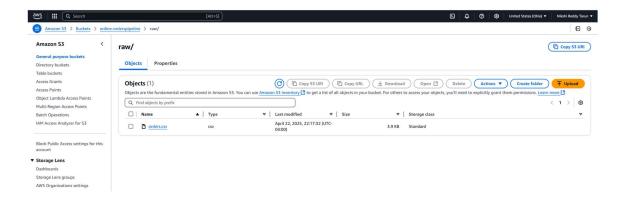
#### 1. Create the bucket and folders

- Create an S3 bucket, for example online-orders-pipeline.
- Inside it, add two empty folders named raw/ and processed/.



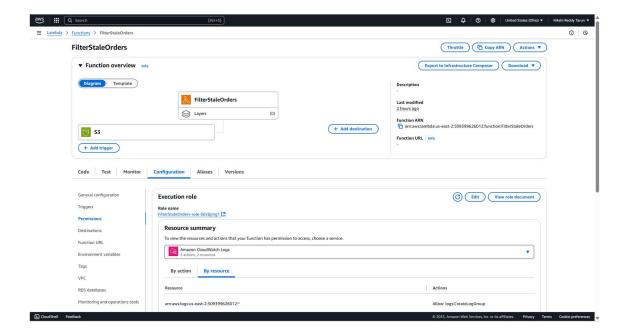
## 2. Generate sample data locally

Run the following Python script; it creates orders.csv with 100 random rows.



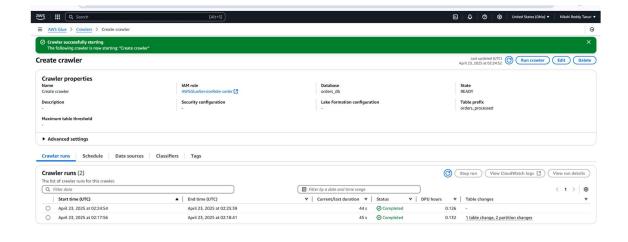
#### 3. Create the Lambda function

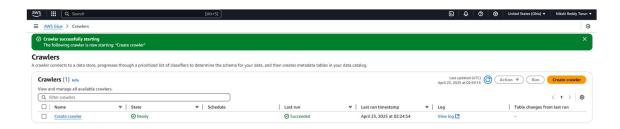
Handler (Python 3.9 or newer)



# 4. Set up a Glue crawler

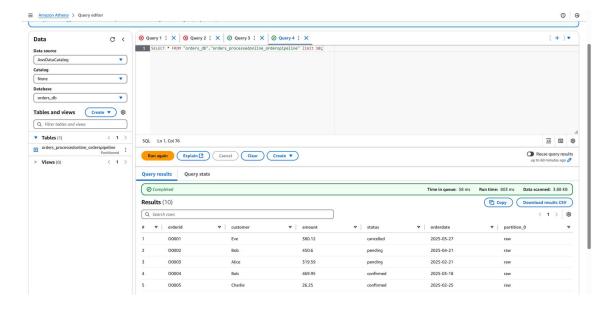
- 1. AWS Glue → Crawlers → Create.
- 2. Source: s3://<bucket>/processed/
- 3. Target database: create (or reuse) one, e.g. orders\_db.
- 4. Table name: orders processed.
- 5. Run the crawler after Lambda finishes.

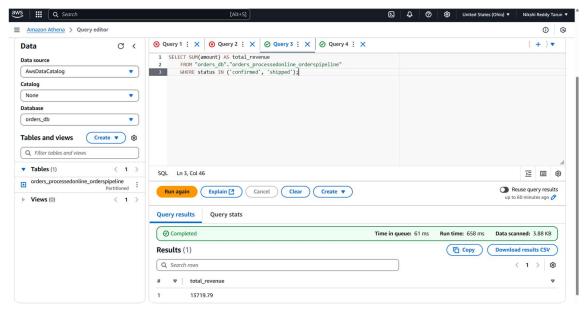




# 5. Query the data with Athena

Make sure Athena's query-result location is set, then run:





### 6. CloudWatch logs

CloudWatch Logs → Log groups → /aws/lambda/<function-name>

