Customer Sales Data Transformation with AWS Glue

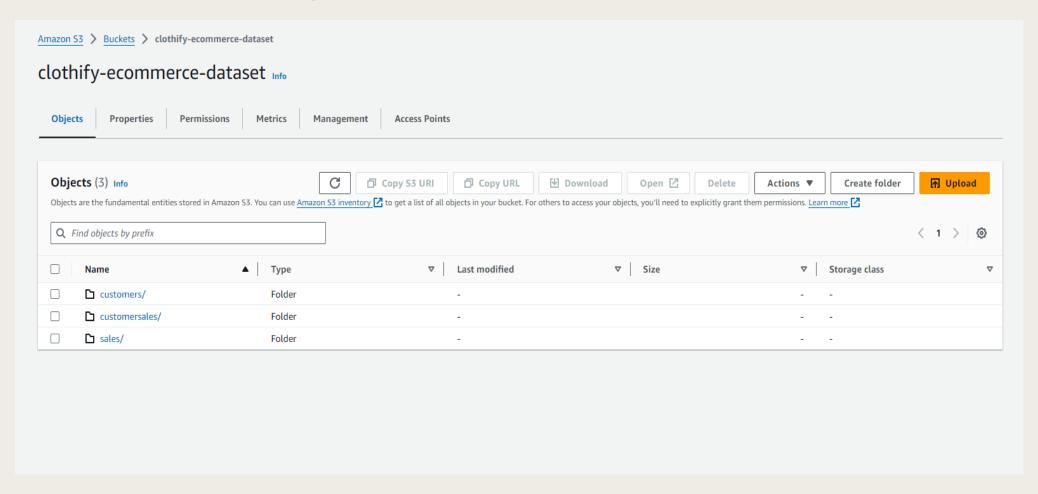
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Overview

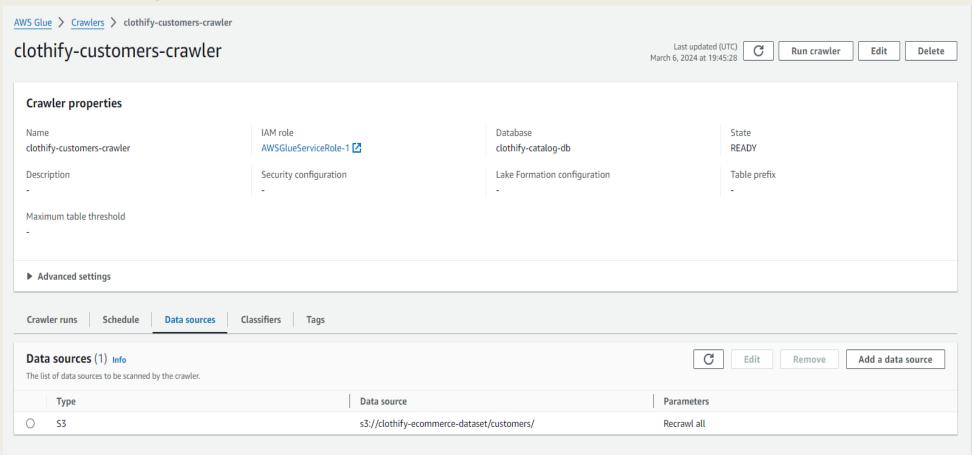
Built an ETL pipeline using AWS Glue, seamlessly handling data from ingestion through transformation and storage in Amazon S3.

- ✓ Leveraged AWS services for integrated customer and sales data analysis.
- ✓ Utilized Amazon S3 for efficient data storage.
- ✓ Employed AWS Glue for metadata management, ETL processes, and data transformation.
- ✓ Combined datasets, apply filtering, and enhance data clarity with AWS Glue.
- ✓ Stored transformed data in S3, organized using Parquet files.
- ✓ Utilized Amazon Athena for efficient querying, facilitating comprehensive analysis.

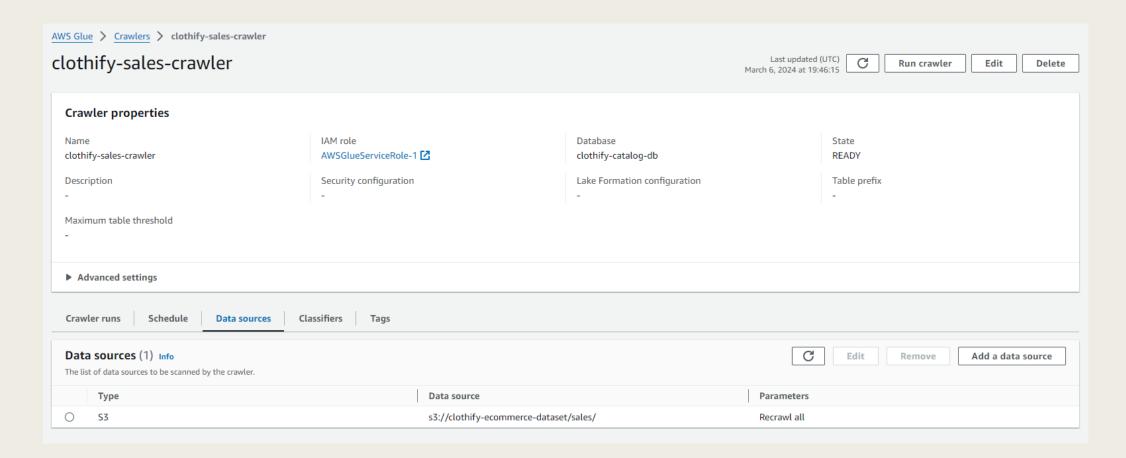
Created three S3 folders in buckets: two dedicated to customers and sales data, and one for storing Glue job results.



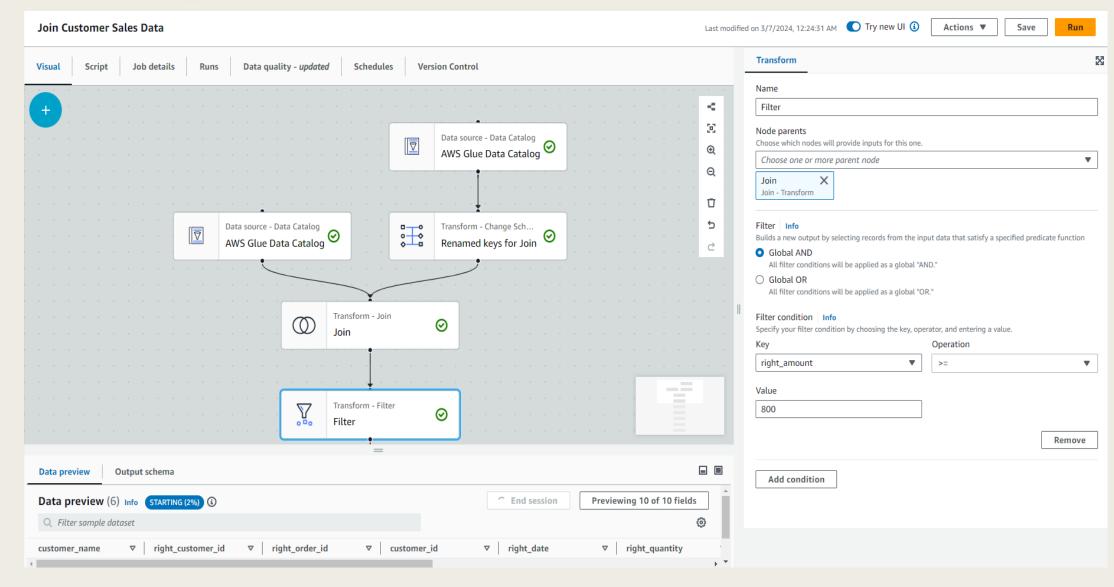
Utilized Glue Crawlers to catalog metadata for Customer Dataset and creating Data Catalog tables.



Same Process for Sales Dataset and creating Data Catalog tables.



Developed a Glue ETL job using two Data Catalog tables for customers and sales datasets.

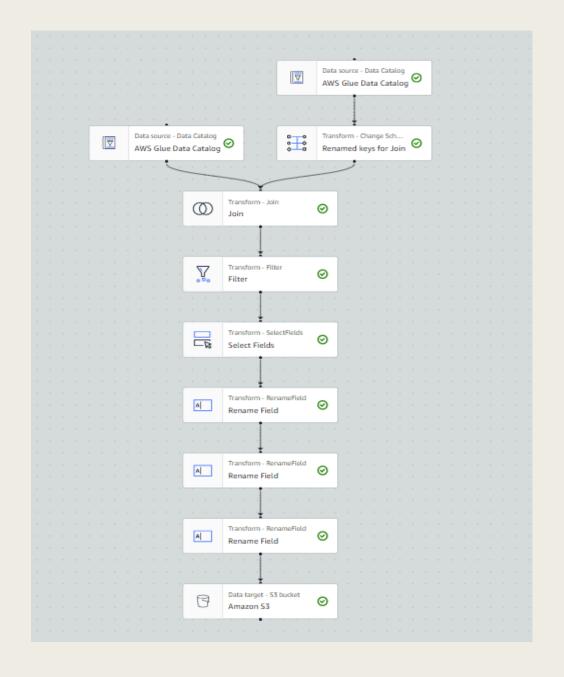


Utilized AWS Glue ETL Job with metadata from Data Catalog tables.

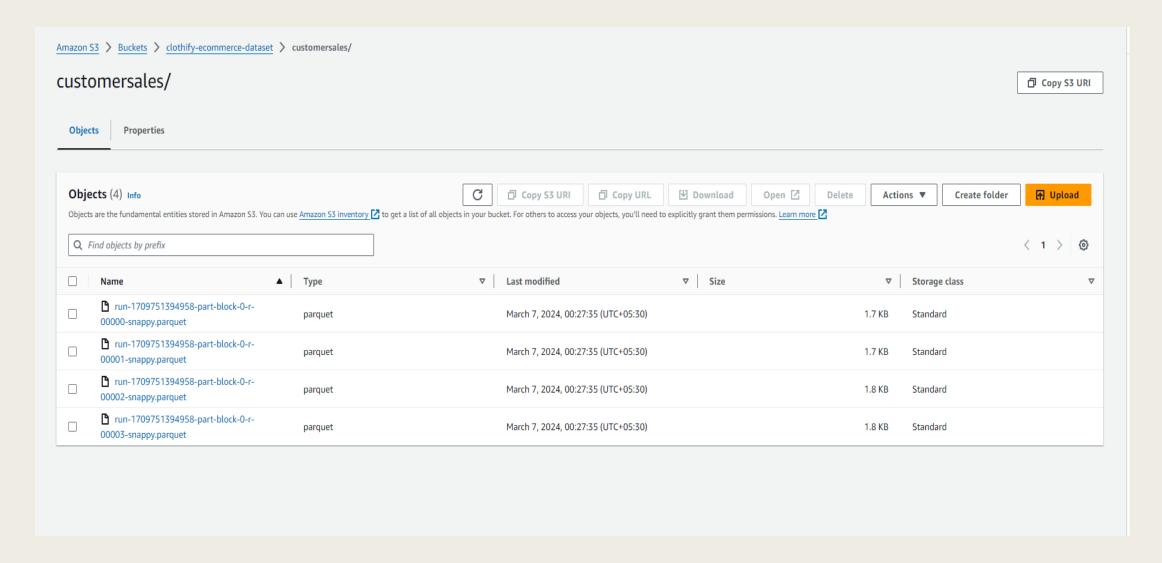
Executed a join operation on 'customer id' and applied a filter for orders exceeding \$800.

Implemented data transformation by renaming key sales fields to 'order date', 'order ID', and 'order amount.'

Organized and stored the transformed dataset in the 'customer-sales' folder within the specified S3 bucket.



Result from Glue Job Stored in customersales folder in s3 bucket



Leveraged Athena to query the combined dataset stored in Parquet format.

