# School of Information studies Syracuse University

# **IST615 - Cloud Management**

# **Final Project Progress Report**

Professor in-charge: Carlos E. Caicedo Bastidas

# Group 6:

# Names:

1) Rahul Jadhav SUID: 705889151

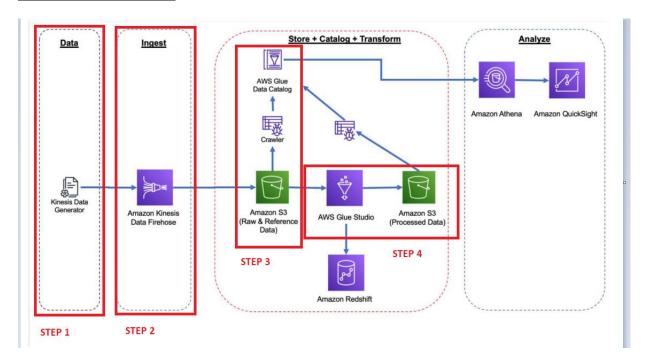
2) Ramazan Yener SUID: 4604870161

3) Francia Lizeth Ortiz Leyva SUID: 2566771622

4) Himamshu Chandrashekara SUID: 254732602

Due Date - 11/10/2021

### Tasks completed so far -



## <u>Step 1</u> -

Generated Data from Kinesis Data generator.

## <u>Step 2</u> –

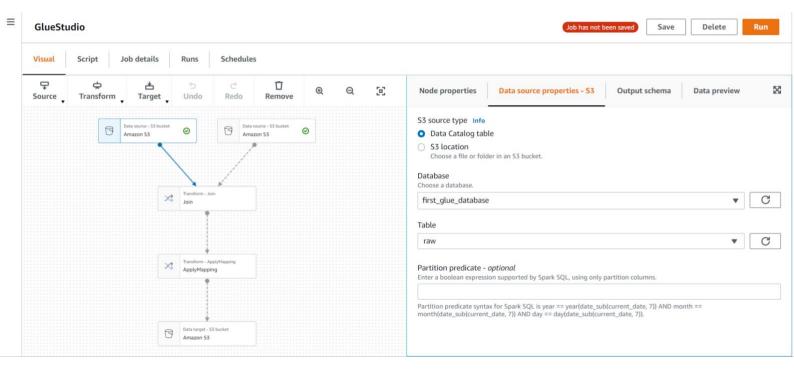
Delivered the data to Amazon S3 bucket with Kinesis Firehose delivery stream. Processed and stored our data into 1<sup>st</sup> S3 bucket (Raw and Reference data).

## <u>Step 3</u> –

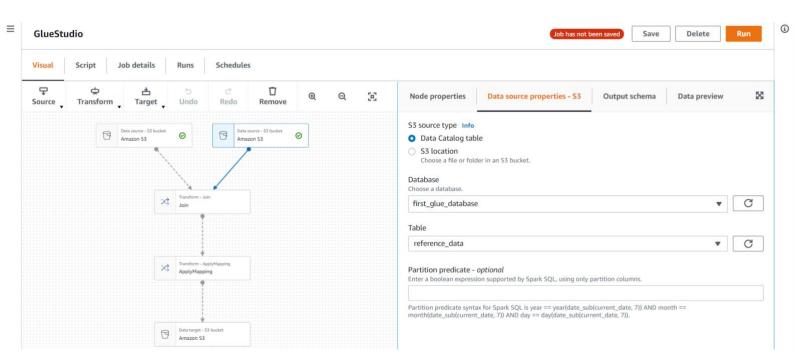
Registered the datasets in the AWS Glue Data Catalog and automated the metadata captured with the help of Glue Crawlers.

### <u>Step 4</u> –

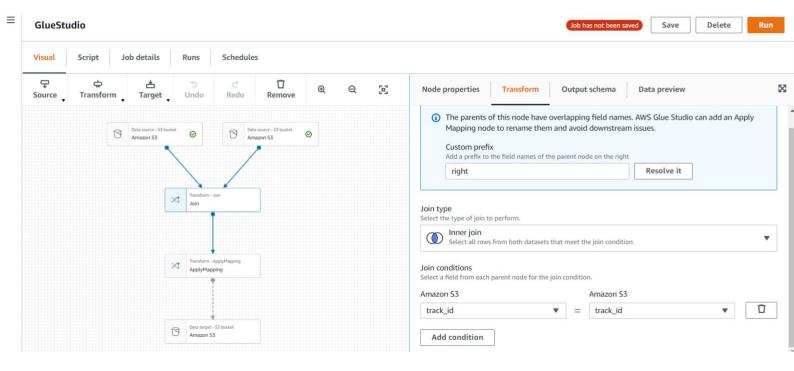
Transformed Data from 1<sup>st</sup> AWS s3 bucket from table named raw to 2<sup>nd</sup> AWS S3 bucket (Processed data) from table named reference\_data using AWS Glue Studio.



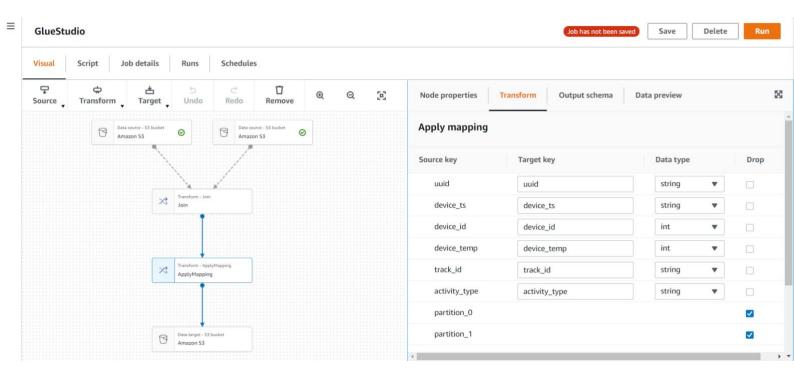
Description: In the above screenshot we selected our first source data from Data Catalog Table i.e. raw Table



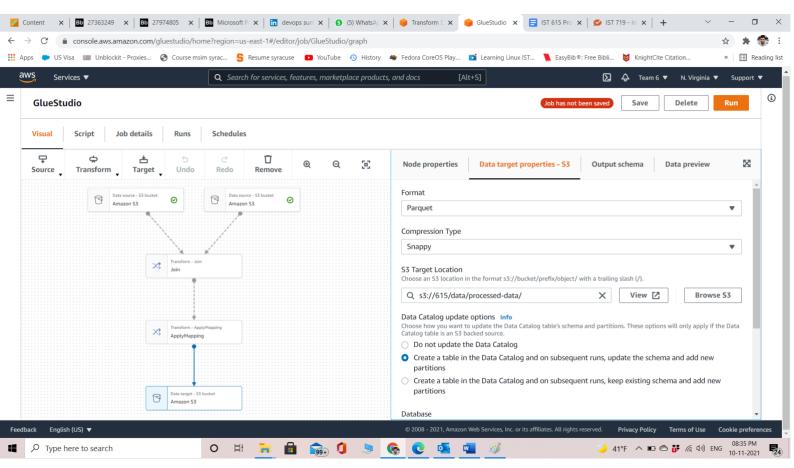
Description: In the above screenshot we selected the another source data from Data Catalog Table i.e. reference\_data Table.



Description: We used inner join transformation to join the parent s3 buckets data(raw & reference\_data) using the common field as track\_id



Description: In the above screenshot we apply mapping to the new target keys for the pushing the new processed dat into s3 bucket.



Description: In the above screenshot we provided the path for the target s3 bucket.

#### Issues Encountered

• As of now, we haven't experienced any obstacles.

#### Changes to the project/goals

• None

#### Plan for completion of project week by week plan

#### Week 11/15 - 11/21

- Pushed this data into an Amazon Redshift Data for easier accessibility and referencing.
- Analyse the data using AWS Athena using SQL queries.

#### Week 11/29 - 12/05

- Use Amazon Quicksight to build visualizations over the data collected and stored in S3.