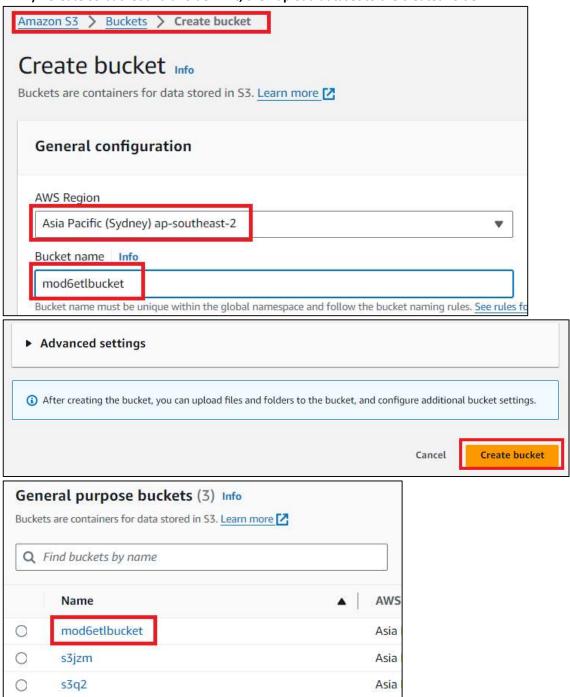
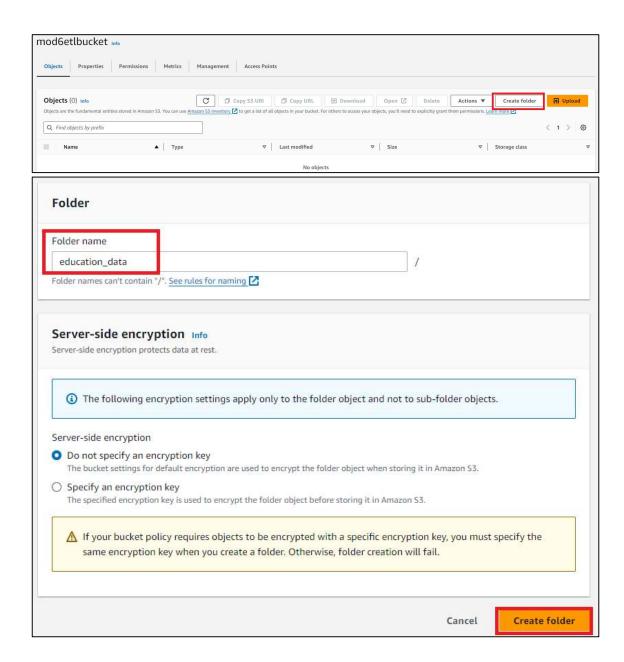
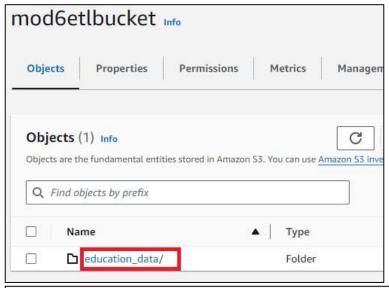
An ETL Data Pipeline with Storage layer, ETL (processing and datastore) layer and visualization layer:

Storage Layer – S3

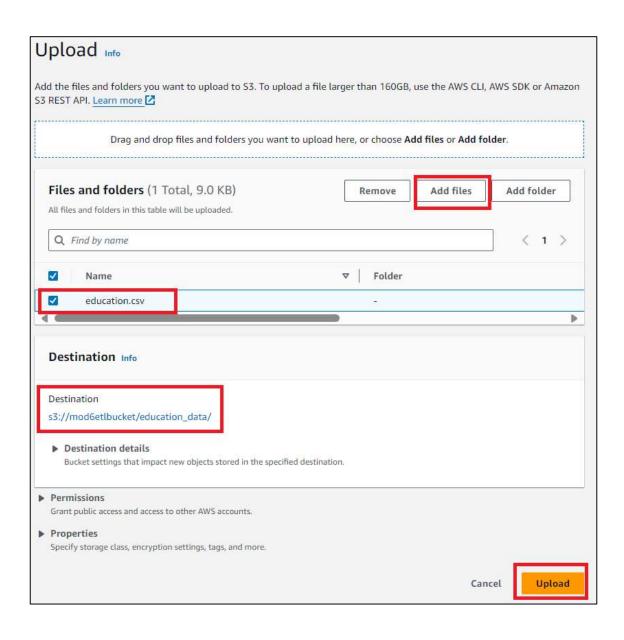
1) Create S3 bucket and a folder in it, then upload dataset to the created folder:

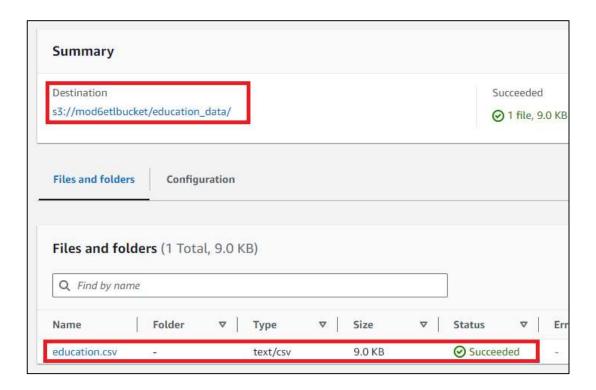






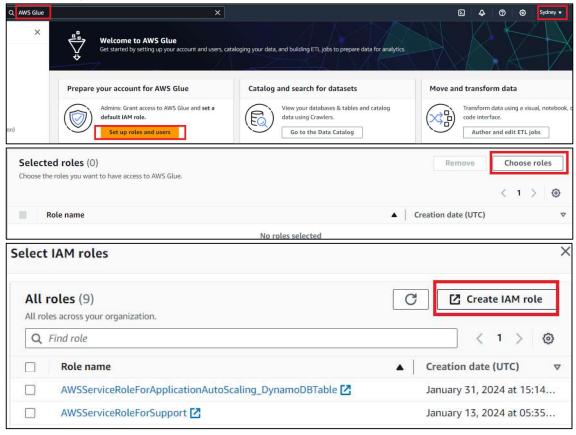


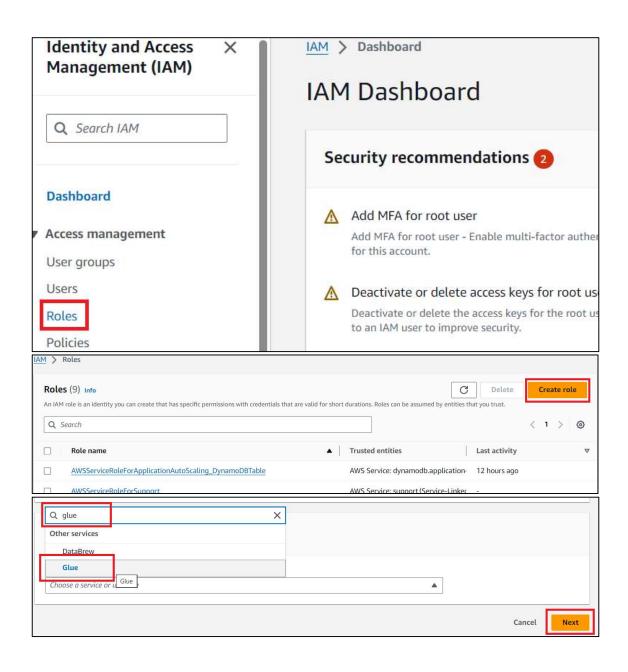


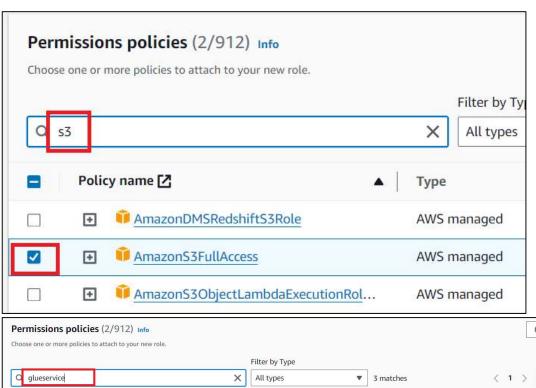


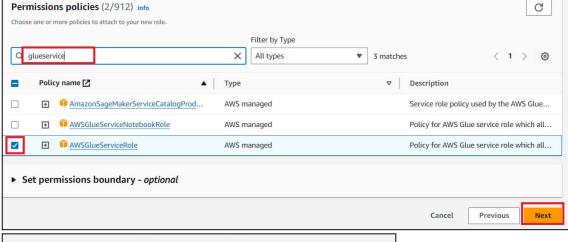
ETL Layer - AWS Glue and Athena

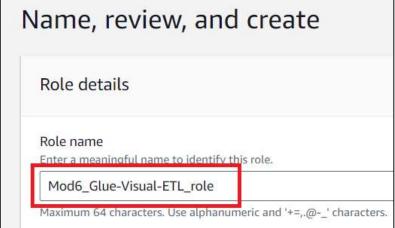
2) Set up AWS Glue IAM role for S3 data read/write:

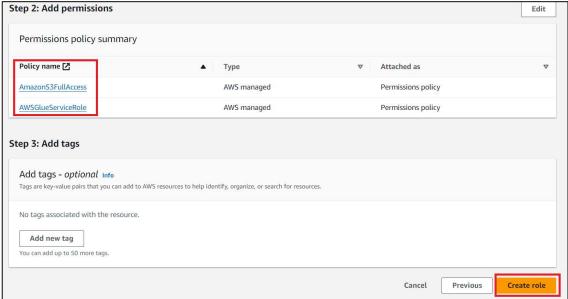


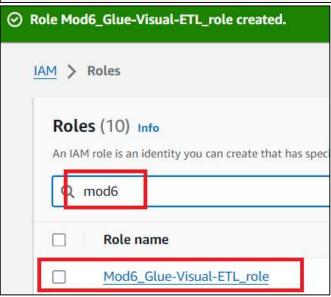




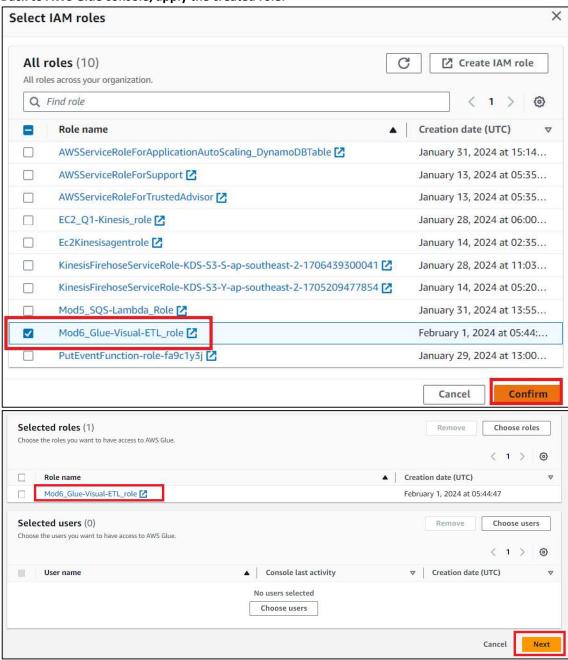


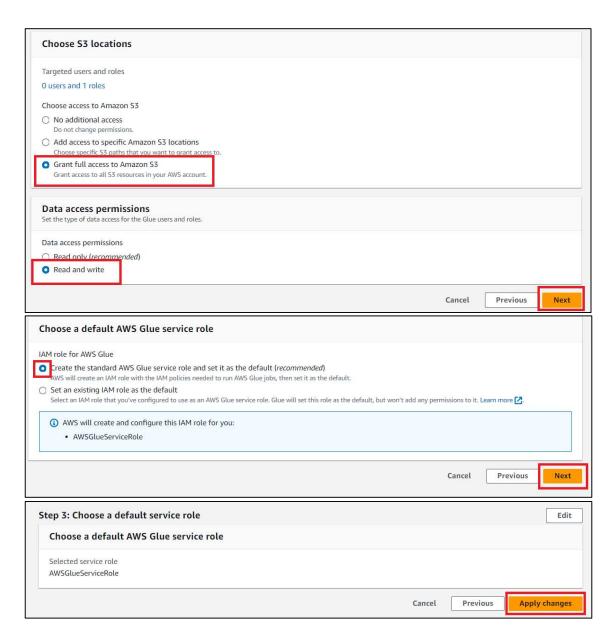




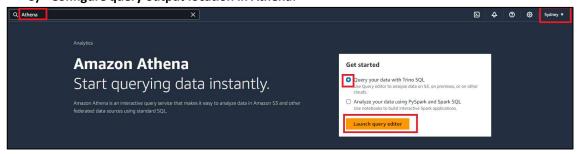


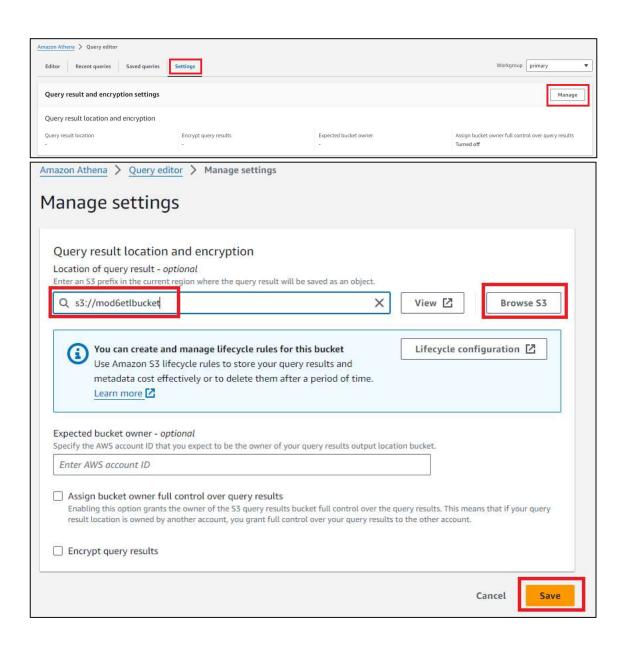
Back to AWS Glue console, apply the created role:



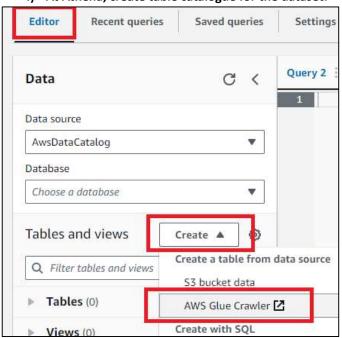


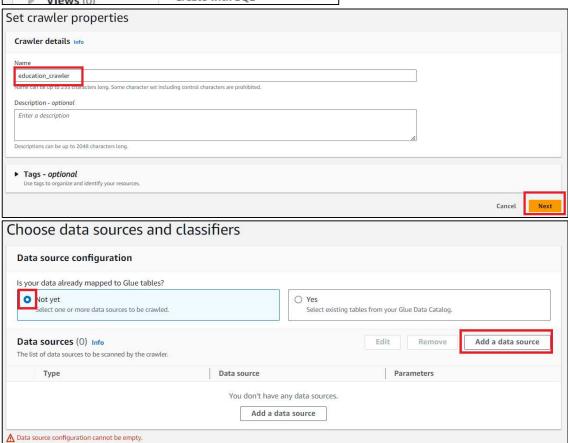
3) Configure query output location in Athena:

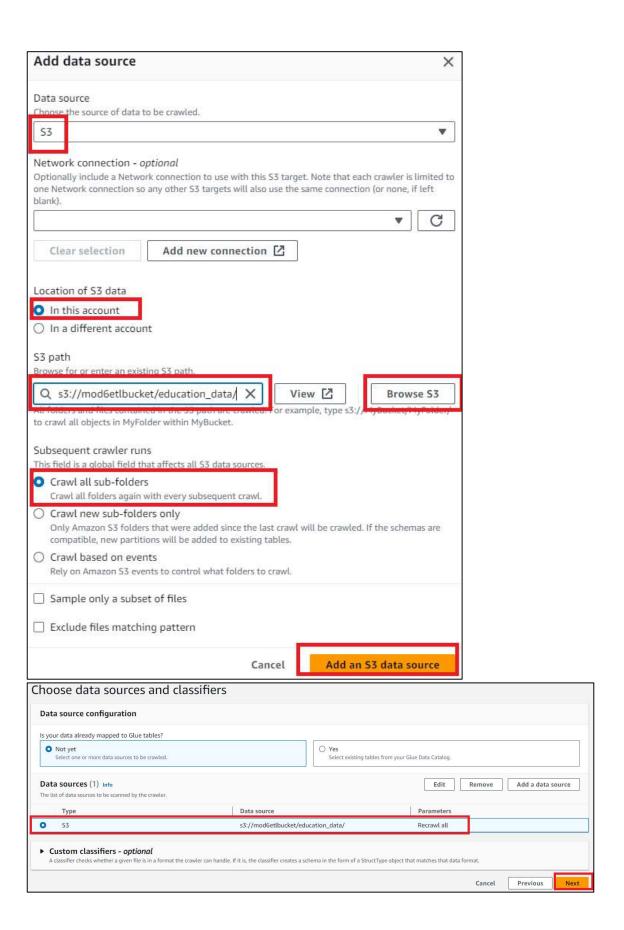


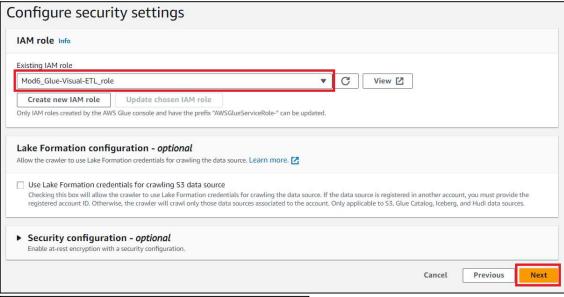


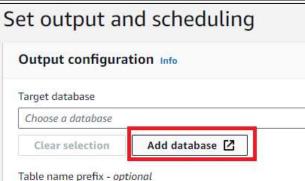
4) At Athena, create table catalogue for the dataset:

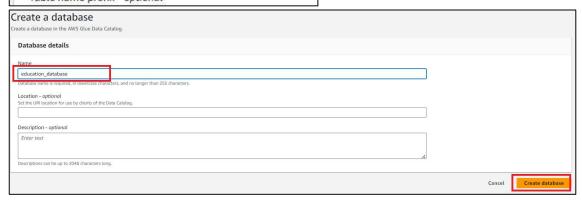


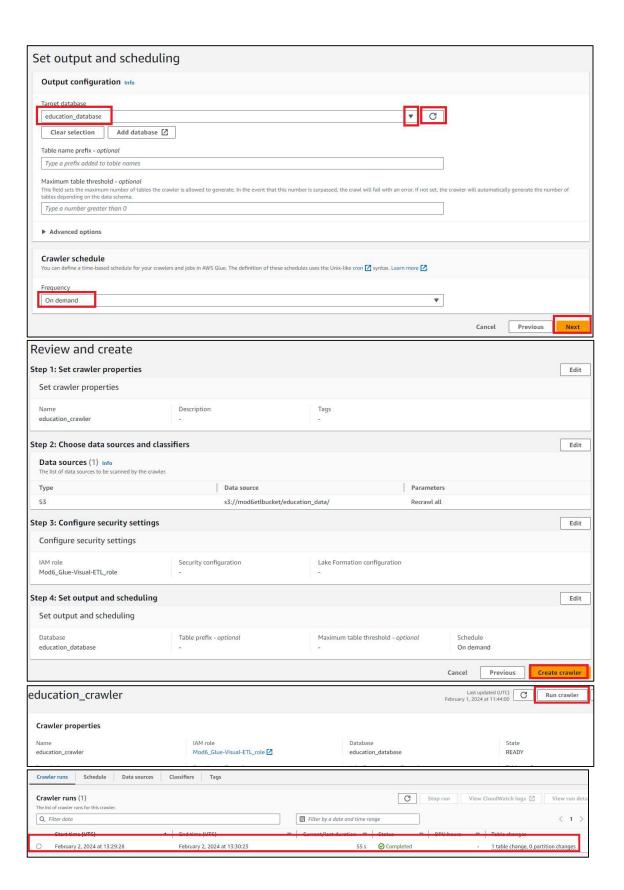




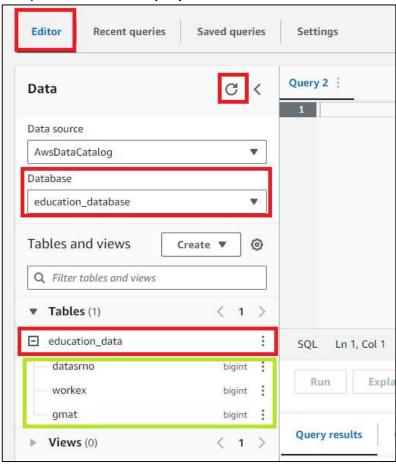


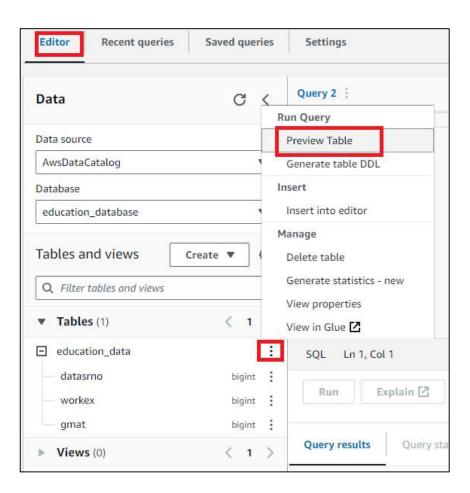






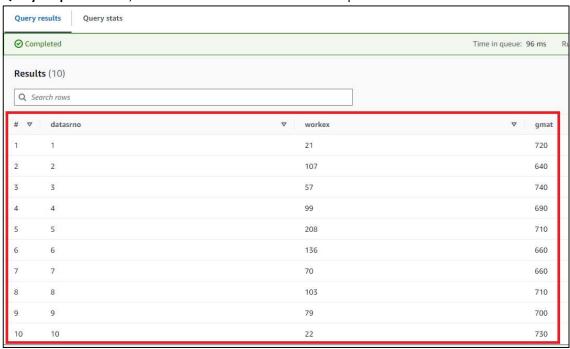
5) Back to Athena to query data:





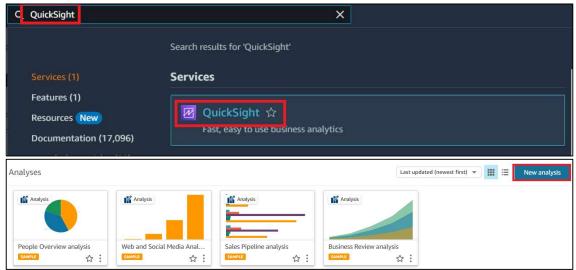
Query command:

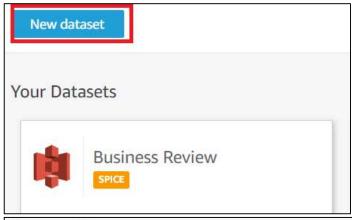
Query output: Success, returned with 10 rows of records as a preview.

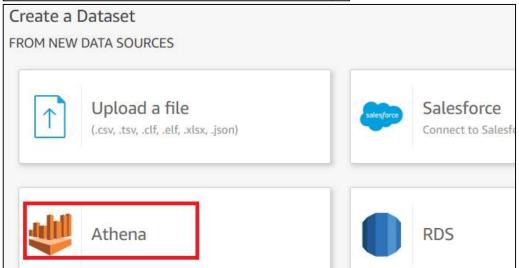


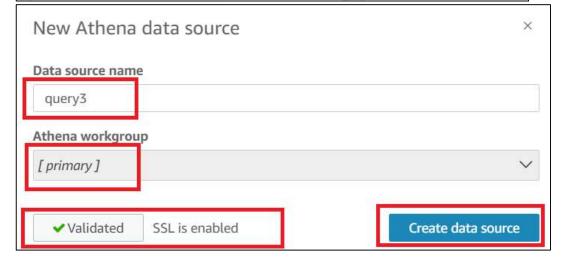
Visualization Layer - AWS QuickSight

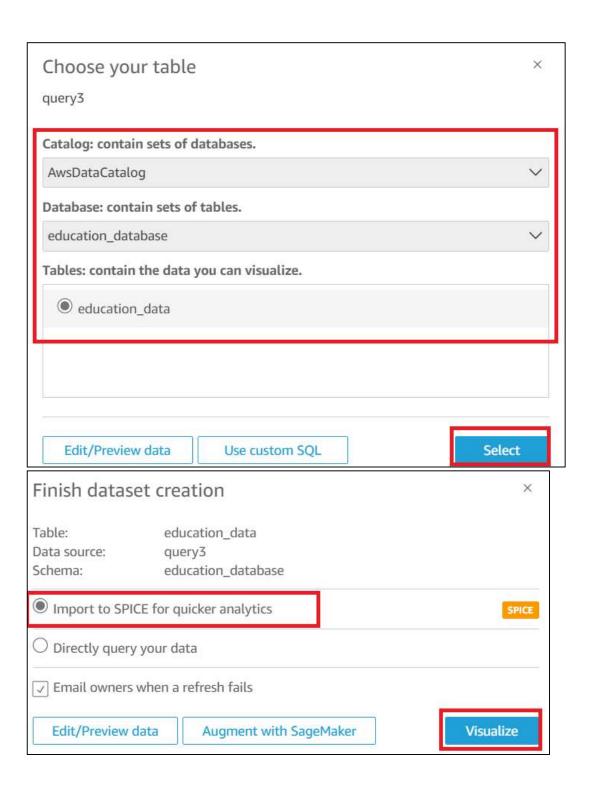
- 6) Data visualization with AWS QuickSight:
 - (i) Load dataset to QuickSight:

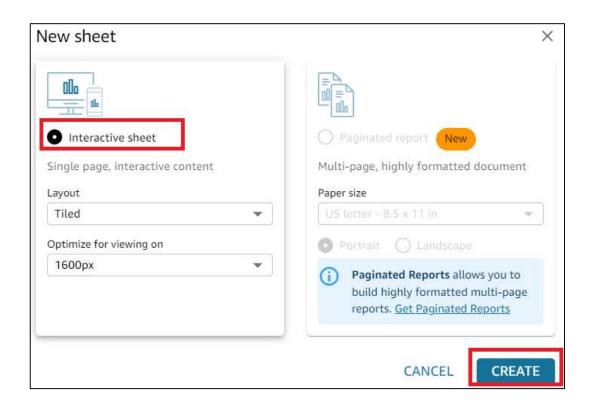






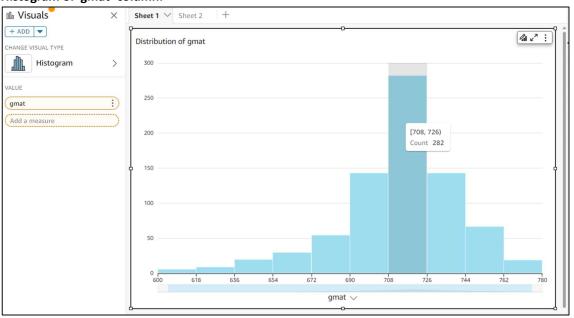






(ii) Visualize data in QuickSight:

Histogram of 'gmat' column:



Histogram of 'workex' column:

