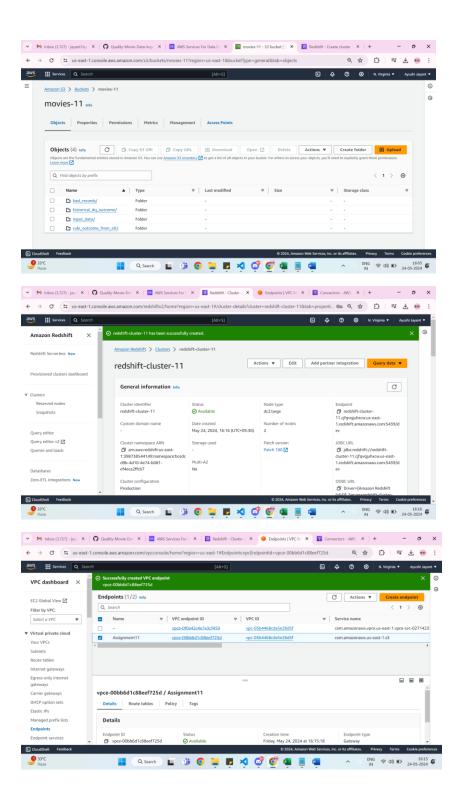
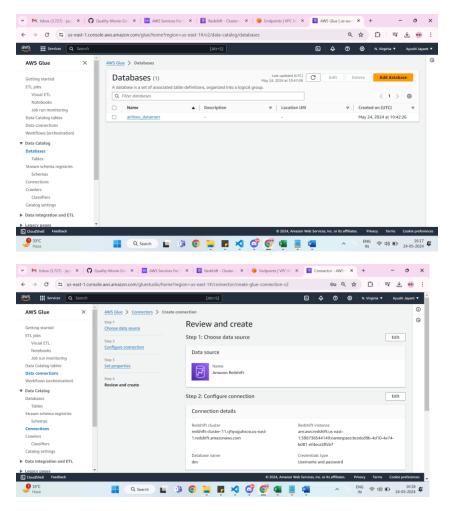
Assignment11:Movie Quality Data Ingestion

- 1)We have created relevant folders in s3 bucket with movie data inside input_data folder in s3 bucket
- 2)created redshift cluster
- 3)created vpc security groups inbound and outbound rules along with s3 bucket as vpc endpoint
- 4)created glue database as named airlines datamart
- 5)created redshift schema and table for movie data in guery editor v2
- 6)we have made a data quality rule set
- 7)created visual etl glue job and set the eventbridge rule according to the data quality rule
- 8)After successfully running glue job we check the table in redshift with the relevant columns
- 9)We have also received bad records in our folder located in s3 bucket
- 10)created a materialised view from our redshift table and query on basis of that
- 11)created step function to orchestrate our pipeline and attached sns topic with the same for success/failure notifications
- 12)We have created an eventbridge rule toinvoke the step function as soon as an object is created in the movie-data bucket
- 13)step functions ran successfully and we got the notification on mail
- 14)After querying in the redshift, we get the total count of records as 99 from
- 33 because we have the refreshed data I the materialised view



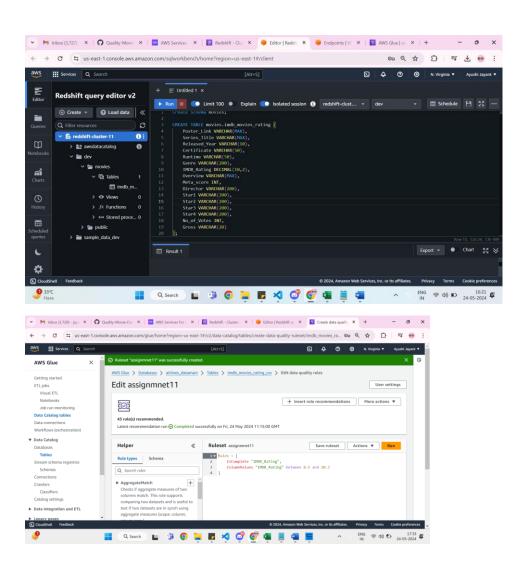


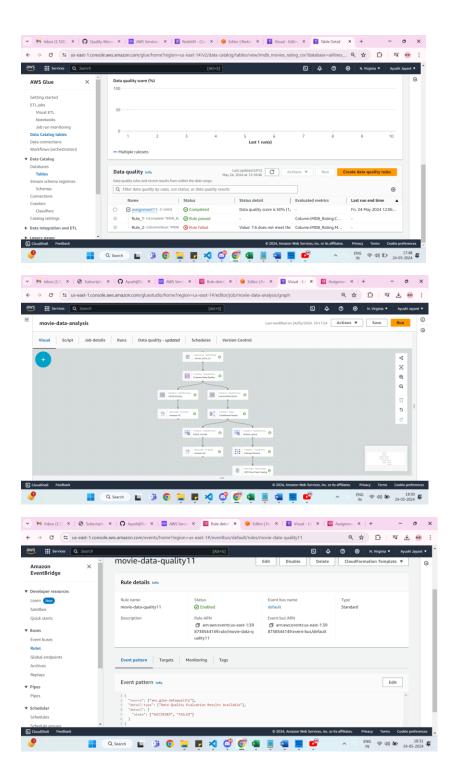
Create schema movies;

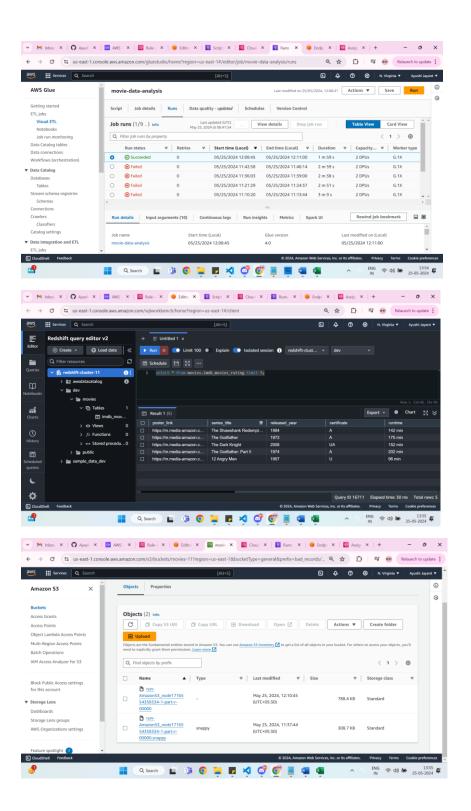
```
CREATE TABLE movies.imdb_movies_rating (
Poster_Link VARCHAR(MAX),
Series_Title VARCHAR(MAX),
Released_Year VARCHAR(10),
Certificate VARCHAR(50),
Runtime VARCHAR(50),
Genre VARCHAR(200),
IMDB_Rating DECIMAL(10,2),
Overview VARCHAR(MAX),
Meta_score INT,
```

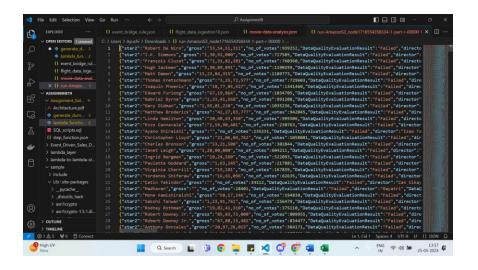
```
Director VARCHAR(200),
Star1 VARCHAR(200),
Star2 VARCHAR(200),
Star3 VARCHAR(200),
Star4 VARCHAR(200),
No_of_Votes INT,
Gross VARCHAR(20)
```

);

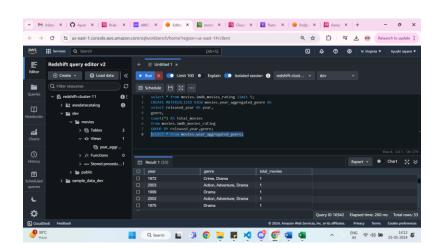


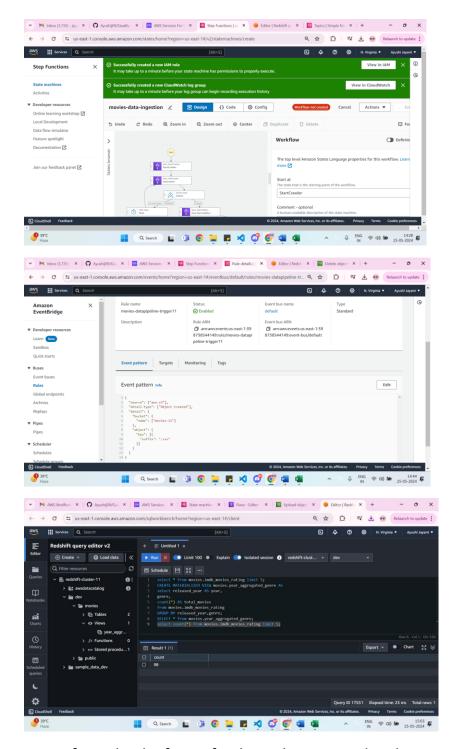






CREATE MATERIALIZED VIEW movies.year_aggregated_genre AS select released_year AS year, genre, count(*) AS total_movies from movies.imdb_movies_rating GROUP BY released_year,genre;





Now, if we check after refreshing the materialised vioew, the count has been tripled i.e. from $33 \rightarrow 99$

