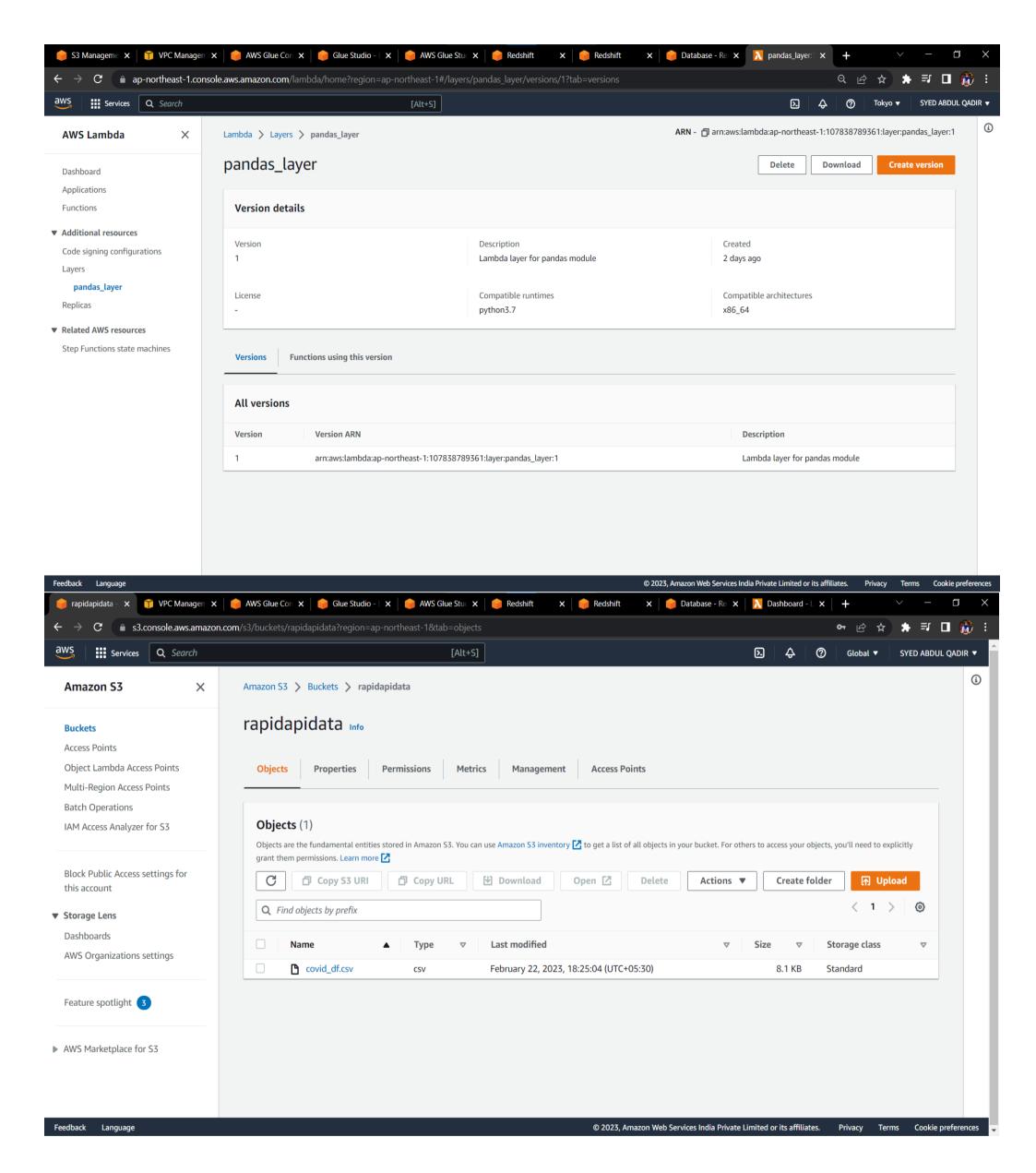
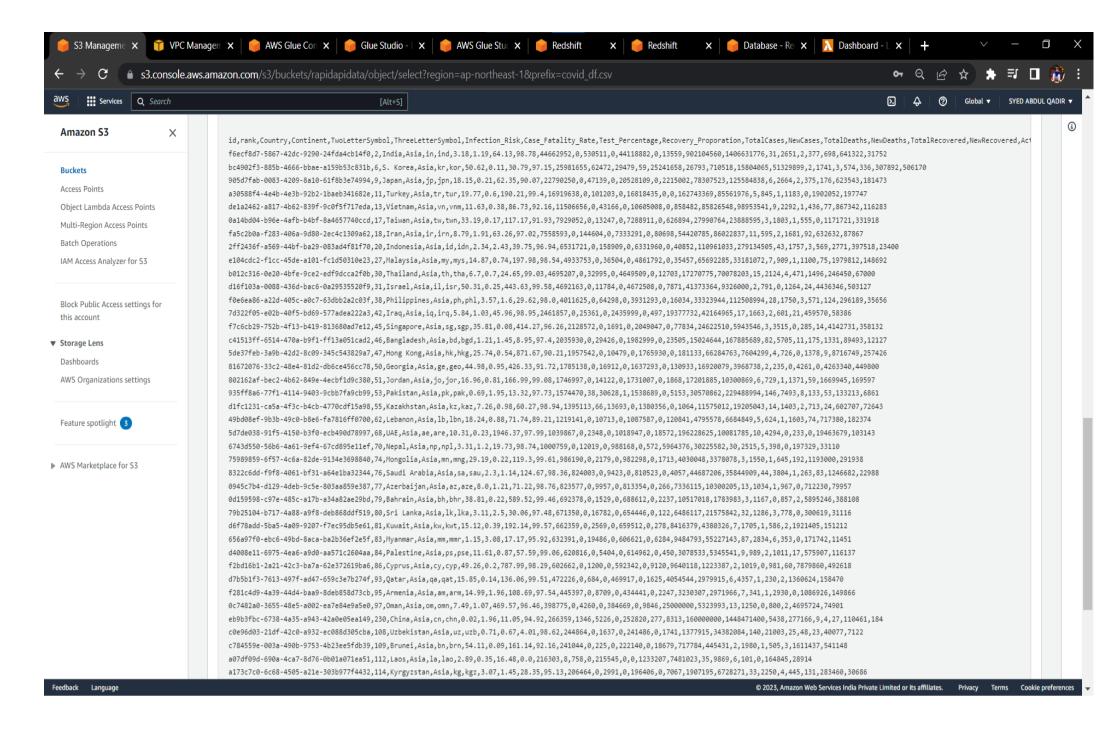
1. Create a AWS Lambda function to read from any open source API such https://rapidapi.com/ and store it into s3 bucket. S3 Manageme X | 1 VPC Managem X | AWS Glue Con X | Glue Studio - X | AWS Glue Stur X | Redshift × Redshift 🗙 🌔 Database - Re 🗴 🚺 rapidapidata1 🗴 ★ □ 🗦 C 🕯 ap-northeast-1.console.aws.amazon.com/lambda/home?region=ap-northeast-1#/functions/rapidapidata1?tab=configure Σ 4 **②** Services Q Search Tokyo ▼ SYED ABDUL QADIR ▼ \equiv € Lambda > Functions > rapidapidata1 rapidapidata1 Copy ARN Throttle **Actions** ▼ ▼ Function overview Info Description rapidapidata1 (2) Layers Last modified 22 minutes ago + Add destination EventBridge (CloudWatch Events) (2) Function ARN 🗇 arn:aws:lambda:ap-northeast-1:107838789361:function:rapidapidata1 + Add trigger Function URL Info Configuration General configuration Environment variables (1) Edit The environment variables below are encrypted at rest with the default Lambda service key. Triggers Permissions Value Key BUCKET_NAME rapidapidata Destinations Function URL © 2023, Amazon Web Services India Private Limited or its affiliates. Language 🌔 S3 Manageme 🗴 📅 VPC Managem 🗴 🌔 AWS Glue Con 🗴 🌔 Glue Studio - 🗀 🗴 🌔 AWS Glue Stuc 🗴 🜔 Redshift Database - Re 🗴 🚺 rapidapidata1 🗴 X Redshift × 🗦 🖰 🥚 ap-northeast-1.console.aws.amazon.com/lambda/home?region=ap-northeast-1#/functions/rapidapidata1?fullscreen=true&tab=code Q 🖻 🖈 🖈 🗖 🔲 📆 : Services Q Search Σ 4 0 Tokyo ▼ SYED ABDUL QADIR ▼ [Alt+S] Successfully updated the function rapidapidata1. File Edit Find View Go Tools Window Deploy Go to Anything (Ctrl-P) Execution results × (+) П lambda_function × import json
import os
import boto3
import requests
import pandas as pd
from pandas import DataFrame
from io import StringIO ▼ 📄 rapidapidata1 - / 🐞 🔻 lambda_function.py Ē 10 BUCKET_NAME=os.getenv("BUCKET_NAME") 12 DATA_SOURCE
13
14 headers = DATA_SOURCE_URL = "https://vaccovid-coronavirus-vaccine-and-treatment-tracker.p.rapidapi.com/api/npm-covid-data/asia" "X-RapidAPI-Key": "eee45f1fc9mshc173f58d922741bp1d3328jsn7a8891984067",
"X-RapidAPI-Host": "vaccovid-coronavirus-vaccine-and-treatment-tracker.p.rapidapi.com" print(event,context) url = DATA SOURCE URL data = requests.get(url, headers=headers)
covid_data = data.json() 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 covid_df = pd.DataFrame(covid_data, columns = [
'id',
'rank', 'Country',
'Continent',
'TwoLetterSymbol',
'ThreeLetterSymbol',
'Infection_Risk',
'Case_Fatality_Rate', 'Test_Percentage',
'Recovery_Proporation', 'TotalCases', 'NewCases',
'TotalDeaths', 'NewDeaths', 'TotalRecovered', NewRecovered', 'ActiveCases' 'TotalTests',
'Population', 45 46 47 'one_Caseevery_X_ppl',
'one_Deathevery_X_ppl', 58:43 Python Spaces: 4 🌣

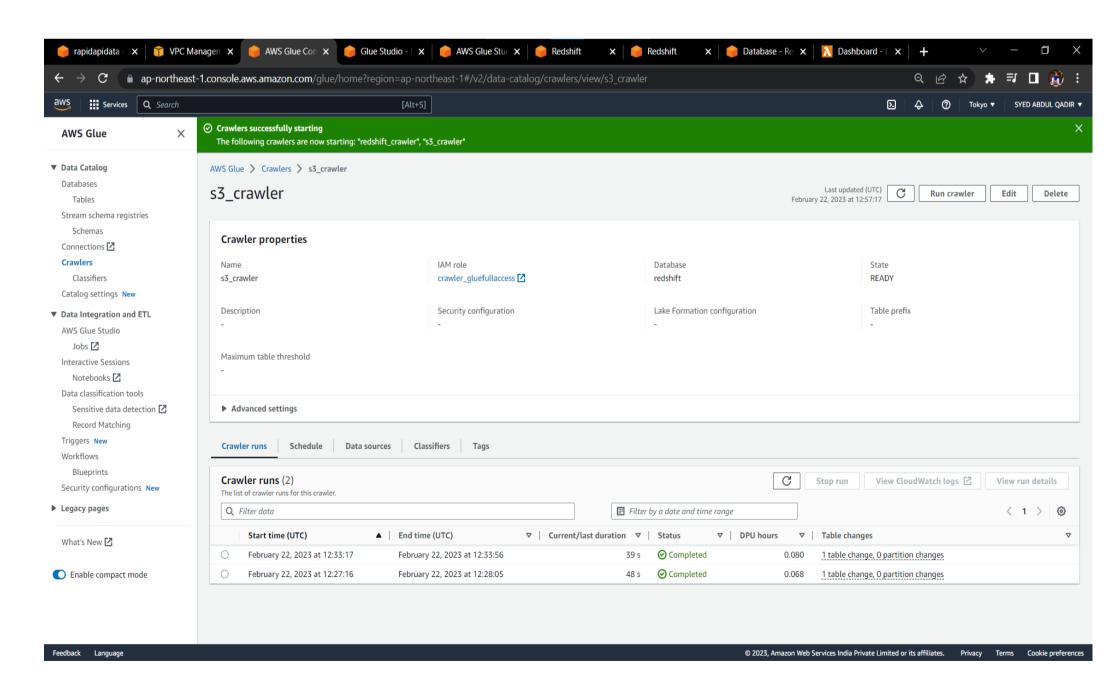
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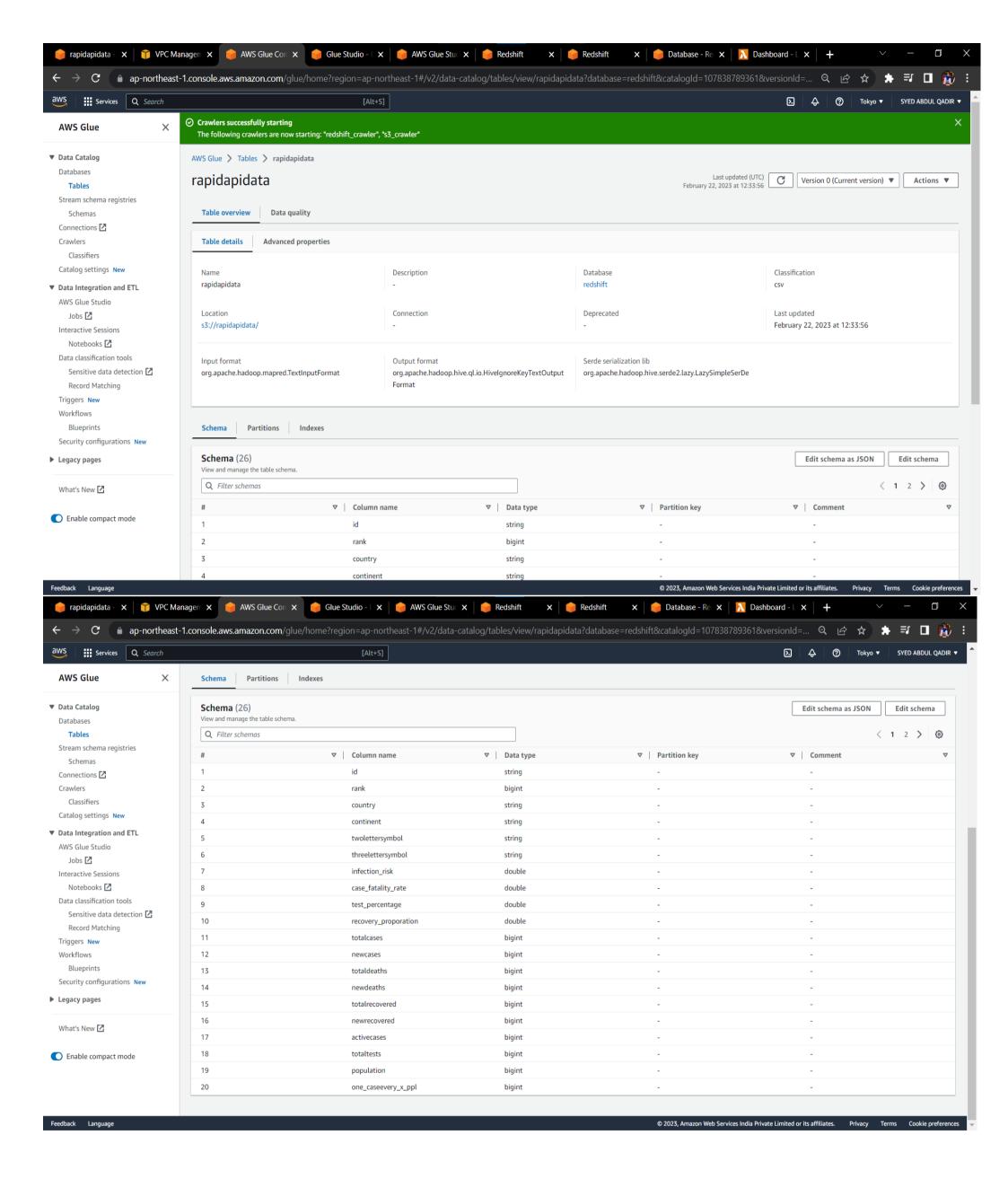
Feedback Language

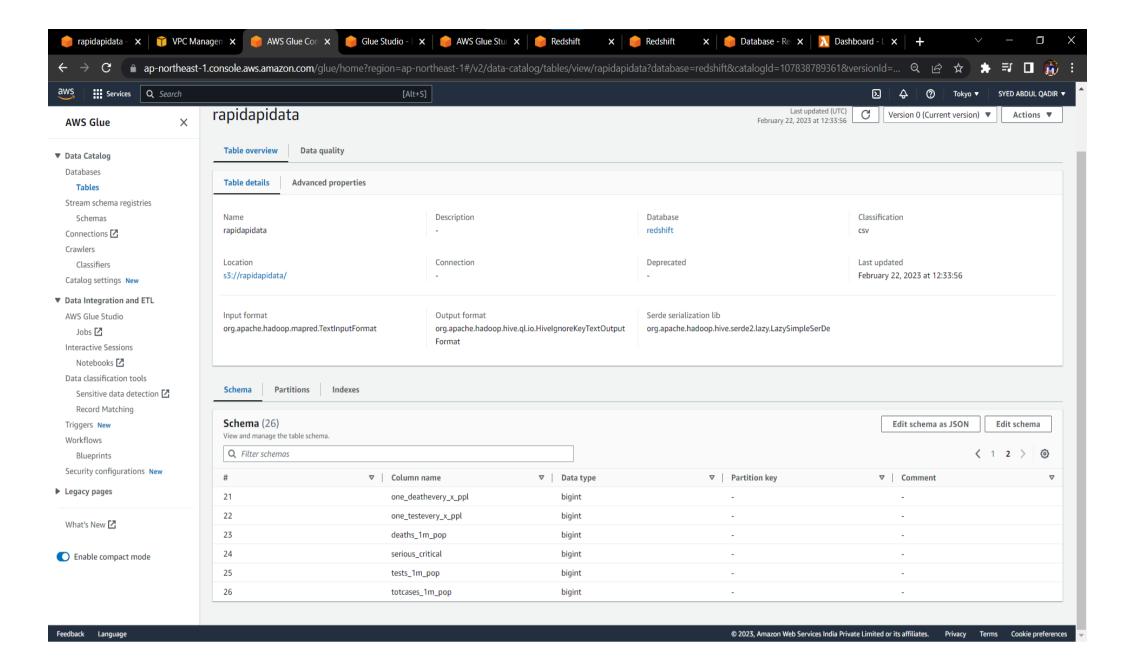




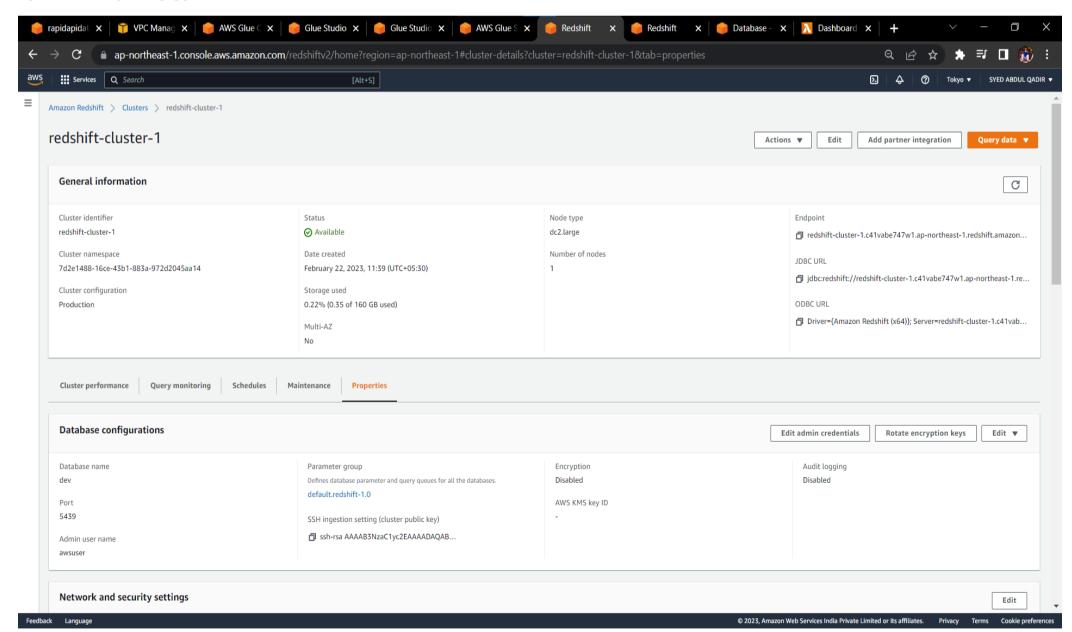
#CREATED CRAWLER FOR S3 DATA TO GET SCHEMA CATALOG IN TABLE



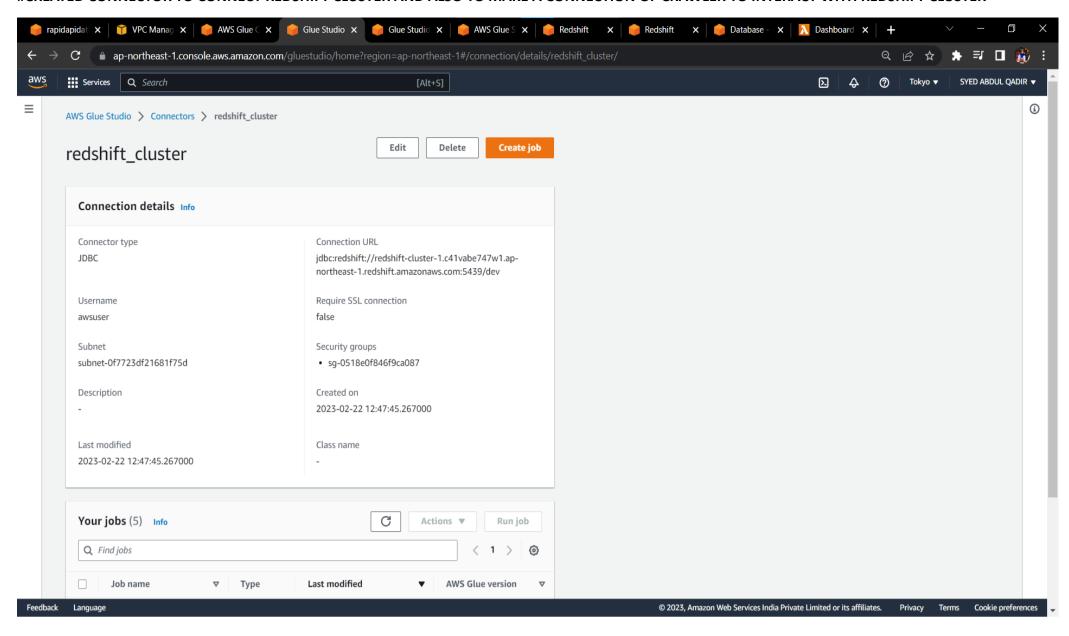




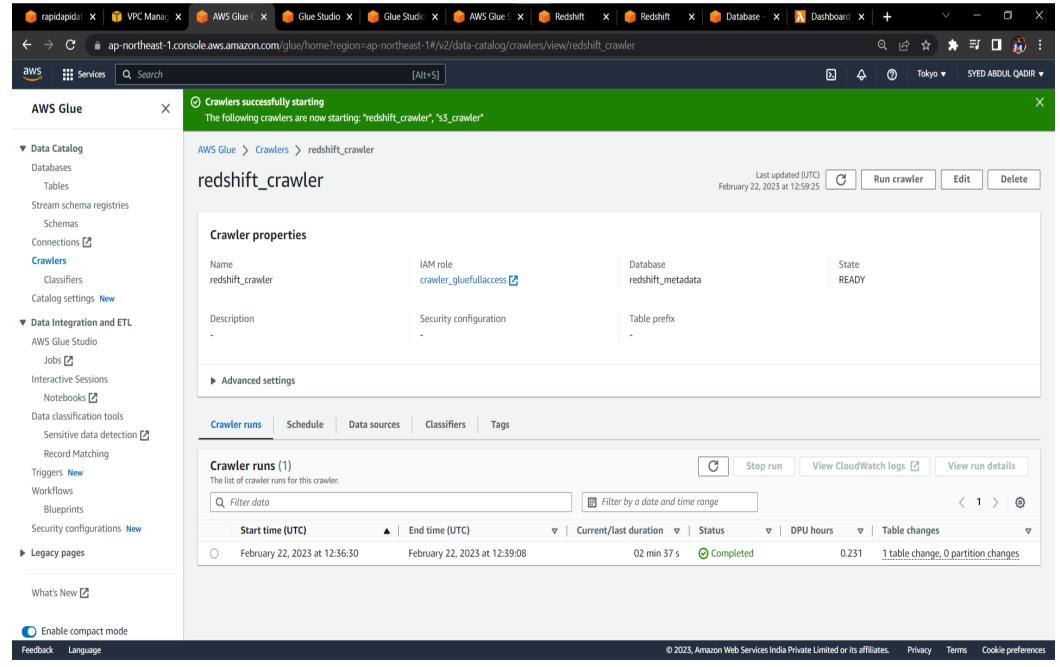
#CREATED REDSHIFT CLUSTER

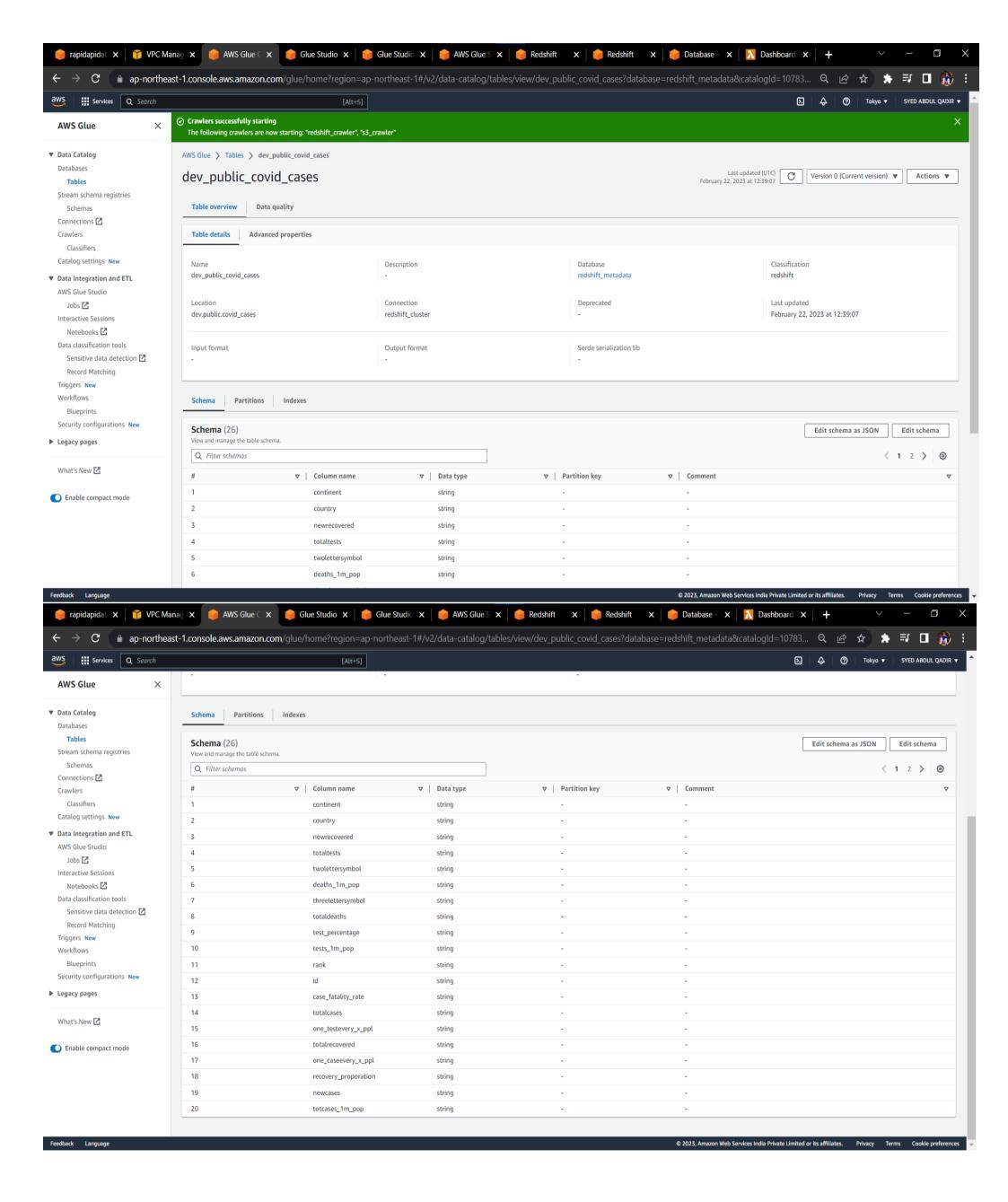


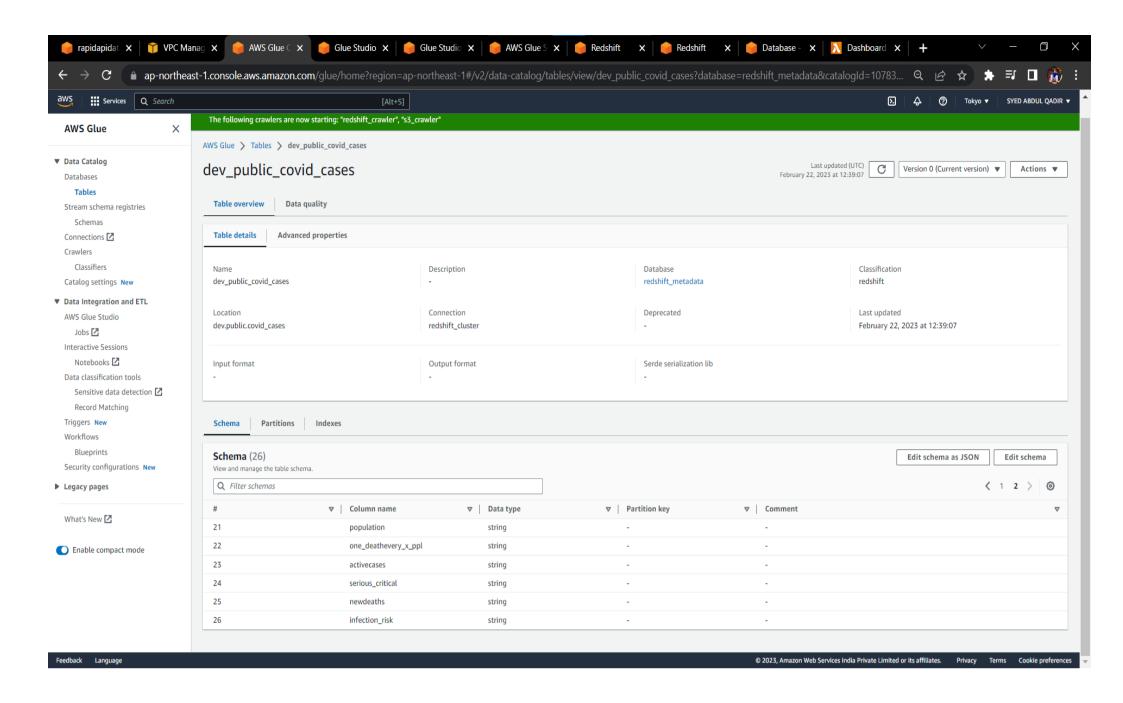
#CREATED CONNECTOR TO CONNECT REDSHIFT CLUSTER AND ALSO TO MAKE A CONNECTION OF CRAWLER TO INTERACT WITH REDSHIFT CLUSTER



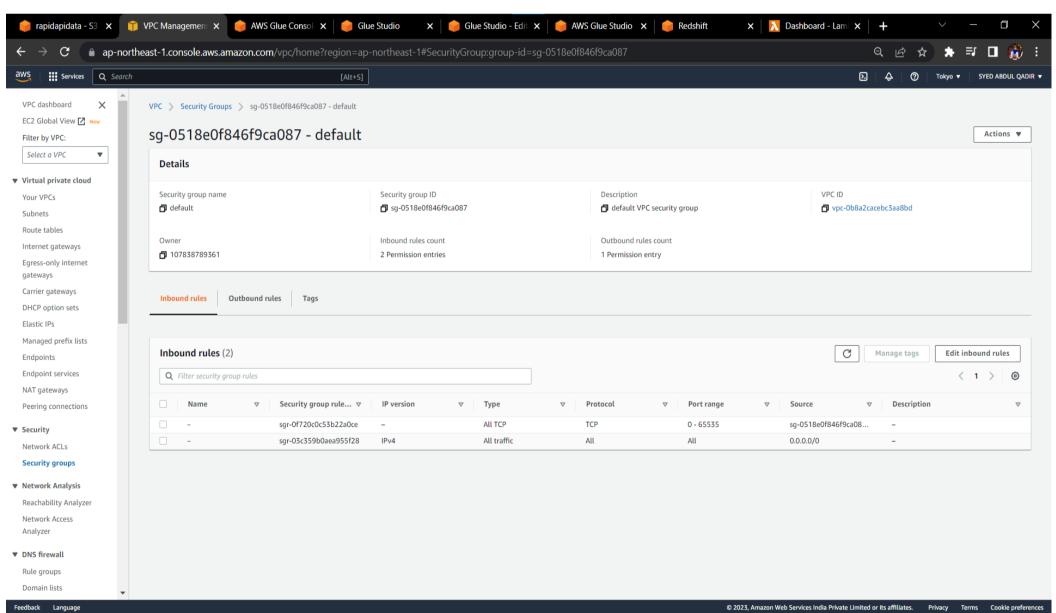
#CREATED CRAWLER TO INTERACT WITH REDSHIFT CLUSTER TO MAKE SHCEMA CATALOG IN CRAWLER



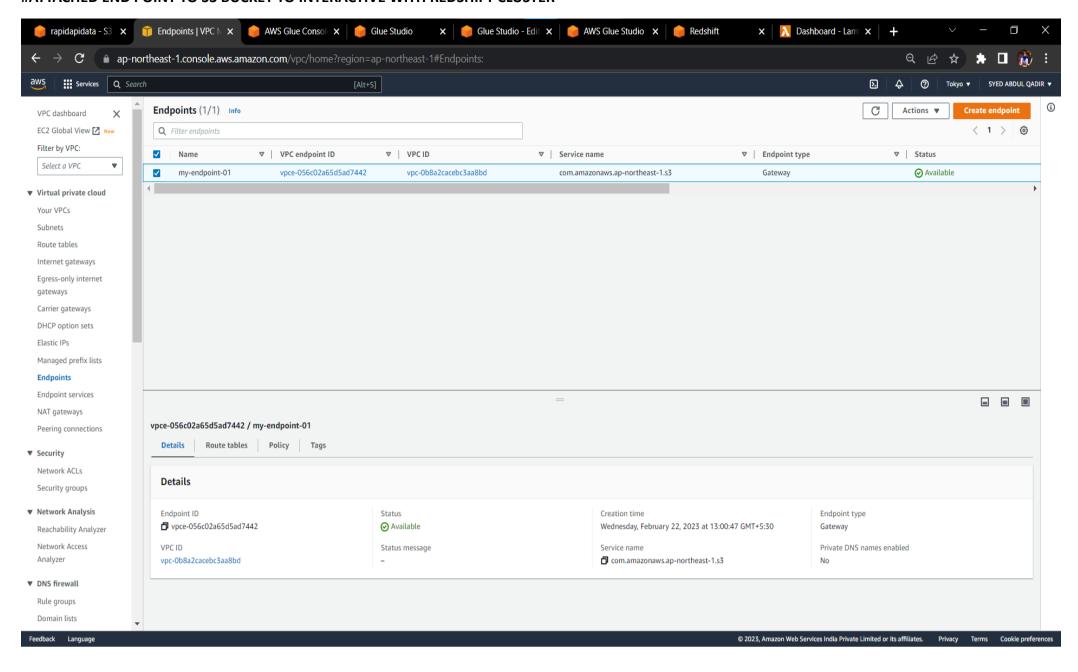




#FOR REDSHIFT CLUSTER SECURITY GROUP ID ATTACHED VPC

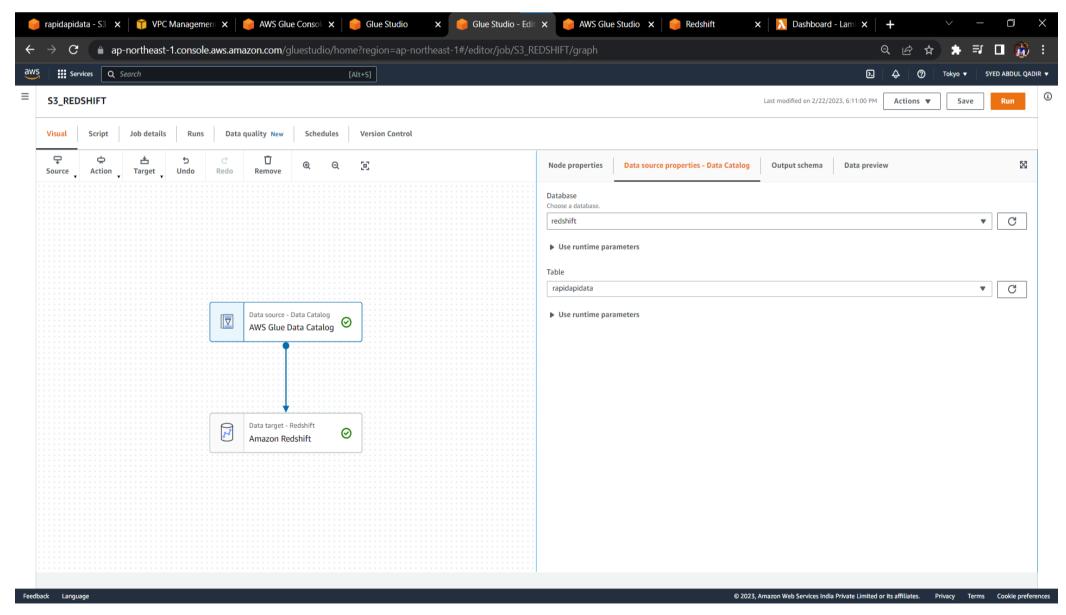


#ATTACHED END POINT TO S3 BUCKET TO INTERACTIVE WITH REDSHIFT CLUSTER

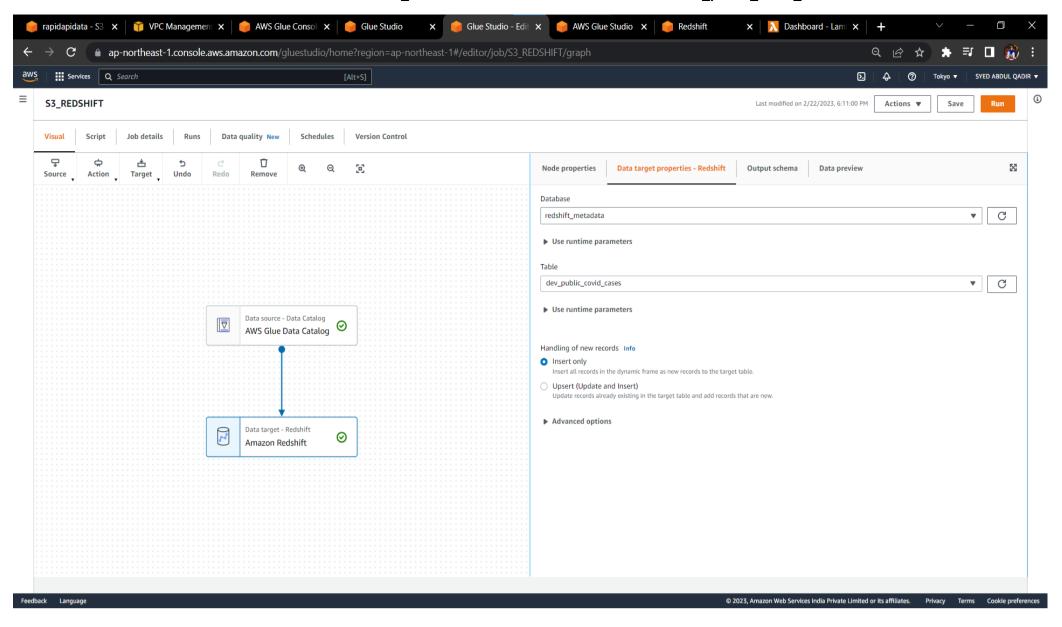


#CREATED GLUE JOB BY VISUAL, SOURCE AS GLUE DATA CATALOG, TARGET AS AMAZON REDSHIFT

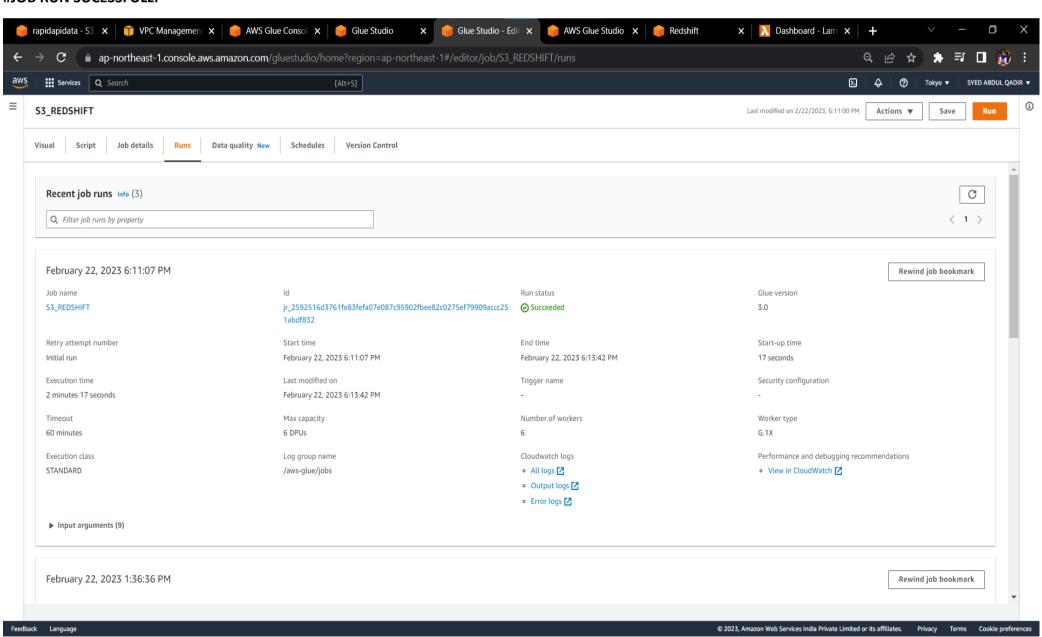
IN SOURCE SIDE CHOOSEN S3 DATABASE AS redshift AND CHOOSE TABLE CATALOG rapidapidata



IN TARGET SIDE CHOOSEN REDSHIFT DATABASE AS redshift_metadata AND CHOOSE TABLE CATALOG dev_public_covid_cases



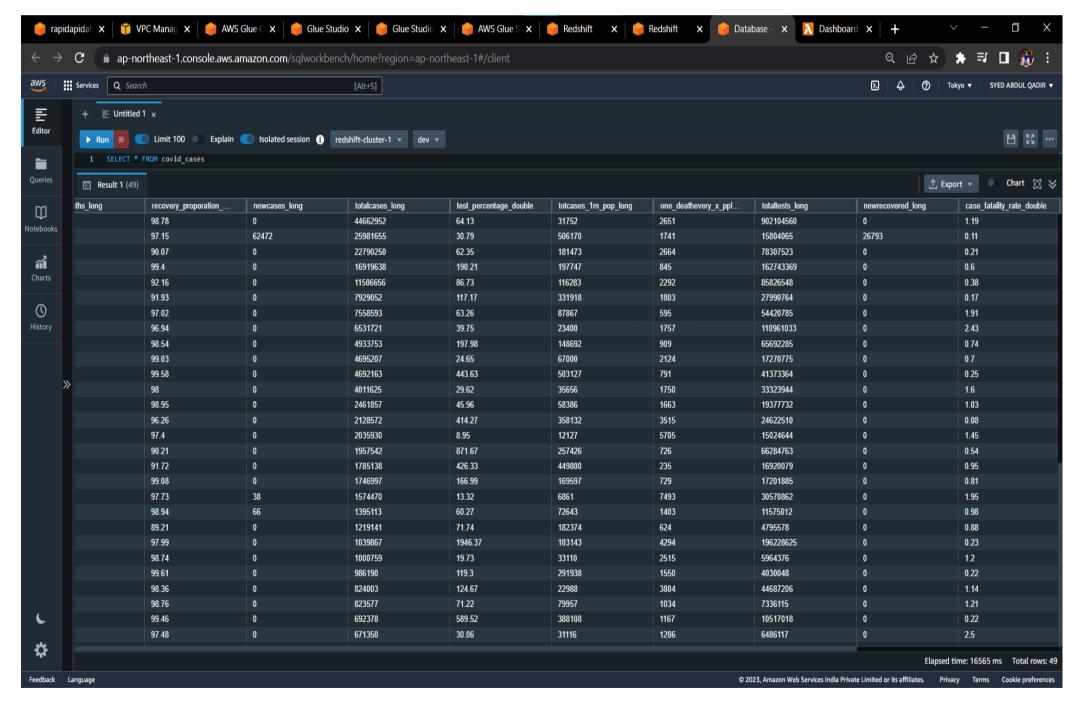
#JOB RUN SUCESSFULLY



#Schedule AWS Glue Job to move data from s3 to Redshift.

BEFORE DUMPING DATA INTO REDSHIFT
CREATED TABLE SCHEMA OF covid_cases AND INSERTED INTO dev DATABASE

CREATE TABLE covid_cases(id VARCHAR(100), rank VARCHAR(100), Country VARCHAR(100), Continent VARCHAR(100), TwoLetterSymbol VARCHAR(100), ThreeLetterSymbol VARCHAR(100), Infection_Risk VARCHAR(100), Case_Fatality_Rate VARCHAR(100), Test_Percentage VARCHAR(100), Recovery_Proporation VARCHAR(100), TotalCases VARCHAR(100), NewCases VARCHAR(100), TotalDeaths VARCHAR(100), NewDeaths VARCHAR(100), TotalRecovered VARCHAR(100), NewRecovered VARCHAR(100), ActiveCases VARCHAR(100), TotalTests VARCHAR(100), Population VARCHAR(100), one_Caseevery_X_ppl VARCHAR(100), one Deathevery X ppl VARCHAR(100), one_Testevery_X_ppl VARCHAR(100), Deaths_1M_pop VARCHAR(100), Serious_Critical VARCHAR(100), Tests_1M_Pop VARCHAR(100), TotCases_1M_Pop VARCHAR(100))



#BELOW POLICIES ARE ATTACHED FOR DUMPING DATA FROM S3 TO REDSHIFT 🍘 rapidapidata - S3 bud 🗴 🍵 AWS Glue Console 🛛 🐞 Glue Studio - Jobs 💢 🍵 Glue Studio - Editor 🗶 N Functions - Lambda Redshift X • us-east-1.console.aws.amazon.com/iamv2/home?region=ap-northeast-1#/roles/details/crawler_gluefullaccess?section=permissions aws Services **Q** Search [Alt+S] Σ 4 0 SYED ABDUL QADIR ▼ **Identity and Access** × IAM > Roles > crawler_gluefullaccess Management (IAM) Delete crawler_gluefullaccess Allows Glue to call AWS services on your behalf. Q Search IAM Summary Edit Dashboard **ARN** Access management Creation date February 21, 2023, 18:11 (UTC+05:30) arn:aws:iam::107838789361:role/crawler_gluefullaccess User groups Users Last activity Maximum session duration Roles 3 hours ago 1 hour **Policies** Identity providers **Permissions** Trust relationships Tags **Access Advisor** Revoke sessions Account settings **▼** Access reports Permissions policies (5) Info Access analyzer Add permissions **Simulate** Remove You can attach up to 10 managed policies. Archive rules **Analyzers** Q Filter policies by property or policy name and press enter. 0 Settings Policy name 🗗 Type Description Credential report Organization activity MazonS3FullAccess AWS managed Provides full access to all bucl Service control policies (SCPs) © 2023, Amazon Web Services India Private Limited or its affiliates. Feedback Language Privacy Cookie preferences 🍵 rapidapidata - S3 bud 🗴 📋 AWS Glue Console 💢 📦 Glue Studio - Jobs 💢 🍵 Glue Studio - Editor 🗶 | IAM Management Co X X Number of Functions - Lambda X ★ □ us-east-1.console.aws.amazon.com/iamv2/home?region=ap-northeast-1#/roles/details/crawler_gluefullaccess?section=permissions aws Services **Q** Search [Alt+S] Σ 4 @ SYED ABDUL QADIR ▼ Global ▼ 3 hours ago 1 hour **Identity and Access** × Management (IAM) **Permissions** Trust relationships **Access Advisor** Revoke sessions Tags Q Search IAM Permissions policies (5) Info Dashboard **Simulate** Remove Add permissions \blacktriangledown You can attach up to 10 managed policies. ▼ Access management Q Filter policies by property or policy name and press enter. < 1 > 0 User groups Users Description Type Roles AmazonS3FullAccess AWS managed Provides full access to all buck **Policies** Identity providers CloudWatchFullAccess AWS managed Provides full access to CloudV Account settings AWS managed Provides full access to Amazo **▼** Access reports AdministratorAccess AWS managed - job function Provides full access to AWS so Access analyzer ⊕ AWSGlueConsoleFullAccess Provides full access to AWS G AWS managed Archive rules Analyzers Settings Permissions boundary - (not set) Info Credential report Set a permissions boundary to control the maximum permissions this role can have. This is not a common setting but can be used to delegate permission management to others. Organization activity Service control policies (SCPs)

Feedback Language

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