

1. Create a AWS Lambda function to read from any open source API such <https://rapidapi.com/> and store it into s3 bucket.

ap-northeast-1.console.aws.amazon.com/lambda/home?region=ap-northeast-1#/functions/rapidapidata1?tab=configure

Services

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Lambda > Functions > rapidapidata1

rapidapidata1

Throttle Copy ARN Actions

Function overview

rapidapidata1

Layers (2)

EventBridge (CloudWatch Events) (2)

Add trigger

Add destination

Description

-

Last modified

22 minutes ago

Function ARN

arn:aws:lambda:ap-northeast-1:107838789361:function:rapidapidata1

Function URL

Info

Code

Test

Monitor

Configuration

Aliases

Versions

General configuration

Triggers

Permissions

Destinations

Function URL

Environment variables (1)

Edit

The environment variables below are encrypted at rest with the default Lambda service key.

Key	Value
BUCKET_NAME	rapidapidata

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Language

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Successfully updated the function rapidapidata1.

File Edit Find View Go Tools Window

Test

Deploy

Go to Anything (Ctrl-P)

Environment

rapidapidata1 - /

lambda_function.py

Execution results

```
1 import json
2 import os
3 import boto3
4 import requests
5 import pandas as pd
6 from pandas import DataFrame
7 from io import StringIO
8
9
10 BUCKET_NAME=os.getenv("BUCKET_NAME")
11
12 DATA_SOURCE_URL = "https://vaccovid-coronavirus-vaccine-and-treatment-tracker.p.rapidapi.com/api/npm-covid-data/asia"
13
14 headers = {
15     "X-RapidAPI-Key": "eee45f1fc9mshc173f58d922741bp1d3328jsn7a8891984067",
16     "X-RapidAPI-Host": "vaccovid-coronavirus-vaccine-and-treatment-tracker.p.rapidapi.com"
17 }
18
19
20 def lambda_handler(event, context):
21     print(event,context)
22
23     url = DATA_SOURCE_URL
24     data = requests.get(url, headers=headers)
25     covid_data = data.json()
26
27     covid_df = pd.DataFrame(covid_data, columns = [
28         'id',
29         'rank',
30         'Country',
31         'Continent',
32         'TwoLetterSymbol',
33         'ThreeLetterSymbol',
34         'Infection_Risk',
35         'Case_Fatality_Rate',
36         'Test_Percentage',
37         'Recovery_Proportion',
38         'TotalCases',
39         'NewCases',
40         'TotalDeaths',
41         'NewDeaths',
42         'TotalRecovered',
43         'NewRecovered',
44         'ActiveCases',
45         'TotalTests',
46         'Population',
47         'one_Caseevery_X_ppl',
48         'one_Deathevery_X_ppl',
```

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ap-northeast-1.console.aws.amazon.com/lambda/home?region=ap-northeast-1#/layers/pandas_layer/versions/1?tab=versions

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AWS Lambda

DashboardApplicationsFunctions

Additional resourcesCode signing configurationsLayerspandas_layerReplicas

Related AWS resourcesStep Functions state machines

Lambda > Layers > pandas_layer

ARN - arn:aws:lambda:ap-northeast-1:107838789361:layer:pandas_layer:1

pandas_layer

DeleteDownloadCreate version

Version details

Version 1	Description Lambda layer for pandas module	Created 2 days ago
License -	Compatible runtimes python3.7	Compatible architectures x86_64

Versions

Functions using this version

All versions

Version	Version ARN	Description
1	arn:aws:lambda:ap-northeast-1:107838789361:layer:pandas_layer:1	Lambda layer for pandas module

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rapidapidata - xVPC ManagemexAWS Glue ConxGlue Studio - | xAWS Glue StudxRedshiftxRedshiftxDatabase - Rexpandas_layer: xDashboard - | x

s3.console.aws.amazon.com/s3/buckets/rapidapidata?region=ap-northeast-1&tab=objects

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Amazon S3

BucketsAccess PointsObject Lambda Access PointsMulti-Region Access PointsBatch OperationsIAM Access Analyzer for S3

Storage LensDashboardsAWS Organizations settings

Feature spotlight 3

AWS Marketplace for S3

Amazon S3 > Buckets > rapidapidata

rapidapidata Info

Objects

PropertiesPermissionsMetricsManagementAccess Points

Objects (1)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Copy S3 URICopy URLDownloadOpen>DeleteActions

Create folderUpload

Find objects by prefix

	Name	Type	Last modified	Size	Storage class
	covid_df.csv	csv	February 22, 2023, 18:25:04 (UTC+05:30)	8.1 KB	Standard

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s3.console.aws.amazon.com/s3/buckets/rapidapidata/object/select?region=ap-northeast-1&prefix=covid_df.csv

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Amazon S3

Buckets

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

IAM Access Analyzer for S3

Storage Lens

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Feature spotlight

AWS Marketplace for S3

id,rank,Country,Continent,TwoLetterSymbol,ThreeLetterSymbol,Infection_Risk,Case_Fatality_Rate,Test_Percentage,Recovery_Proportion,TotalCases,NewCases,TotalDeaths,NewDeaths,TotalRecovered,NewRecovered,Act

6ecf8d7-5867-42dc-9290-24fda4cb14f0,2,India,Asia,in,ind,3.18,1.19,64.13,98.78,44662952,0,530511,0,44118882,0,13559,902104560,1406631776,31,2651,2,377,698,641322,31752

bc4902f3-885b-4666-bbae-a159b53c831b,6,S. Korea,Asia,kr,kor,50.62,0.11,30.79,97.15,25981655,62472,29479,59,25241658,26793,710518,15804065,51329899,2,1741,3,574,336,307892,506170

905d7fab-0083-4209-8a10-61f8b3e74994,9,Japan,Asia,jp,jpn,18.15,0.21,62.35,90.07,22790250,0,47139,0,20528109,0,2215002,78307523,125584838,6,2664,2,375,176,623543,181473

a30588f4-4e4b-4e3b-92b2-1baeb341682e,11,Turkey,Asia,tr,tur,19.77,0.6,190.21,99.4,16919638,0,101203,0,16818435,0,0,162743369,85561976,5,845,1,1183,0,1902052,197747

de1a2462-a817-4b62-839f-9c0f5f717eda,13,Vietnam,Asia,vn,vnm,11.63,0.38,86.73,92.16,11506656,0,43166,0,10605008,0,850482,85826548,98953541,9,2292,1,436,77,867342,116283

0a14bd04-b96e-4afb-8a4657740ccd,17,Taiwan,Asia,tw,twn,33.19,0.17,117.17,91.93,7929052,0,13247,0,7288911,0,626894,27990764,23888595,3,1803,1,555,0,1171721,331918

fa5c2b0a-f283-406a-9d80-2ec4c1309a62,18,Iran,Asia,ir,irn,8.79,1.91,63.26,97.02,7558593,0,144604,0,7333291,0,80698,54420785,86022837,11,595,2,1681,92,632632,87867

2ff2436f-a569-44bf-ba29-083ad4f81f70,20,Indonesia,Asia,id,idn,2.34,2.43,39.75,96.94,6531721,0,158909,0,6331960,0,40852,110961033,279134505,43,1757,3,569,2771,397518,23400

e104cdc2-f1cc-45de-a101-fc1d50310e23,27,Malaysia,Asia,my,mys,14.87,0.74,197.98,98.54,4933753,0,36504,0,4861792,0,35457,65692285,33181072,7,909,1,1100,75,1979812,148692

b012c316-0e20-4bfe-9ce2-edf9dcca2f0b,30,Thailand,Asia,th,tha,6.7,0.7,24.65,99.03,4695207,0,32995,0,4649509,0,12703,17270775,70078203,15,2124,4,471,1496,246450,67000

d16f103a-0088-436d-bac6-0a29535520f9,31,Israel,Asia,il,ISR,50.31,0.25,443.63,99.58,4692163,0,11784,0,4672508,0,7871,41373364,9326000,2,791,0,1264,24,4436346,503127

f0e6ea86-a22d-405c-a0c7-63dbb2a2c03f,38,Philippines,Asia,ph,phl,3.57,1.6,29.62,98.0,4011625,0,64298,0,3931293,0,16034,33323944,112508994,28,1750,3,571,124,296189,35656

7d322f05-e02b-40f5-bd69-577adea222a3,42,Iraq,Asia,iq,irq,5.84,1.03,45.96,98.95,2461857,0,25361,0,2435999,0,497,19377732,42164965,17,1663,2,601,21,459570,58386

f7c6cb29-752b-4f13-b419-813680ad7e12,45,Singapore,Asia,sg,sgp,35.81,0.08,414.27,96.26,2128572,0,1691,0,2049047,0,77834,24622510,5943546,3,3515,0,285,14,4142731,358132

c41513ff-6514-470a-b9f1-ff13a051cad2,46,Bangladesh,Asia,bd,bgd,1.21,1.45,8.95,97.4,2035930,0,29426,0,1982999,0,23505,15024644,167885689,82,5705,11,175,1331,89493,12127

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81672076-33c2-48e4-81d2-dbb6ce456cc78,50,Georgia,Asia,ge,geo,44.98,0.95,426.33,91.72,1785138,0,16912,0,1637293,0,130933,16920079,3968738,2,235,0,4261,0,4263340,449800

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935ff8a6-77f1-4114-9403-9cbb7fa9cb99,53,Pakistan,Asia,pk,pak,0.69,1.95,13.32,97.73,1574470,38,30628,1,1538689,0,5153,30570862,229488994,146,7493,8,133,53,133213,6861

d1fc1231-ca5a-4f3c-b4cb-4770cdf15a98,55,Kazakhstan,Asia,kz,kaz,7.26,0.98,60.27,98.94,1395113,66,13693,0,1380356,0,1064,11575012,19205043,14,1403,2,713,24,602707,72643

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5d7de038-91f5-4150-b3f0-ecb490d78997,68,UAE,Asia,ae,are,10.31,0.23,1946.37,97.99,1039867,0,2348,0,1018947,0,18572,196228625,10081785,10,4294,0,233,0,19463679,103143

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75989859-6f57-4c6a-82de-9134e3698840,74,Mongolia,Asia,mn,mng,29.19,0.22,119.3,99.61,986190,0,2179,0,982298,0,1713,4030048,3378078,3,1550,1,645,192,1193000,291938

8322c6dd-f9f8-4061-bf31-a64e1ba32344,76,Saudi Arabia,Asia,sa,sau,2.3,1.14,124.67,98.36,824003,0,9423,0,810523,0,4057,44687206,35844909,44,3804,1,263,83,1246682,22988

0945c7b4-d129-4deb-9c5e-803aa859e387,77,Azerbaijan,Asia,az,aze,8.0,1.21,71.22,98.76,823577,0,9957,0,813354,0,266,7336115,10300205,13,1034,1,967,0,712230,79957

0d159598-c97e-485c-a17b-a34a82ae29bd,79,Bahrain,Asia,bh,bhr,38.81,0.22,589.52,99.46,692378,0,1529,0,688612,0,2237,10517018,1783983,3,1167,0,857,2,5895246,388108

79b25104-b717-4a88-a9f8-deb868ddf519,80,Sri Lanka,Asia,lk,lka,3.11,2.5,30.06,97.48,671350,0,16782,0,654446,0,122,6486117,21575842,32,1286,3,778,0,300619,31116

d6f78add-5ba5-4a09-9207-f7ec95db5e61,81,Kuwait,Asia,kw,kwt,15.12,0.39,192.14,99.57,662359,0,2569,0,659512,0,278,8416379,4380326,7,1705,1,586,2,1921405,151212

656a97f0-ebc6-49bd-8aca-ba2b36ef2e5f,83,Myanmar,Asia,mm,mmr,1.15,3.08,17.17,95.92,632391,0,19486,0,606621,0,6284,9484793,55227143,87,2834,6,353,0,171742,11451

d4008e11-6975-4ea6-a9d0-aa571c2604aa,84,Palestine,Asia,ps,pse,11.61,0.87,57.59,99.06,620816,0,5404,0,614962,0,450,3078533,5345541,9,989,2,1011,17,575907,116137

f2bd16b1-2a21-42c3-ba7a-62e372619ba6,86,Cyprus,Asia,cy,cyp,49.26,0.2,787.99,98.29,602662,0,1200,0,592342,0,9120,9640118,1223387,2,1019,0,981,60,7879860,492618

d7b5b1f3-7613-497f-ad47-659c3e7b274f,93,Qatar,Asia,qa,qat,15.85,0.14,136.06,99.51,472226,0,684,0,469917,0,1625,4054544,2979915,6,4357,1,230,2,1360624,158470

f281c4d9-4a39-44d4-baa9-8deb858d73cb,95,Armenia,Asia,am,arm,14.99,1.96,108.69,97.54,445397,0,8709,0,434441,0,2247,3230307,2971966,7,341,1,2930,0,1086926,149866

0c7482a0-3655-48e5-a002-ea7e84e9a5e0,97,Oman,Asia,om,omn,7.49,1.07,469.57,96.46,398775,0,4260,0,384669,0,9846,25000000,5323993,13,1250,0,800,2,4695724,74901

eb9b3fbc-6738-4a35-a943-42a0e05ea149,230,China,Asia,cn,chn,0.02,1.96,11.05,94.92,266359,1346,5226,0,252820,277,8313,160000000,1448471400,5438,277166,9,4,27,110461,184

c0e96d03-21df-42c0-a932-ec088d305cba,108,Uzbekistan,Asia,uz,uzb,0.71,0.67,4.01,98.62,244864,0,1637,0,241486,0,1741,1377915,34382084,140,21003,25,48,23,40077,7122

c784559e-003a-490b-9753-4b23ee5fdb39,109,Brunei,Asia,bn,brn,54.11,0.09,161.14,92.16,241044,0,225,0,222140,0,18679,717784,445431,2,1980,1,505,3,1611437,541148

a07df09d-690a-4ca7-8d76-0b01a071ea51,112,Laos,Asia,la,lao,2.89,0.35,16.48,0.0,216303,8,758,0,215545,0,0,1233207,7481023,35,9869,6,101,0,164845,28914

a173c7c0-6c68-4505-a21e-303b977f4432,114,Kyrgyzstan,Asia,kg,kgz,3.07,1.45,28.35,95.13,206464,0,2991,0,196406,0,7067,1907195,6728271,33,2250,4,445,131,283460,30686

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

rapidapidataVPC ManagAWS Glue ConGlue Studio - | AWS Glue StudRedshiftRedshiftDatabase - ReDashboard - L

ap-northeast-1.console.aws.amazon.com/glue/home?region=ap-northeast-1#/v2/data-catalog/crawlers/view/s3_crawler

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AWS Glue

Crawlers successfully starting

The following crawlers are now starting: "redshift_crawler", "s3_crawler"

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AWS Glue > Crawlers > s3_crawler

s3_crawler

Last updated (UTC)
February 22, 2023 at 12:57:17

Run crawlerEditDelete

Crawler properties

Name

s3_crawler

IAM role

crawler_gluefullaccess

Database

redshift

State

READY

Description

-

Security configuration

-

Lake Formation configuration

-

Table prefix

-

Maximum table threshold

-

Advanced settings

Crawler runs

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Crawler runs (2)

The list of crawler runs for this crawler.

Filter dataFilter by a date and time range

Start time (UTC)

End time (UTC)

Current/last duration

Status

DPU hours

Table changes

February 22, 2023 at 12:33:17

February 22, 2023 at 12:33:56

39 s

Completed

0.080

1 table change, 0 partition changes

February 22, 2023 at 12:27:16

February 22, 2023 at 12:28:05

48 s

Completed

0.068

1 table change, 0 partition changes

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ap-northeast-1.console.aws.amazon.com/glue/home?region=ap-northeast-1#/v2/data-catalog/tables/view/rapidapidata?database=redshift&catalogId=107838789361&versionId=...

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What's New

Enable compact mode

🔔 Crawlers successfully starting

The following crawlers are now starting: "redshift_crawler", "s3_crawler"

AWS Glue

Tables

rapidapidata

rapidapidata

Last updated (UTC)
February 22, 2023 at 12:33:56

Version 0 (Current version)

Actions

Table overview

Data quality

Table details

Advanced properties

Name	rapidapidata	Description	-	Database	redshift	Classification	csv
Location	s3://rapidapidata/	Connection	-	Deprecated	-	Last updated	February 22, 2023 at 12:33:56
Input format	org.apache.hadoop.mapred.TextInputFormat	Output format	org.apache.hadoop.hive.q1.io.HiveIgnoreKeyTextOutputFormat	Serde serialization lib	org.apache.hadoop.hive.serde2.lazy.LazySimpleSerDe		

Schema

Partitions

Indexes

Schema (26)

View and manage the table schema.

Filter schemas

12

#	Column name	Data type	Partition key	Comment
1	id	string	-	-
2	rank	bigint	-	-
3	country	string	-	-
4	continent	string	-	-

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View and manage the table schema.

Filter schemas

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#	Column name	Data type	Partition key	Comment
1	id	string	-	-
2	rank	bigint	-	-
3	country	string	-	-
4	continent	string	-	-
5	twolettersymbol	string	-	-
6	threelettersymbol	string	-	-
7	infection_risk	double	-	-
8	case_fatality_rate	double	-	-
9	test_percentage	double	-	-
10	recovery_proporation	double	-	-
11	totalcases	bigint	-	-
12	newcases	bigint	-	-
13	totaldeaths	bigint	-	-
14	newdeaths	bigint	-	-
15	totalrecovered	bigint	-	-
16	newrecovered	bigint	-	-
17	activecases	bigint	-	-
18	totaltests	bigint	-	-
19	population	bigint	-	-
20	one_caseevery_x_ppl	bigint	-	-

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Redshift

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Table detailsAdvanced properties

Name
rapidapidata

Description
-

Database
redshift

Classification
csv

Location
s3://rapidapidata/

Connection
-

Deprecated
-

Last updated
February 22, 2023 at 12:33:56

Input format
org.apache.hadoop.mapred.TextInputFormat

Output format
org.apache.hadoop.hive.qLio.HiveIgnoreKeyTextOutputFormat

Serde serialization lib
org.apache.hadoop.hive.serde2.lazy.LazySimpleSerDe

SchemaPartitionsIndexes

Schema (26)
View and manage the table schema.

Filter schemas

12

Settings

#	Column name	Data type	Partition key	Comment
21	one_deathevery_x_ppl	bigint	-	-
22	one_testevery_x_ppl	bigint	-	-
23	deaths_1m_pop	bigint	-	-
24	serious_critical	bigint	-	-
25	tests_1m_pop	bigint	-	-
26	totcases_1m_pop	bigint	-	-

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#CREATED REDSHIFT CLUSTER

rapidapidata

VPC Manager

AWS Glue Console

Glue Studio

Glue Studio

AWS Glue Studio

Redshift

Redshift

Database - Redshift

Dashboard - Redshift

ap-northeast-1.console.aws.amazon.com/redshiftv2/home?region=ap-northeast-1#cluster-details?cluster=redshift-cluster-1&tab=properties

ServicesSearch[Alt+S]

TokyoSYED ABDUL QADIR

Amazon Redshift

Clusters

redshift-cluster-1

redshift-cluster-1

ActionsEditAdd partner integrationQuery data

General information

Cluster identifier
redshift-cluster-1

Cluster namespace
7d2e1488-16ce-43b1-883a-972d2045aa14

Cluster configuration
Production

Status
Available

Date created
February 22, 2023, 11:39 (UTC+05:30)

Storage used
0.22% (0.35 of 160 GB used)

Multi-AZ
No

Node type
dc2.large

Number of nodes
1

Endpoint
redshift-cluster-1.c41vabe747w1.ap-northeast-1.redshift.amazon...

JDBC URL
jdbc:redshift://redshift-cluster-1.c41vabe747w1.ap-northeast-1.re...

ODBC URL
Driver={Amazon Redshift (x64)}; Server=redshift-cluster-1.c41vab...

Cluster performanceQuery monitoringSchedulesMaintenanceProperties

Database configurations

Edit admin credentialsRotate encryption keysEdit

Database name
dev

Port
5439

Admin user name
awsuser

Parameter group
Defines database parameter and query queues for all the databases.
default.redshift-1.0

SSH ingestion setting (cluster public key)
ssh-rsa AAAAB3NzaC1yc2EAAAADAQAB...

Encryption
Disabled

AWS KMS key ID
-

Audit logging
Disabled

Network and security settings

Edit

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

rapidapi

VPC Manag

AWS Glue

Glue Studio

Glue Studio

AWS Glue S

Redshift

Redshift

Database

Dashboard

ap-northeast-1.console.aws.amazon.com/gluestudio/home?region=ap-northeast-1#/connection/details/redshift_cluster/

ServicesSearch[Alt+S]

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redshift_cluster

EditDeleteCreate job

Connection detailsInfo

Connector type

JDBC

Username

awsuser

Subnet

subnet-0f7723df21681f75d

Description

-

Last modified

2023-02-22 12:47:45.267000

Connection URL

jdbc:redshift://redshift-cluster-1.c41vabe747w1.ap-northeast-1.redshift.amazonaws.com:5439/dev

Require SSL connection

false

Security groups

sg-0518e0f846f9ca087

Created on

2023-02-22 12:47:45.267000

Class name

-

Your jobs (5)Info

Find jobs

<1>

Job name

Type

Last modified

AWS Glue version

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

rapidapi

VPC Manag

AWS Glue

Glue Studio

Glue Studio

AWS Glue S

Redshift

Redshift

Database

Dashboard

ap-northeast-1.console.aws.amazon.com/glue/home?region=ap-northeast-1#/v2/data-catalog/crawlers/view/redshift_crawler

ServicesSearch[Alt+S]

TokyoSYED ABDUL QADIR

AWS Glue

Data Catalog

Databases

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Stream schema registries

Schemas

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Crawlers

Classifiers

Catalog settings

Data Integration and ETL

AWS Glue Studio

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Sensitive data detection

Record Matching

Triggers

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Security configurations

Legacy pages

What's New

Enable compact mode

Crawlers successfully starting

The following crawlers are now starting: "redshift_crawler", "s3_crawler"

redshift_crawler

Last updated (UTC)
February 22, 2023 at 12:59:25

Run crawlerEditDelete

Crawler properties

Name

redshift_crawler

IAM role

crawler_gluefullaccess

Database

redshift_metadata

State

READY

Description

-

Security configuration

-

Table prefix

-

Advanced settings

Crawler runs

Schedule

Data sources

Classifiers

Tags

Crawler runs (1)

The list of crawler runs for this crawler.

Filter data

Filter by a date and time range

Start time (UTC)

End time (UTC)

Current/last duration

Status

DPU hours

Table changes

February 22, 2023 at 12:36:30

February 22, 2023 at 12:39:08

02 min 37 s

Completed

0.231

1 table change, 0 partition changes

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AWS Glue

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Glue Studio

AWS Glue S

Redshift

Redshift

Database

Dashboard

ap-northeast-1.console.aws.amazon.com/glue/home?region=ap-northeast-1#/v2/data-catalog/tables/view/dev_public_covid_cases?database=redshift_metadata&catalogId=10783...

ServicesSearch[Alt+S]

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AWS Glue

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What's New

Enable compact mode

Crawlers successfully starting

The following crawlers are now starting: "redshift_crawler", "s3_crawler"

AWS Glue > Tables > dev_public_covid_cases

dev_public_covid_cases

Last updated (UTC)
February 22, 2023 at 12:39:07

Version 0 (Current version)

Actions

Table overview

Data quality

Table details

Advanced properties

Name	dev_public_covid_cases	Description	-	Database	redshift_metadata	Classification	redshift
Location	dev.public.covid_cases	Connection	redshift_cluster	Deprecated	-	Last updated	February 22, 2023 at 12:39:07
Input format	-	Output format	-	Serde serialization lib	-		

Schema

Partitions

Indexes

Schema (26)

View and manage the table schema.

Filter schemas

12

#	Column name	Data type	Partition key	Comment
1	continent	string	-	-
2	country	string	-	-
3	newrecovered	string	-	-
4	totaltests	string	-	-
5	twolettersymbol	string	-	-
6	deaths_1m_pop	string	-	-

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VPC Manag

AWS Glue

Glue Studio

Glue Studio

AWS Glue S

Redshift

Redshift

Database

Dashboard

ap-northeast-1.console.aws.amazon.com/glue/home?region=ap-northeast-1#/v2/data-catalog/tables/view/dev_public_covid_cases?database=redshift_metadata&catalogId=10783...

ServicesSearch[Alt+S]

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AWS Glue

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What's New

Enable compact mode

Schema

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Schema (26)

View and manage the table schema.

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12

#	Column name	Data type	Partition key	Comment
1	continent	string	-	-
2	country	string	-	-
3	newrecovered	string	-	-
4	totaltests	string	-	-
5	twolettersymbol	string	-	-
6	deaths_1m_pop	string	-	-
7	threelettersymbol	string	-	-
8	totaldeaths	string	-	-
9	test_percentage	string	-	-
10	tests_1m_pop	string	-	-
11	rank	string	-	-
12	id	string	-	-
13	case_fatality_rate	string	-	-
14	totalcases	string	-	-
15	one_testevery_x_ppl	string	-	-
16	totalrecovered	string	-	-
17	one_caseevery_x_ppl	string	-	-
18	recovery_proporation	string	-	-
19	newcases	string	-	-
20	totcases_1m_pop	string	-	-

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rapidapida

VPC Manag

AWS Glue

Glue Studio

Glue Studio

AWS Glue S

Redshift

Redshift

Database

Dashboard

ap-northeast-1.console.aws.amazon.com/glue/home?region=ap-northeast-1#/v2/data-catalog/tables/view/dev_public_covid_cases?database=redshift_metadata&catalogId=10783...

ServicesSearch[Alt+S]

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What's New

Enable compact mode

The following crawlers are now starting: "redshift_crawler", "s3_crawler"

AWS Glue > Tables > dev_public_covid_cases

dev_public_covid_cases

Last updated (UTC)
February 22, 2023 at 12:39:07

Version 0 (Current version)

Actions

Table overview

Data quality

Table details

Advanced properties

Name	dev_public_covid_cases	Description	-	Database	redshift_metadata	Classification	redshift
Location	dev.public.covid_cases	Connection	redshift_cluster	Deprecated	-	Last updated	February 22, 2023 at 12:39:07
Input format	-	Output format	-	Serde serialization lib	-		

Schema

Partitions

Indexes

Schema (26)

View and manage the table schema.

Filter schemas

< 1 2 > ⚙

#	Column name	Data type	Partition key	Comment
21	population	string	-	-
22	one_deathevery_x_ppl	string	-	-
23	activecases	string	-	-
24	serious_critical	string	-	-
25	newdeaths	string	-	-
26	infection_risk	string	-	-

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#FOR REDSHIFT CLUSTER SECURITY GROUP ID ATTACHED VPC

rapidapidata - S3

VPC Managemen

AWS Glue Consol

Glue Studio

Glue Studio - Edit

AWS Glue Studio

Redshift

Dashboard - Lam

ap-northeast-1.console.aws.amazon.com/vpc/home?region=ap-northeast-1#SecurityGroup:group-id=sg-0518e0f846f9ca087

ServicesSearch[Alt+S]

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VPC dashboard

EC2 Global View

Filter by VPC:

Select a VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

Security

Network ACLs

Security groups

Network Analysis

Reachability Analyzer

Network Access Analyzer

DNS firewall

Rule groups

Domain lists

VPC > Security Groups > sg-0518e0f846f9ca087 - default

sg-0518e0f846f9ca087 - default

Actions

Details

Security group name	default	Security group ID	sg-0518e0f846f9ca087	Description	default VPC security group	VPC ID	vpc-0b8a2cacebc3aa8bd
Owner	107838789361	Inbound rules count	2 Permission entries	Outbound rules count	1 Permission entry		

Inbound rules

Outbound rules

Tags

Inbound rules (2)

Filter security group rules

< 1 > ⚙

	Name	Security group rule...	IP version	Type	Protocol	Port range	Source	Description
<input type="checkbox"/>	-	sgr-0f720c0c53b22a0ce	-	All TCP	TCP	0 - 65535	sg-0518e0f846f9ca08...	-
<input type="checkbox"/>	-	sgr-03c359b0aea955f28	IPv4	All traffic	All	All	0.0.0.0/0	-

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

rapidapidata - S3

Endpoints | VPC

AWS Glue Console

Glue Studio

Glue Studio - Edit

AWS Glue Studio

Redshift

Dashboard - Lam

ap-northeast-1.console.aws.amazon.com/vpc/home?region=ap-northeast-1#Endpoints:

ServicesSearch[Alt+S]

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VPC dashboard

EC2 Global View

Filter by VPC:

Select a VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

Security

Network ACLs

Security groups

Network Analysis

Reachability Analyzer

Network Access Analyzer

DNS firewall

Rule groups

Domain lists

Endpoints (1/1)

Filter endpoints

	Name	VPC endpoint ID	VPC ID	Service name	Endpoint type	Status
<input checked="" type="checkbox"/>	my-endpoint-01	vpce-056c02a65d5ad7442	vpc-0b8a2cacebc3aa8bd	com.amazonaws.ap-northeast-1.s3	Gateway	Available

vpce-056c02a65d5ad7442 / my-endpoint-01

Details

Endpoint ID	Status	Creation time	Endpoint type
vpce-056c02a65d5ad7442	Available	Wednesday, February 22, 2023 at 13:00:47 GMT+5:30	Gateway
VPC ID	Status message	Service name	Private DNS names enabled
vpc-0b8a2cacebc3aa8bd	-	com.amazonaws.ap-northeast-1.s3	No

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#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

rapidapidata - S3

VPC Management

AWS Glue Console

Glue Studio

Glue Studio - Edit

AWS Glue Studio

Redshift

Dashboard - Lam

ap-northeast-1.console.aws.amazon.com/gluestudio/home?region=ap-northeast-1#/editor/job/S3_REDSHIFT/graph

ServicesSearch[Alt+S]

TokyoSYED ABDUL QADIR

S3_REDSHIFT

Last modified on 2/22/2023, 6:11:00 PM

Actions

Save

Run

Visual

Script

Job details

Runs

Data quality

Schedules

Version Control

Source

Action

Target

Undo

Redo

Remove

Data source - Data Catalog

AWS Glue Data Catalog

Data target - Redshift

Amazon Redshift

Node properties

Data source properties - Data Catalog

Output schema

Data preview

Database

Choose a database.

redshift

Use runtime parameters

Table

rapidapidata

Use runtime parameters

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

rapidapidata - S3

VPC Managemen

AWS Glue Consol

Glue Studio

Glue Studio - Edit

AWS Glue Studio

Redshift

Dashboard - Lam

ap-northeast-1.console.aws.amazon.com/gluestudio/home?region=ap-northeast-1#/editor/job/S3_REDSHIFT/graph

ServicesSearch[Alt+S]

TokyoSYED ABDUL QADIR

S3_REDSHIFT

Last modified on 2/22/2023, 6:11:00 PM

ActionsSaveRun

VisualScriptJob detailsRunsData quality NewSchedulesVersion Control

SourceActionTargetUndoRedoRemove

Node properties

Data target properties - Redshift

Output schema

Data preview

Database

redshift_metadata

Use runtime parameters

Table

dev_public_covid_cases

Use runtime parameters

Handling of new records Info

Insert only

Upsert (Update and Insert)

Advanced options

Data source - Data Catalog

AWS Glue Data Catalog

Data target - Redshift

Amazon Redshift

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#JOB RUN SUCESSFULLY

rapidapidata - S3

VPC Managemen

AWS Glue Consol

Glue Studio

Glue Studio - Edit

AWS Glue Studio

Redshift

Dashboard - Lam

ap-northeast-1.console.aws.amazon.com/gluestudio/home?region=ap-northeast-1#/editor/job/S3_REDSHIFT/runs

ServicesSearch[Alt+S]

TokyoSYED ABDUL QADIR

S3_REDSHIFT

Last modified on 2/22/2023, 6:11:00 PM

ActionsSaveRun

VisualScriptJob detailsRunsData quality NewSchedulesVersion Control

Recent job runs Info (3)

Filter job runs by property

February 22, 2023 6:11:07 PM

Job name

S3_REDSHIFT

Id

jr_2592516d3761fe83fefa07e087c95902fbee82c0275ef79909acc251abdf832

Run status

Succeeded

Glue version

3.0

Retry attempt number

Initial run

Start time

February 22, 2023 6:11:07 PM

End time

February 22, 2023 6:13:42 PM

Start-up time

17 seconds

Execution time

2 minutes 17 seconds

Last modified on

February 22, 2023 6:13:42 PM

Trigger name

-

Security configuration

-

Timeout

60 minutes

Max capacity

6 DPU

Number of workers

6

Worker type

G.1X

Execution class

STANDARD

Log group name

/aws-glue/jobs

Cloudwatch logs

All logs

Output logs

Error logs

Performance and debugging recommendations

View in CloudWatch

Input arguments (9)

February 22, 2023 1:36:36 PM

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#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_Proportion 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) )
```

rapidapi x VPC Manag x AWS Glue C x Glue Studio x Glue Studio x AWS Glue S x Redshift x Redshift x Database - x Dashboard x +

ap-northeast-1.console.aws.amazon.com/sqlworkbench/home?region=ap-northeast-1#/client

Services Search [Alt+S]

Tokyo SYED ABDUL QADIR

Editor

Untitled 1 x

Run Limit 100 Explain Isolated session redshift-cluster-1 dev

1 SELECT * FROM covid_cases

Result 1 (49)

Export Chart

this_long	recovery_proportion_...	newcases_long	totalcases_long	test_percentage_double	totcases_1m_pop_long	one_deathevery_x_ppl...	totaltests_long	newrecovered_long	case_fatality_rate_double
	98.78	0	44662952	64.13	31752	2651	902104560	0	1.19
	97.15	62472	25981655	30.79	506170	1741	15804065	26793	0.11
	90.07	0	22790250	62.35	181473	2664	78307523	0	0.21
	99.4	0	16919638	190.21	197747	845	162743369	0	0.6
	92.16	0	11506656	86.73	116283	2292	85826548	0	0.38
	91.93	0	7929052	117.17	331918	1803	27990764	0	0.17
	97.02	0	7558593	63.26	87867	595	54420785	0	1.91
	96.94	0	6531721	39.75	23400	1757	110961033	0	2.43
	98.54	0	4933753	197.98	148692	909	65692285	0	0.74
	99.03	0	4695207	24.65	67000	2124	17270775	0	0.7
	99.58	0	4692163	443.63	503127	791	41373364	0	0.25
	98	0	4011625	29.62	35656	1750	33323944	0	1.6
	98.95	0	2461857	45.96	58386	1663	19377732	0	1.03
	96.26	0	2128572	414.27	358132	3515	24622510	0	0.08
	97.4	0	2035930	8.95	12127	5705	15024644	0	1.45
	90.21	0	1957542	871.67	257426	726	66284763	0	0.54
	91.72	0	1785138	426.33	449800	235	16920079	0	0.95
	99.08	0	1746997	166.99	169597	729	17201885	0	0.81
	97.73	38	1574470	13.32	6861	7493	30570862	0	1.95
	98.94	66	1395113	60.27	72643	1403	11575012	0	0.98
	89.21	0	1219141	71.74	182374	624	4795578	0	0.88
	97.99	0	1039867	1946.37	103143	4294	196228625	0	0.23
	98.74	0	1000759	19.73	33110	2515	5964376	0	1.2
	99.61	0	986190	119.3	291938	1550	4030048	0	0.22
	98.36	0	824003	124.67	22988	3804	44687206	0	1.14
	98.76	0	823577	71.22	79957	1034	7336115	0	1.21
	99.46	0	692378	589.52	388108	1167	10517018	0	0.22
	97.48	0	671350	30.06	31116	1286	6486117	0	2.5

Elapsed time: 16565 ms Total rows: 49

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#BELOW POLICIES ARE ATTACHED FOR DUMPING DATA FROM S3 TO REDSHIFT

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups
- Users
- Roles
- Policies
- Identity providers
- Account settings

Access reports

- Access analyzer
 - Archive rules
 - Analyzers
 - Settings
- Credential report
- Organization activity
- Service control policies (SCPs)

IAM > Roles > crawler_gluefullaccess

crawler_gluefullaccess

Allows Glue to call AWS services on your behalf.

Delete

Edit

Summary

Creation date

February 21, 2023, 18:11 (UTC+05:30)

Last activity

3 hours ago

ARN

arn:aws:iam::107838789361:role/crawler_gluefullaccess

Maximum session duration

1 hour

Permissions

Trust relationships

Tags

Access Advisor

Revoke sessions

Permissions policies (5)

Info

You can attach up to 10 managed policies.

Filter policies by property or policy name and press enter.

Policy name

Type

Description

AmazonS3FullAccess

AWS managed

Provides full access to all bucl

CloudWatchFullAccess

AWS managed

Provides full access to CloudV

AmazonRedshiftFullAccess

AWS managed

Provides full access to Amazo

AdministratorAccess

AWS managed - job function

Provides full access to AWS s

AWSGlueConsoleFullAccess

AWS managed

Provides full access to AWS G

Permissions boundary - (not set)

Info

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.

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