



Data Application Builders Workshop

Project Submission

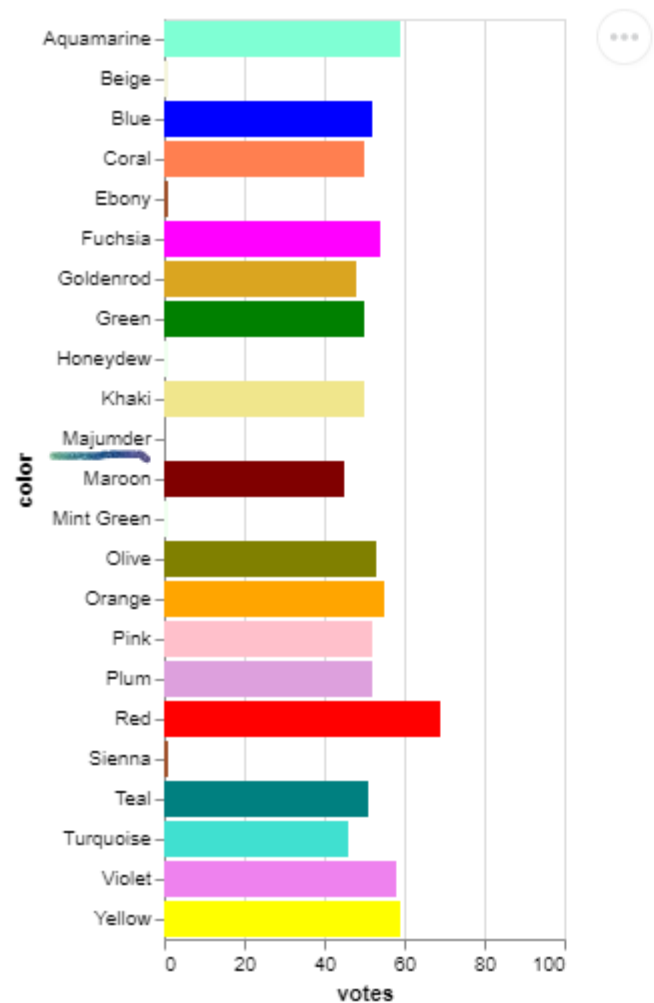
Kaushik Majumder

kausshhik@gmail.com

[17-Apr-2021](#)



Kaushik's Favorite Colors

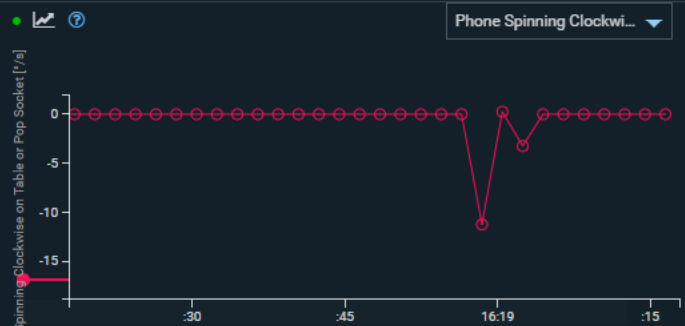


[Return to homepage](#)

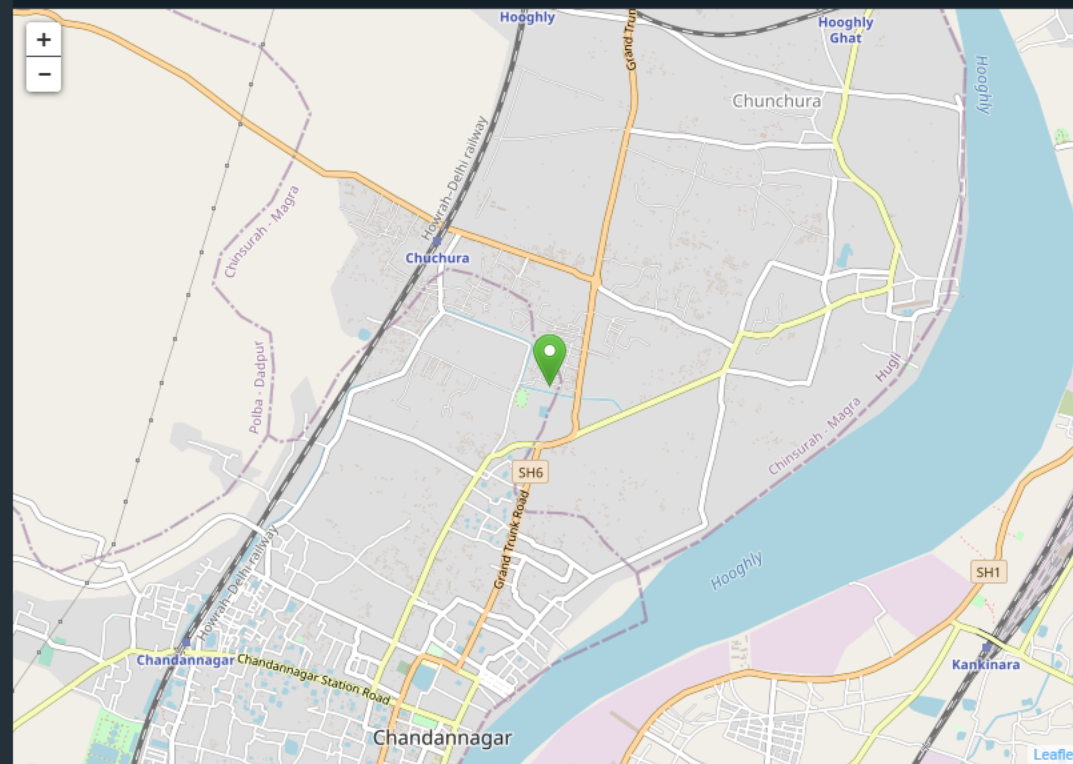
RECENT ALARMS

	The Phone is spinning		
	17 April 2021 16:19 OnePlus 7 Pro		
	The Phone is spinning		
	17 April 2021 16:18 OnePlus 7 Pro		
	The Phone is spinning		
	17 April 2021 16:09 OnePlus 7 Pro		
	The Phone is spinning		
	17 April 2021 16:08 OnePlus 7 Pro		

PHONE GYROSCOPES



MAP





Search

»

webMethods.io Integration Connectors

- ActiveCampaign
- Acuity Scheduling
- AddThis
- AgileApps
- Aha!
- Akamai
- Amazon Aurora

Execution History

Start Time	Status	Actions
17/04/2021 07:19:06 AM PDT	Success	Export
17/04/2021 07:19:04 AM PDT	Success	Export
17/04/2021 07:19:02 AM PDT	Success	Export
17/04/2021 07:19:01 AM PDT	Success	Export
17/04/2021 07:09:36 AM PDT	Success	Export
17/04/2021 07:09:34 AM PDT	Success	Export
17/04/2021 07:08:44 AM PDT	Success	Export

1 - 15 of 37 items

Home / Cumulocity - C xwebMethods.io Integra xiot_data - Pub/Sub - Io xps-to-avro-iot-data - Jxkaushik_sn...ot_bucket - xiot_files_updated-sub - xWorksheet - Bucket chxOAuth 2.0 Playground xTroubleshooting Snowy x

console.cloud.google.com/cloudpubsub/topic/detail/iot_data?project=iot-on-sf&supportedpurview=project

Google Cloud PlatformIoT on SFpub

iot_dataPUBLISH MESSAGEVIEW MESSAGESTRIGGER CLOUD FUNCTIONIMPORTDELETEHIDE INFO PANEL

Topic details

Topic nameprojects/iot-on-sf/topics/iot_data

Export to BigQuery

Create a Dataflow job to export data to a BigQuery table.

EXPORT TO BIGQUERY

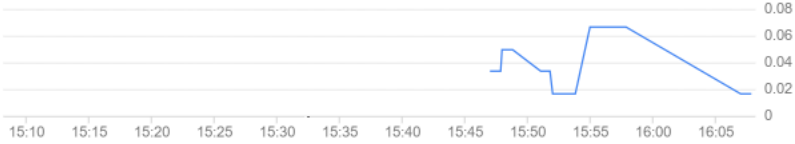
Export to Cloud Storage

Create a Dataflow job to export data to a text or Avro file in Cloud Storage.

EXPORT TO TEXTEXPORT TO AVRO

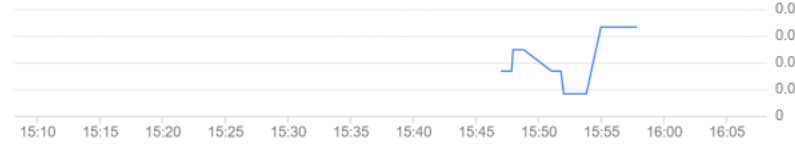
Publish message request count

Requests/sec



Publish message operation count

Operations/sec



Encryption keyGoogle-managed

Schema name-

Message encoding-

Labels-

SUBSCRIPTIONSSNAPSHOTS

Only subscriptions attached to this topic are displayed. A subscription captures the stream of messages published to a given topic. You can also stream messages to BigQuery or Cloud Storage by creating a subscription from a Cloud Dataflow job. [Learn more](#)

CREATE SUBSCRIPTION

iot_data

PERMISSIONSLABELSSTORAGE POLICY

Edit or delete permissions below or 'Add Member' to grant new

ADD MEMBER

Show inherited permissions

Filter Enter property name or value

Role/Member	Inheritance
Cloud Dataflow Service Agent (1)	
Editor (2)	
Owner (1)	

4:08 PM4/17/2021

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console.cloud.google.com/dataflow/jobs/us-central1/2021-04-17_06_48_59-468266427540923944:step=?project=iot-on-sf&supportedpurview=project

Google Cloud PlatformIoT on SF

Search products and resources

3

ps-to-avro-iot-dataCLONESTOPCREATE SNAPSHOTSHAREMAX. TIME

JOB GRAPHEXECUTION DETAILSJOB METRICS

Read PubSub EventsRunning0 sec1 stage

Map to Archive0 elements/s0 sec1 stage

5m Window0 elements/s0 sec1 stage

Write File(s)0 elements/s2 sec5 stages

CLEAR SELECTION

Job info

Job nameps-to-avro-iot-data

Job ID2021-04-17_06_48_59-468266427540923944

Job typeStreaming

Job statusRunning

SDK versionApache Beam SDK for Java 2.27.0

Job regionus-central1

Worker locationus-central1-f

Current workers1

Latest worker statusAutoscaling: Reduced the number of workers to 1 based on low average worker CPU utilization, and the pipeline having sufficiently low backlog and keeping up with input rate.

Start time17 April 2021 at 15:49:01 GMT+2

Elapsed time21 min 20 sec

Encryption typeGoogle-managed key

Resource metrics

Current vCPUs4

Total vCPU time2.189 vCPU hr

Current memory15 GB

Total memory time8.208 GB hr

Current HDD PD1.2 TB

Total HDD PD time426.42 GB hr

Current SSD PD0 B

Total SSD PD time0 GB hr

Labels

goog-dataflow-provided-template-namecloud-pubsub_to_avro

goog-dataflow-provided-template-typelegacy

goog-dataflow-2021-03-29-00 rc00

LogsSHOW

Windows Taskbar

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console.cloud.google.com/storage/browser/kaushik_snowflake_iot_bucket/iot_files?pageState=(\"StorageObjectListTable\":(\"f\":\"%255B%255D\"))&project=iot-on-sf&supportedpurview=project&prefix=&forceOnObjectsSortingFiltering=false

Google Cloud PlatformIoT on SF

Search products and resources

REFRESHLEARN

kaushik_snowflake_iot_bucket

OBJECTS

CONFIGURATION

PERMISSIONS

RETENTION

LIFECYCLE

Buckets > kaushik_snowflake_iot_bucket > iot_files

UPLOAD FILES

UPLOAD FOLDER

CREATE FOLDER

MANAGE HOLDS

DOWNLOAD

DELETE

Filter by name prefix only

Filter

Filter objects and folders

<input type="checkbox"/>	Name	Size	Type	Created time	Storage class	Last modified	Public access	Encryption	Retention expiry date	Holds	
<input type="checkbox"/>	iot_files_sample_output.avro	917 B	application/octet-stream	17 Apr 2021, 11:35:13	Standard	17 Apr 2021, 11:35:13	Not public	Google-managed key	—	None	
<input type="checkbox"/>	output2021-04-17T10:25:00.000Z-2021-04-17T10:30:00.000Z-pane-0-last-00-of-0	773 B	application/octet-stream	17 Apr 2021, 12:30:08	Standard	17 Apr 2021, 12:30:08	Not public	Google-managed key	—	None	
<input type="checkbox"/>	output2021-04-17T10:30:00.000Z-2021-04-17T10:35:00.000Z-pane-0-last-00-of-0	1,015 B	application/octet-stream	17 Apr 2021, 12:35:38	Standard	17 Apr 2021, 12:35:38	Not public	Google-managed key	—	None	
<input type="checkbox"/>	output2021-04-17T10:35:00.000Z-2021-04-17T10:40:00.000Z-pane-0-last-00-of-0	1,016 B	application/octet-stream	17 Apr 2021, 12:40:56	Standard	17 Apr 2021, 12:40:56	Not public	Google-managed key	—	None	
<input type="checkbox"/>	output2021-04-17T10:40:00.000Z-2021-04-17T10:45:00.000Z-pane-0-last-00-of-0	1,013 B	application/octet-stream	17 Apr 2021, 12:45:06	Standard	17 Apr 2021, 12:45:06	Not public	Google-managed key	—	None	
<input type="checkbox"/>	output2021-04-17T12:35:00.000Z-2021-04-17T12:40:00.000Z-pane-0-last-00-of-0	433 B	application/octet-stream	17 Apr 2021, 14:41:34	Standard	17 Apr 2021, 14:41:34	Not public	Google-managed key	—	None	
<input type="checkbox"/>	output2021-04-17T12:45:00.000Z-2021-04-17T12:50:00.000Z-pane-0-last-00-of-0	413 B	application/octet-stream	17 Apr 2021, 14:51:32	Standard	17 Apr 2021, 14:51:32	Not public	Google-managed key	—	None	
<input type="checkbox"/>	output2021-04-17T13:50:00.000Z-2021-04-17T13:55:00.000Z-pane-0-last-00-of-0	453 B	application/octet-stream	17 Apr 2021, 15:55:40	Standard	17 Apr 2021, 15:55:40	Not public	Google-managed key	—	None	
<input type="checkbox"/>	output2021-04-17T13:55:00.000Z-2021-04-17T14:00:00.000Z-pane-0-last-00-of-0	413 B	application/octet-stream	17 Apr 2021, 16:03:29	Standard	17 Apr 2021, 16:03:29	Not public	Google-managed key	—	None	
<input type="checkbox"/>	output2021-04-17T14:05:00.000Z-2021-04-17T14:10:00.000Z-pane-0-last-00-of-0	420 B	application/octet-stream	17 Apr 2021, 16:10:38	Standard	17 Apr 2021, 16:10:38	Not public	Google-managed key	—	None	
<input type="checkbox"/>	output2021-04-17T14:15:00.000Z-2021-04-17T14:20:00.000Z-pane-0-last-00-of-0	411 B	application/octet-stream	17 Apr 2021, 16:20:36	Standard	17 Apr 2021, 16:20:36	Not public	Google-managed key	—	None	
<input type="checkbox"/>	temp/	—	Folder	—	—	—	—	—	—	—	

Rows per page:

50

1 – 12 of 12

Windows Taskbar

4:31 PM4/17/2021

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console.cloud.google.com/cloudpubsub/topic/detail/iot_files_updated?project=iot-on-sf&supportedpurview=project

Google Cloud PlatformIoT on SF

Search products and resources

3

iot_files_updatedPUBLISH MESSAGEVIEW MESSAGESTRIGGER CLOUD FUNCTIONIMPORTDELETEHIDE INFO PANEL

Topic details

Topic nameprojects/iot-on-sf/topics/iot_files_updated

Export to BigQuery

Create a Dataflow job to export data to a BigQuery table.

EXPORT TO BIGQUERY

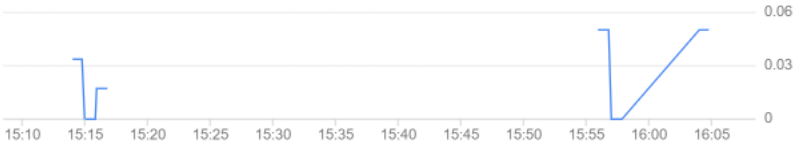
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EXPORT TO TEXTEXPORT TO AVRO

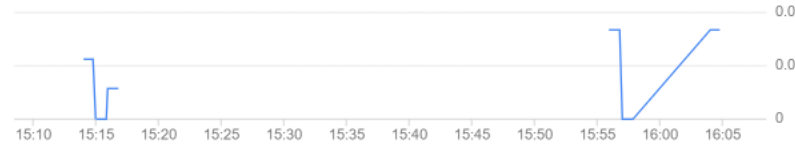
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Operations/sec



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CREATE SUBSCRIPTION

iot_files_updated

PERMISSIONSLABELSSTORAGE POLICY

Edit or delete permissions below or 'Add Member' to grant new

ADD MEMBER

Show inherited permissions

Filter

Enter property name or value

Role/Member

Inheritance

Cloud Dataflow Service Agent (1)

Editor (2)

Owner (1)

Pub/Sub Publisher (1)

1 hour6 hours1 day7 days30 daysRESET ZOOM

Windows Taskbar

4:08 PM 4/17/2021

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Account

Usage Billing Users Roles Policies Sessions Resource Monitors Reader Accounts

AN96886 - Usage April 2021 (local) ▼

Warehouses Credits Used

3 2.90

Average Storage Used

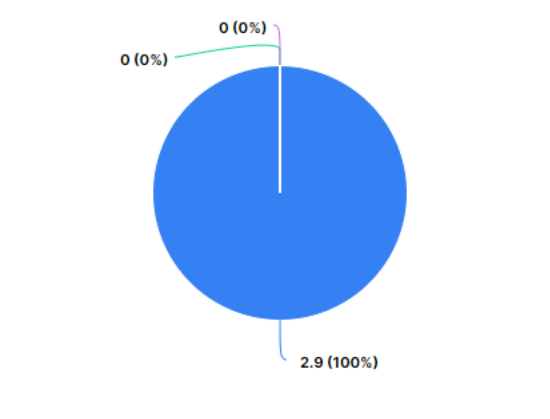
12 B

Data Transfer

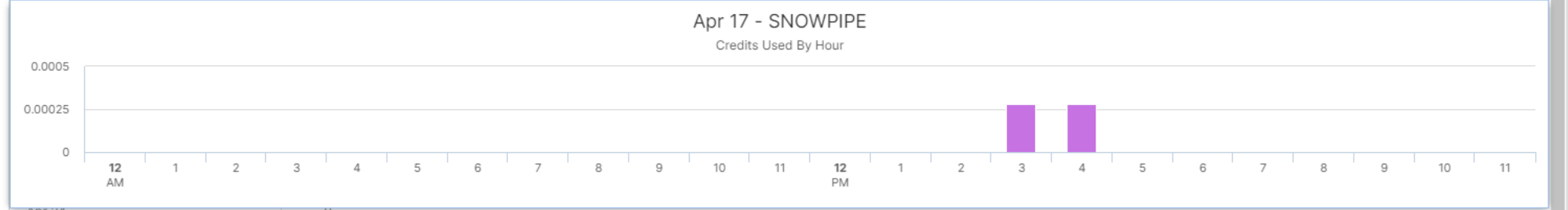
0 B

Usage by Day - SNOWPIPE Download

	Warehouse Name	Credits Used
●	COMPUTE_WH	2.90
●	CLOUD_SERVICES_ONLY	0.00
●	SNOWPIPE	0.00



Date	Credits Used
Apr 11	0
Apr 12	0
Apr 13	0
Apr 14	0
Apr 15	0
Apr 16	0
Apr 17	0.00



Apr 24	0
Apr 25	0
Apr 26	0
Apr 27	0
Apr 28	0
Apr 29	0
Apr 30	0

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an96886.us-central1.gcp.snowflakecomputing.com/console#/internal/worksheet

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Databases

Shares

Data Marketplace

Warehouses

Worksheets

History

Account

Preview App

Partner Connect

Help

Notifications

KAUSSHHIK

ACCOUNTADMIN

New Worksheet

TempSim

GCP Bucket

Bucket change integrati...

+

Find database objects

Starting with...

DEMO_DB

INFORMATION_SCHEMA

PUBLIC

Tables

COLORS

IOT_AVRO_DATA

SIMULATED_TEMPS

YEAR_DAYS

No Views in this Schema

SNOWFLAKE

SNOWFLAKE_SAMPLE_DATA

UTIL_DB

Run

All Queries

Saved 0 seconds ago

12 snow pipes;

13

14

15 CREATE OR REPLACE PIPE mySnowpipe

16 AUTO_INGEST = TRUE

17 INTEGRATION = my_iot_bucket_changes

18 AS

19 COPY INTO IOT_AVRO_DATA

20 FROM @Google_Bucket_SFHOL/iot_files/output

21 file_format = (TYPE = AVRO)

22 pattern='.*avro';

23

24

25 SELECT count(*) FROM IOT_AVRO_DATA;

26

27 SELECT * FROM IOT_AVRO_DATA;

28

29 Select system\$pipe_status('mySnowpipe');

Results

Data Preview

Query ID

SQL

257ms

1 rows

Filter result...

Download

Copy

Row	SYSTEM\$PIPE_STATUS('MYSNOWPIPE')
1	{\"executionState\":\"RUNNING\",\"pendingFileCount\":0,\"notificationChannelName\":\"projects/iot-on-sf/subscriptions/iot_files_updated-sub\",\"numOutstandingMessagesOnChannel\":1,\"lastReceivedMessageTimestamp\":\"2021-04-17T14:10:43.304Z\",\"lastForwardedMessageTim...

Details

1 {\"executionState\":\"RUNNING\",\"pendingFileCount\":0,\"notificationChannelName\":\"projects/iot-on-sf/subscriptions/iot_files_updated-sub\",\"numOutstandingMessagesOnChannel\":1,\"lastReceivedMessageTimestamp\":\"2021-04-17T14:10:43.304Z\",\"lastForwardedMessageTimestamp\":\"2021-04-17T14:10:43.541Z\"}

Done

IOT_AVRO_DATA

Preview Data

237 rows 7.5 KB

Cluster by

-

Columns

MYCOLUMN

Data Type

VARIANT

ACCOUNTADMIN

COMPUTE_WH (XS)

DEMO_DB

PUBLIC

Open History

Columns

Windows Taskbar

4:14 PM 4/17/2021

Home / Cumulocity - C

webMethods.io Integra

iot_data - Pub/Sub - Io

ps-to-avro-iot-data - J

kaushik_sn...ot_bucket

iot_files_updated - Pub

Worksheet - Bucket ch

OAuth 2.0 Playground

Troubleshooting Snow

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GCP Bucket

Bucket change integrati...

Find database objects

Starting with...

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IOT_AVRO_DATA

SIMULATED_TEMPS

YEAR_DAYS

No Views in this Schema

SNOWFLAKE

SNOWFLAKE_SAMPLE_DATA

UTIL_DB

Run

All Queries

Saved 1 minute ago

12 snow pipes;

13

14

15 CREATE OR REPLACE PIPE mySnowpipe

16 AUTO_INGEST = TRUE

17 INTEGRATION = my_iot_bucket_changes

18 AS

19 COPY INTO IOT_AVRO_DATA

20 FROM @Google_Bucket_SFHOL/iot_files/output

21 file_format = (TYPE = AVRO)

22 pattern='.*avro';

23

24

25 SELECT count(*) FROM IOT_AVRO_DATA;

26

27 SELECT * FROM IOT_AVRO_DATA;

28

29 Select system\$pipe_status('mySnowpipe');

Details

1 {

2 "attributes": {

3 "alarm_message": "The Phone is spinning"

4 },

5 "message": "",

6 "timestamp": 1618663184365

7 }

Done

Results

Data Preview

Query ID SQL 37ms 242 rows

Filter result...

Copy

Columns

Open History

IOT_AVRO_DATA

Preview Data

242 rows 9.5 KB

Cluster by

Columns

MYCOLUMN

Data Type

VARIANT

Row	MYCOLUMN
215	{ "attributes": { "alarm_message": "The Phone is spinning" }, "message": "", "timestamp": 1618663184365 }
220	{ "attributes": { "alarm_message": "The Phone is spinning" }, "message": "", "timestamp": 1618663747878 }
221	{ "attributes": { "alarm_message": "The Phone is spinning" }, "message": "", "timestamp": 1618663751629 }
222	{ "attributes": { "alarm_message": "The Phone is spinning" }, "message": "", "timestamp": 1618663761483 }
223	{ "attributes": { "alarm_message": "The Phone is spinning" }, "message": "", "timestamp": 1618663763549 }
225	{ "attributes": { "alarm_message": "The Phone is spinning" }, "message": "", "timestamp": 1618667422921 }
227	{ "attributes": { "alarm_message": "The Phone is spinning" }, "message": "", "timestamp": 1618667429138 }
224	{ "attributes": { "alarm_message": "The Phone is spinning" }, "message": "", "timestamp": 1618667507064 }
229	{ "attributes": { "alarm_message": "The Phone is spinning" }, "message": "", "timestamp": 1618667510073 }
228	{ "attributes": { "alarm_message": "The Phone is spinning" }, "message": "", "timestamp": 1618667537208 }
226	{ "attributes": { "alarm_message": "The Phone is spinning" }, "message": "", "timestamp": 1618667538885 }
230	{ "attributes": { "alarm_message": "The Phone is spinning" }, "message": "", "timestamp": 1618667659241 }

Windows Taskbar

4:15 PM 4/17/2021