

## GCP Architect Training

[support@intellipaat.com](mailto:support@intellipaat.com) - +91-7022374614 - US: 1-800-216-8930 (Toll Free)

### GCP-Module-3-Assignment-1-Deployment on GCP COMPLETED by Nagesha KS

Please check the following screenshots for each question.

#### Tasks To Be Performed:

1. Create a **CSV file with 20 records** with dates ranging from 1999-2010.
2. Upload the first 10 records in the main table.
3. Create a **partition table**, which will only create records from the year 1999-2005.

#### Pub/Sub:

1. Create a **Pub/Sub queue**, publish 3 messages (you can decide the contents yourself).
2. **Consume the messages** from the Cloudshell using the auto acknowledge flag.



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Google Cloud



My First Project

Search (/) for resources, docs, products and more



Search



5



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Welcome, Nagesha K S

### You're in free trial



₹57 out of ₹25,093 credits used

Expires 4 January 2025

[What happens when trial ends?](#)

[ACTIVATE FULL ACCOUNT](#)

You're working on project [My First Project](#)

Number: 372983484282



ID: sylvan-dragon-437714-p6



[Add people to your project](#)

[Set up budget alerts](#)

[Review product spend](#)

Try our most advanced model: Gemini 1.5 Pro

Try Gemini



Recommended based on your interest in [Web, mobile, game, storage](#)

[Pre-built solution templates](#)

Activate Windows

Go to Settings to activate Windows.



14:36  
10-10-2024

Welcome - My First Project - G x +

console.cloud.google.com/welcome/new?project=sylvan-dragon-437714-p6&pli=1

Free trial status: ₹2 what you use.

Google Cloud

example\_data - Notepad

File Edit Format View Help

```
id,date
1,1999-01-01
2,1999-06-15
3,2000-03-05
4,2000-07-22
5,2001-02-10
6,2001-09-30
7,2002-04-12
8,2002-11-27
9,2003-06-18
10,2003-12-01
11,2004-05-09
12,2004-10-16
13,2005-03-25
14,2005-08-20
15,2006-07-17
16,2006-12-19
17,2007-05-10
18,2008-09-25
19,2009-11-11
20,2010-02-28
```

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Try our most advanced model: Gemini 1.5 Pro

Try Gemini →

Recommended based on your interest in Web, mobile, game, storage -

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Pre-built solution templates ?



BigQuery – Nagesha-GCP-Proje

console.cloud.google.com/bigquery?referrer=search&project=nagesha-gcp-project-1&ws=!1m0

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Google Cloud

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BigQuery

Explorer

+ ADD

I<

Untitled query

+

Analysis

BigQuery Studio

Data transfers

Scheduled queries

Analytics Hub

Dataform

Partner Centre

Orchestration

Migration

Assessment

SQL translation

Release notes

Search BigQuery

Viewing resources.

SHOW STARRED ONLY

nagesha-gcp-project

Summary

Nothing currently selected

Canvas

Workflow

demo query

search terms in the US from the Google Trends public

ATASET

Try the Colab demo notebook

This notebook walks you through their basics and showcases BigQuery DataFrames.

14:38

10-10-2024

Welcome to BigQuery in the Cloud Console

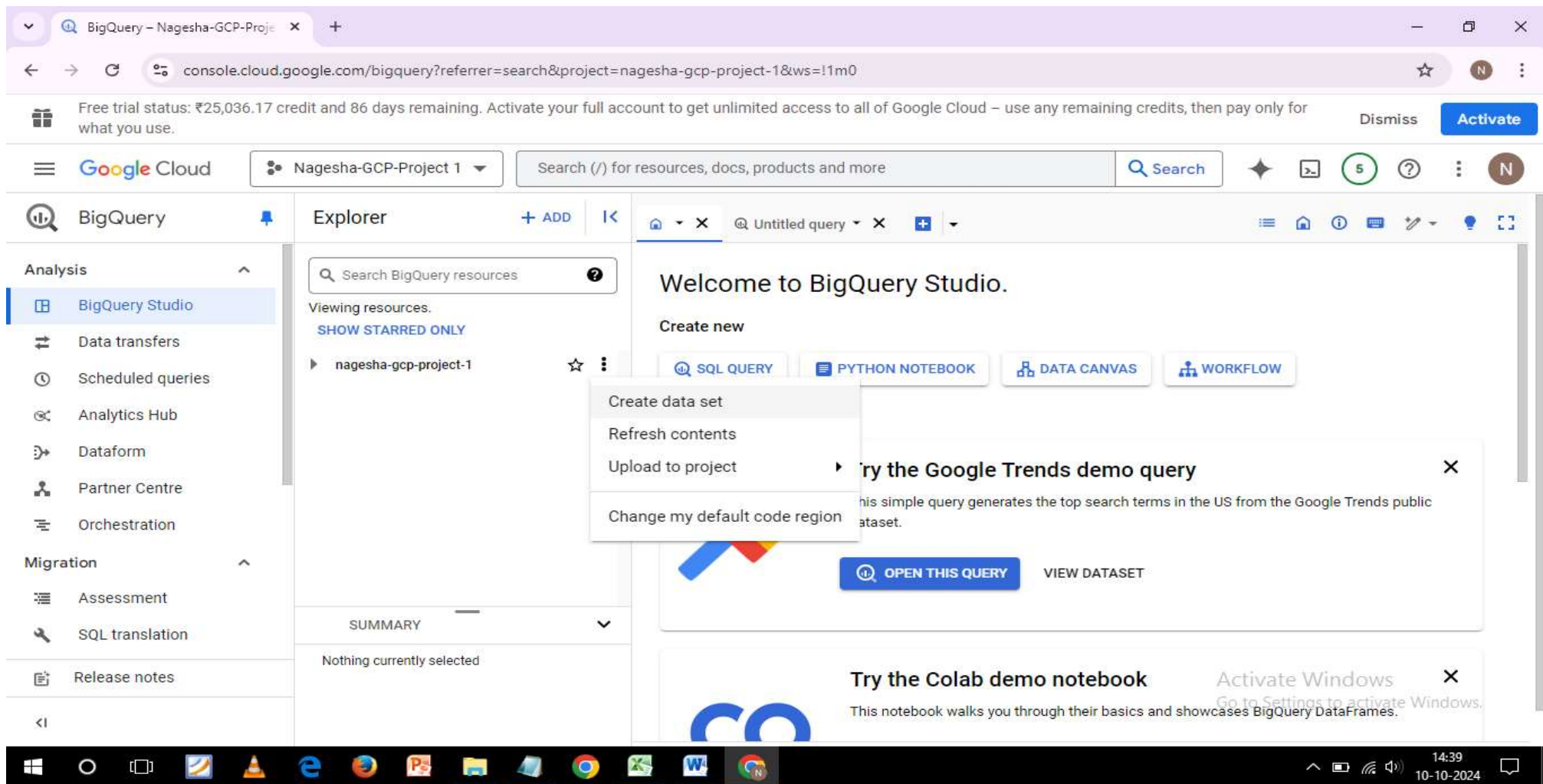
New to the BigQuery UI?

The BigQuery UI helps you complete tasks like running queries, loading data and even creating and training ML models. Take a look at the BigQuery [quickstart guide](#) to learn how to start performing data analysis on Google Cloud.

Learn about new features

New improvements and updates are constantly on the way. We recommend periodically checking our [release notes](#) to stay up to date on what's new.

DONE



csv\_data\_example - BigQuery

console.cloud.google.com/bigquery?referrer=search&project=nagesha-gcp-project-1&ws=!1m4!1m3!3m2!1snagesha-gcp-project-1!2scsv\_data\_example

Free trial status: ₹25,036.17 credit and 86 days remaining. Activate your full account to get unlimited access to all of Google Cloud – use any remaining credits, then pay only for what you use.

Dismiss

Activate

Google Cloud

Nagesha-GCP-Project 1

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BigQuery

Explorer

+ ADD

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Analysis

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Assessment

SQL translation

Release notes

<I

Search BigQuery resources

Viewing resources.

SHOW STARRED ONLY

nagesha-gcp-project-1

csv\_data\_example

SHOW MORE

SUMMARY

csv\_data\_example

nagesha-gcp-project-1

Data location

us-central1

csv\_data\_example

+ CREATE TABLE

+ SHARING

COPY

DELETE

REFRESH

Data set info

EDIT DETAILS

Data set ID	nagesha-gcp-project-1.csv_data_example
Created	10 Oct 2024, 14:40:50 UTC+5:30
Default table expiry	Never
Last modified	10 Oct 2024, 14:40:50 UTC+5:30
Data location	us-central1
Description	
Default collation	
Default rounding mode	ROUNDING_MODE_UNSPECIFIED
Time travel window	7 days
Case insensitive	false
Labels	
Tags	

Dataset replica info

PREVIEW

Activate Windows

Go to Settings to activate Windows.

VIEW REPLICAS

Windows taskbar with icons for File Explorer, Edge, Chrome, and others.

System tray showing time 14:40 and date 10-10-2024.



Create table – BigQuery – Nage

console.cloud.google.com/bigquery?referrer=search&project=nagesha-gcp-project-1&ws=!1m4!1m3!1m2!1snagesha-gcp-project-1!2scsv\_data\_example

Create table

Source

Create table from  
Empty table

Destination

Project \*  
nagesha-gcp-project-1

Data set \*  
csv\_data\_example

Table \*  
main\_table

Maximum name size is 1,024 UTF-8 bytes. Unicode letters, marks, numbers, connectors, dashes and spaces are allowed.

Table type  
Native table

Schema

Edit as text

CREATE TABLE

CANCEL

Activate Windows

Go to Settings to activate Windows.

14:41

10-10-2024

BigQuery - Nagesha-GCP-Proje

console.cloud.google.com/bigquery?referrer=search&project=nagesha-gcp-project-1&ws=!1m5!1m4!4m3!1snagesha-gcp-project-1!2scsv\_data\_example!3smain\_table

Free trial status: ₹25,036.17 credit and 86 days remaining. Activate your full account to get unlimited access to all of Google Cloud – use any remaining credits, then pay only for what you use.

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BigQuery

Explorer

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BigQuery Studio

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SQL translation

Release notes

Search BigQuery resources

Viewing resources.

SHOW STARRED ONLY

nagesha-gcp-project-1

csv\_data\_example

main\_table

SHOW MORE

SHOW MORE

SUMMARY

main\_table

nagesha-gcp-project-1.csv\_data\_example

Last modified

10 Oct 2024, 14:42:14 UTC+5:30

main\_table

QUERY

SHARE

COPY

SNAPSHOT

DELETE

SCHEMA

DETAILS

PREVIEW

TABLE EXPLORER

PREVIEW

INSIGHTS

LINEAGE

Filter

Enter property name or value

Field name

Type

Mode

Key

Collation

Default value

Policy tags

Description

No rows to display

EDIT SCHEMA

VIEW ROW ACCESS POLICIES

Activate Windows

Go to Settings to activate Windows.

Windows taskbar with icons for Start, Task View, File Explorer, Edge, Chrome, and system tray showing time 14:42 on 10-10-2024.





BigQuery – Nagesha-GCP-Proje

console.cloud.google.com/bigquery?referrer=search&project=nagesha-gcp-project-1&ws=!1m5!1m4!4m3!1snagesha-gcp-project-1!2scsv\_data\_example!3main\_table

Free trial status: ₹25,036.17 credit and 86 days remaining. Activate your full account to get unlimited access to all of Google Cloud – use any remaining credits, then pay only for what you use.

DismissActivate

Google Cloud

Nagesha-GCP-Project 1

Search (/) for resources, docs, products and more

Search

5

N

BigQuery

Analysis

BigQuery Studio

Data transfers

Scheduled queries

Analytics Hub

Dataform

Partner Centre

Orchestration

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SQL translation

Release notes

Explorer

+ ADD

<

Search BigQuery resources

Viewing resources.

SHOW STARRED ONLY

nagesha-gcp-project-1

csv\_data\_example

main\_table

SHOW MORE

SHOW MORE

SUMMARY

main\_table

nagesha-gcp-project-1.csv\_data\_example

Last modified

10 Oct 2024, 14:42:14 UTC+5:30

main\_table

QUERY

SHARE

COPY

SNAPSHOT

DELETE

SCHEMA

DETAILS

PREVIEW

TABLE EXPLORER

PREVIEW

INSIGHTS

LINEAGE

Filter

Enter property name or value

<input type="checkbox"/>	Field name	Type	Mode	Key	Collation	Default value	Policy tags	Description
<input type="checkbox"/>	id	INTEGER	NULLABLE	-	-	-	-	-
<input type="checkbox"/>	date	DATE	NULLABLE	-	-	-	-	-

EDIT SCHEMA

VIEW ROW ACCESS POLICIES

Activate Windows

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Windows taskbar

14:44

10-10-2024

BigQuery – Nagesha-GCP-Proje

console.cloud.google.com/bigquery?referrer=search&project=nagesha-gcp-project-1&ws=!1m5!1m4!4m3!1snagesha-gcp-project-1!2scsv\_data\_example!3main\_table

Free trial status: ₹25,036.17 credit and 86 days remaining. Activate your full account to get unlimited access to all of Google Cloud – use any remaining credits, then pay only for what you use.

DismissActivate

Google Cloud

Nagesha-GCP-Project 1

Search (/) for resources, docs, p

BigQuery

Analysis

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Data transfers

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Partner Centre

Orchestration

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SQL translation

Release notes

Explorer

Search BigQuery resources

Showing resources.

SHOW STARRED ONLY

nagesha-gcp-project-1

csv\_data\_example

main\_table

SHOW MORE

SHOW MORE

SUMMARY

main\_table

nagesha-gcp-project-1.csv\_data\_example

Last modified

10 Oct 2024, 14:42:14 UTC+5:30

main\_table

SCHEMA

Filter

Field

id

date

EDIT SCHEMA

example\_data\_first

Count: 2

100%

Activate Windows

Go to Settings to activate Windows.

example_data_first	
id	date
1	01-01-1999
2	15-06-1999
3	05-03-2000
4	22-07-2000
5	10-02-2001
6	30-09-2001
7	12-04-2002
8	27-11-2002
9	18-06-2003
10	01-12-2003

### Create table

#### Source

Create table from

Select file \*  X BROWSE ?

File format

#### Destination

Project \*  BROWSE

Data set \*

Table \*   
Maximum name size is 1,024 UTF-8 bytes. Unicode letters, marks, numbers, connectors, dashes and spaces are allowed.

Table type  ?

CANCEL

Activate Windows  
Go to Settings to activate Windows.

Create table – BigQuery – Nage

console.cloud.google.com/bigquery?project=nagesha-gcp-project-1&ws=!1m4!1m3!3m2!1snagesha-gcp-project-1!2scsv\_data\_example

Create table

Source

Create table from  
Upload

Select file \*  
example\_data\_1999\_2005.csv

File format  
CSV

Destination

Project \*  
nagesha-gcp-project-1

Data set \*  
csv\_data\_example

Table \*  
partition\_table

Table type  
Native table

CREATE TABLE

CANCEL

Activate Windows

Go to Settings to activate Windows.

Windows taskbar with icons for File Explorer, Edge, Photoshop, and others. System tray shows time 15:27 and date 10-10-2024.

Create table

Native table

Schema

☐ Auto-detect

☒ Edit as text

Partition and cluster settings

Partitioning

Partition by ingestion time

Partitioning filter ?

☐ Require WHERE clause to query data

Partitioning type ?

☐ By day

☐ By hour

☐ By month

☒ By year

CANCEL

Activate Windows

Go to Settings to activate Windows.



Search – Nagesha-GCP-Project

console.cloud.google.com/search;q=pub%2Fsub;searchScope=projects%2Fnagesha-gcp-project-1;tab=all?project=nagesha-gcp-project-1

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Nagesha-GCP-Project 1

pub/sub

Search

5

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Search

ALLDOCUMENTATION AND TUTORIALSRESOURCESMARKETPLACE AND APIS

SEND FEEDBACK

Filter by

☐ Product or page

☐ Documentation or tutorial

☐ Marketplace and APIs

☐ Organisation

☐ Folder

☐ Project

☐ Resources

Resource filters

Project, folder or org

Nagesha-GCP-Project 1

Resource type

Any

Search results

Showing 30 of 119 results for "pub/sub".

Pub/Sub

Deliver and ingest messages for event-driven systems and streaming analytics

Type: Product or page

API

Cloud Pub/Sub API

Provides reliable, many-to-many, asynchronous messaging between applications.

Type: API

Producer: Google Enterprise API

Cloud Pub/Sub

A global messaging service for big data streaming and application integration

Type: Marketplace product

Producer: Google

Speed up your search with these quick tips

Press / to search from anywhere in the console

Find 105 resource types and more by using the new filters on this page

Find an API key by entering its key string in search

Search for top AWS or Azure offerings and get suggestions for similar Google Cloud products.  
[Learn more](#)

Activate Windows

Go to Settings to activate Windows.

Windows Taskbar

15:29

10-10-2024

Topics – Pub/Sub – Nagesha-GCP

console.cloud.google.com/cloudpubsub/topic/list?referrer=search&project=nagesha-gcp-project-1

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Dismiss

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Nagesha-GCP-Project 1

Search (/) for resources, docs, pr...

Search

5

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Pub/Sub

Topics

+ CREATE TOPIC

DELETE

LEARN

HIDE INFO PANEL

Pub/Sub

Topics

Subscriptions

Snapshots

Schemas


Pub/Sub Lite

Lite reservations

Lite topics

Lite Subscriptions

Release notes




### Simplify data lake pipelines with new Pub/Sub Cloud Storage subscriptions NEW

You can now streamline your data ingestion pipelines with Cloud Storage subscriptions, enabling you to write raw streaming data into Cloud Storage without any transformations in between. To get started, create a new Cloud Storage subscription for a Pub/Sub topic.

[CREATE CLOUD STORAGE SUBSCRIPTION](#)

[LEARN MORE](#)



### Stream data directly into BigQuery with Pub/Sub

Leverage Pub/Sub BigQuery subscription to ingest raw data into BigQuery to accelerate your time to insights. Get started by creating a new BigQuery subscription that is associated with a Pub/Sub topic.

[TRY NOW](#)


[LEARN MORE](#)

LEARN Tutorial

Get started with Pub/Sub topics


Topics are named resources that are used to send and manage messages.

Create a topic and publish a message

[Publish and receive messages in Pub/Sub](#)


[Tutorial](#)

Learn how to create a topic and a subscription in Pub/Sub and send some test messages.

[Overview of the Pub/Sub service](#)

[Help document](#)


Understand the terms topic, subscription, schema, publisher, and subscriber.

[Create a topic](#)

[Help document](#)

Create a topic using any of the available configuration options. You can also create a subscription during the creation of a topic.

Go to Settings to activate Windows.

[Publish messages to a topic](#)

https://console.cloud.google.com/cloudpubsub/topic/create?project=nagesha-gcp-project-1

15:30 10-10-2024

Create topic - Pub/Sub - Nagesha

console.cloud.google.com/cloudpubsub/topic/create?project=nagesha-gcp-project-1

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Nagesha-GCP-Project 1

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Search

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N

Pub/Sub

Create topic

LEARN

Pub/Sub

Topics

Subscriptions

Snapshots

Schemas

Pub/Sub Lite

Lite reservations

Lite topics

Lite Subscriptions

Release notes

<|

Topic ID \*

example-topic

Topic name: projects/nagesha-gcp-project-1/topics/example-topic

☒ Add a default subscription

☐ Use a schema

☐ Enable ingestion

☐ Enable message retention

☐ Export message data to BigQuery

☐ Backup message data to Cloud Storage

Encryption

☒ Google-managed encryption key  
Keys owned by Google

☐ Cloud KMS key  
Keys owned by customers

CREATE

LEARN Tutorial

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Publish messages to a topic

Windows taskbar with icons for Start, Task View, File Explorer, Edge, Chrome, and others. System tray shows 15:30 on 10-10-2024.

Create topic - Pub/Sub - Nagesha

console.cloud.google.com/cloudpubsub/topic/create?project=nagesha-gcp-project-1

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Dismiss

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Nagesha-GCP-Project 1

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Search

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Pub/Sub

Topics

Subscriptions

Snapshots

Schemas

Pub/Sub Lite

Lite reservations

Lite topics

Lite Subscriptions

Release notes

<|

Create topic

LEARN

Topic ID \*  
example-topic

Topic name: projects/nagesha-gcp-project-1/topics/example-topic

☒ Add a default subscription

☐ Use a schema

☐ Enable ingestion

☐ Enable message retention

☐ Export message data to BigQuery

☐ Backup message data to Cloud Storage

Encryption

☒ Google-managed encryption key  
Keys owned by Google

☐ Cloud KMS key  
Keys owned by customers

PROCESSING...

LEARN Tutorial

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Help document

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Publish messages to a topic

Windows Taskbar

15:31 10-10-2024



Subscriptions - Pub/Sub - Nag

console.cloud.google.com/cloudpubsub/subscription/list?project=nagesha-gcp-project-1

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Dismiss

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Nagesha-GCP-Project 1

Search (/) for resources, docs, pr...

Search

5

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N

Pub/Sub

Subscriptions

+ CREATE SUBSCRIPTION

DELETE

SHOW INFO PANEL

Pub/Sub

Topics

Subscriptions

Snapshots

Schemas

Pub/Sub Lite

Lite reservations

Lite topics

Lite Subscriptions

Release notes

LIST

METRICS

Filter

Filter subscriptions

	State	Subscription ID ↑	Delivery type	Topic name	Ack deadline	
<input type="checkbox"/>	✓	example-topic-sub	Pull	projects/nagesh...	10 seconds	⋮

Get started with Pub/Sub subscriptions

Subscriptions are named resources that receive messages on a particular topic. A subscriber client receives messages from a subscription and processes them.

Fundamentals of a subscription

Overview of a subscription

Help document

Learn more about the workflow for a subscription, the different types of subscriptions that you can use, and what properties you must define to create a subscription.

Choose a subscription type

Help document

Choose between pull, push, and export subscriptions.

Create a subscription

Create a pull subscription

Help document

Activated Windows

Go to Settings to activate Windows

In a pull subscription, a subscriber client requests messages from the Pub/Sub server and uses one of the

https://console.cloud.google.com/cloudpubsub/subscription/create?project=nagesha-gcp-project-1

Windows taskbar with icons for Start, File Explorer, Edge, Word, and others. System tray shows time 15:31 and date 10-10-2024.

Create subscription – Pub/Sub

console.cloud.google.com/cloudpubsub/subscription/create?project=nagesha-gcp-project-1

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Dismiss

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Pub/Sub

Topics

Subscriptions

Snapshots

Schemas

Pub/Sub Lite

Lite reservations

Lite topics

Lite Subscriptions

Release notes

<|

Create subscription

A subscription directs messages on a topic to subscribers. Messages can be pushed to subscribers immediately, or subscribers can pull messages as needed.

Subscription ID \*

example-subscription

Subscription name: projects/nagesha-gcp-project-1/subscriptions/example-subscription

Select a Cloud Pub/Sub topic \*

projects/nagesha-gcp-project-1/topics/example-topic

Delivery type ?

☒ Pull

☐ Push

☐ Write to BigQuery

☐ Write to Cloud Storage

A variant of the push operation. Select this option if you want Pub/Sub to deliver messages directly to an existing BigQuery table. [Learn more](#)

A variant of the push operation. Select this option if you want Pub/Sub to deliver messages directly to an existing Cloud Storage bucket. [Learn more](#)

Message retention duration ?

LEARN Tutorial

Get started with Pub/Sub subscriptions

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Overview of a subscription

Help document

Learn more about the workflow for a subscription, the different types of subscriptions that you can use, and what properties you must define to create a subscription.

Choose a subscription type

Help document

Choose between pull, push, and export subscriptions.

Create a subscription

Create a pull subscription

Help document

Go to [Create a pull subscription](#)

Create a push subscription

Help document

Go to [Create a push subscription](#)

Windows Taskbar

15:32

10-10-2024



Create subscription – Pub/Sub

console.cloud.google.com/cloudpubsub/subscription/create?project=nagesha-gcp-project-1

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Dismiss

Activate

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Pub/Sub

Pub/Sub

Topics

Subscriptions

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Lite reservations

Lite topics

Lite Subscriptions

Release notes

Create subscription

Message ordering

☐

Order messages with an ordering key

When enabled, messages tagged with the same ordering key will be received in the order that they are published. This option cannot be changed later. Enabling message ordering may increase publish-to-subscribe latency and decrease publish availability.

Dead lettering

☐

Enable dead lettering

Subscriptions may configure a maximum number of delivery attempts. When a message cannot be delivered, it is republished to the specified dead-letter topic.

Retry policy

Retry policy will be triggered on NACKs or acknowledgement deadline exceeded events for a given message. [Learn more](#)

☒

Retry immediately

☐

Retry after exponential backoff delay

PROCESSING...

LEARN Tutorial

Get started with Pub/Sub subscriptions

Subscriptions are named resources that receive messages on a particular topic. A subscriber client receives messages from a subscription and processes them.

Fundamentals of a subscription

Overview of a subscription

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Learn more about the workflow for a subscription, the different types of subscriptions that you can use, and what properties you must define to create a subscription.

Choose a subscription type

Help document

Choose between pull, push, and export subscriptions.

Create a subscription

Create a pull subscription

Help document

Go to Settings to activate Message...

In a pull subscription, a subscriber client requests messages from the Pub/Sub server and uses one of the

Windows Taskbar

15:33 10-10-2024

Subscriptions - Pub/Sub - Nag

console.cloud.google.com/cloudpubsub/subscription/list?project=nagesha-gcp-project-1

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Search (/) for resources, docs, pr...

Search

Pub/Sub

Subscriptions

CREATE SUBSCRIPTION

DELETE

SHOW INFO PANEL

Pub/Sub

Topics

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Release notes

LIST

METRICS

Filter

Filter subscriptions

	State	Subscription ID	Delivery type	Topic name	Ack deadline	
<input type="checkbox"/>	✓	example-subscription	Pull	projects/nagesh...	10 seconds	
<input type="checkbox"/>	✓	example-topic-sub	Pull	projects/nagesh...	10 seconds	

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Get started with Pub/Sub subscriptions

Subscriptions are named resources that receive messages on a particular topic. A subscriber client receives messages from a subscription and processes them.

Fundamentals of a subscription

Overview of a subscription

Help document

Learn more about the workflow for a subscription, the different types of subscriptions that you can use, and what properties you must define to create a subscription.

Choose a subscription type

Help document

Choose between pull, push, and export subscriptions.

Create a subscription

Create a pull subscription

Help document

Active help

Go to Getting started with Pub/Sub

In a pull subscription, a subscriber client requests messages from the Pub/Sub server and uses one of the

Windows Taskbar

15:38 10-10-2024

example-subscription - Pub/Sub

console.cloud.google.com/cloudpubsub/subscription/detail/example-subscription?project=nagesha-gcp-project-1&tab=overview&cloudshell=true

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N

Pub/Sub

example-subs...

EDIT

CREATE SNAPSHOT

SHOW INFO PANEL

Pub/Sub

Topics

Subscriptions

Release notes

Subscription name

projects/nagesha-gcp-project-1/subscriptions/example-subscription

Subscription state

active

Topic name

projects/nagesha-gcp-project-1/topics/example-topic

METRICS

DETAILS

MESSAGES

CLOUD SHELL

Terminal

(nagesha-gcp-project-1)

Open editor

Welcome to Cloud Shell! Type "help" to get started.  
Your Cloud Platform project in this session is set to nagesha-gcp-project-1.  
Use "gcloud config set project [PROJECT\_ID]" to change to a different project.  
nagesha\_ks@cloudshell:~ (nagesha-gcp-project-1) \$

Activate Windows

Go to Settings to activate Windows.

15:34

10-10-2024

example-subscription - Pub/Sub

console.cloud.google.com/cloudpubsub/subscription/detail/example-subscription?project=nagesha-gcp-project-1&tab=overview&cloudshell=true&pageState={"duration":(...)

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Pub/Sub

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example-subs...

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SHOW INFO PANEL

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projects/nagesha-gcp-project-1/subscriptions/example-subscription

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Use "gcloud config set project [PROJECT\_ID]" to change to a different project.  
nagesha\_ks@cloudshell:~ (nagesha-gcp-project-1) \$ gcloud pubsub topics publish example-topic --message="Message 1: Hello from Pub/Sub"  
messageIds:  
- '12663980230657101'  
nagesha\_ks@cloudshell:~ (nagesha-gcp-project-1) \$

Activate Windows  
Go to Settings to activate Windows.

Windows taskbar with icons for Start, Task View, File Explorer, Edge, Chrome, and others. System tray shows time 15:35 and date 10-10-2024.



example-subscription - Pub/Sub

console.cloud.google.com/cloudpubsub/subscription/detail/example-subscription?project=nagesha-gcp-project-1&tab=overview&cloudshell=true&pageState=({"duration":(...

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Pub/Sub

example-subs...

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Pub/Sub

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projects/nagesha-gcp-project-1/topics/example-topic

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- '12663980230657101'  
nagesha\_ks@cloudshell:~ (nagesha-gcp-project-1)\$ gcloud pubsub topics publish example-topic --message="Message 2: Google Cloud is awesome and Intellipaat is awesome"  
messageIds:  
- '12663969636440483'  
nagesha\_ks@cloudshell:~ (nagesha-gcp-project-1)\$

Activate Windows  
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Windows taskbar with icons for Start, Task View, File Explorer, Edge, Chrome, and others.

System tray showing time 15:36 and date 10-10-2024.

example-subscription - Pub/Sub

console.cloud.google.com/cloudpubsub/subscription/detail/example-subscription?project=nagesha-gcp-project-1&tab=overview&cloudshell=true&pageState=({"duration":{...}}

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Pub/Sub

example-subs...

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nagesha\_ks@cloudshell:~ (nagesha-gcp-project-1)\$ gcloud pubsub topics publish example-topic --message="Message 2: Google Cloud is awesome and Intellipaat is awesome"  
messageIds:  
- '12663969636440483'  
nagesha\_ks@cloudshell:~ (nagesha-gcp-project-1)\$ gcloud pubsub topics publish example-topic --message="Message 3: Exploring Pub/Sub"  
messageIds:  
- '12664098173554907'  
nagesha\_ks@cloudshell:~ (nagesha-gcp-project-1)\$

Activate Windows  
Go to Settings to activate Windows.

Windows taskbar with icons for File Explorer, Edge, Chrome, and others.

System tray showing time 15:36 and date 10-10-2024.



example-subscription - Pub/Sub

console.cloud.google.com/cloudpubsub/subscription/detail/example-subscription?project=nagesha-gcp-project-1&tab=overview&cloudshell=true&pageState=({\"duration\":(...

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Pub/Sub

example-subs

EDIT

CREATE SNAPSHOT

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(nagesha-gcp-project-1)

Open editor

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- '12663980230657101'  
nagesha\_ks@cloudshell:~ (nagesha-gcp-project-1)\$ gcloud pubsub topics publish example-topic --message="Message 2: Google Cloud is awesome and Intellipaat is awesome"  
messageIds:  
- '12663969636440483'  
nagesha\_ks@cloudshell:~ (nagesha-gcp-project-1)\$ gcloud pubsub topics publish example-topic --message="Message 3: Exploring Pub/Sub"  
messageIds:  
- '12664098173554907'  
nagesha\_ks@cloudshell:~ (nagesha-gcp-project-1)\$ gcloud pubsub subscriptions pull example-subscription --auto-ack --limit=3  
DATA: Message 1: Hello from Pub/Sub  
MESSAGE ID: 12663980230657101  
ORDERING KEY:  
ATTRIBUTES:  
DELIVERY\_ATTEMPT:  
ACK\_STATUS: SUCCESS  
  
DATA: Message 2: Google Cloud is awesome and Intellipaat is awesome  
MESSAGE ID: 12663969636440483  
ORDERING KEY:  
ATTRIBUTES:  
DELIVERY\_ATTEMPT:  
ACK\_STATUS: SUCCESS  
  
DATA: Message 3: Exploring Pub/Sub  
MESSAGE ID: 12664098173554907  
ORDERING KEY:  
ATTRIBUTES:  
DELIVERY\_ATTEMPT:  
ACK\_STATUS: SUCCESS  
nagesha\_ks@cloudshell:~ (nagesha-gcp-project-1)\$

Get started with Pub/Sub subscriptions  
Subscriptions are named resources that

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System tray showing time 15:37 and date 10-10-2024.



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Google Cloud

Nagesha-GCP-Project 1

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# Welcome, Nagesha K S

## You're in free trial



₹57 out of ₹25,093 credits used

Expires 4 January 2025

[What happens when trial ends?](#)

ACTIVATE FULL ACCOUNT

You're working on project [Nagesha-GCP-Project 1](#)

Number: 872634317172 ID: nagesha-gcp-project-1

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## Commands

**Created a CSV file named example\_data.csv locally on your machine (Dates Ranging from 1999-2010)**

**csv file as follows:**

```
id,date
1,1999-01-01
2,1999-06-15
3,2000-03-05
4,2000-07-22
5,2001-02-10
6,2001-09-30
7,2002-04-12
8,2002-11-27
9,2003-06-18
10,2003-12-01
11,2004-05-09
12,2004-10-16
13,2005-03-25
14,2005-08-20
15,2006-07-17
16,2006-12-19
17,2007-05-10
18,2008-09-25
19,2009-11-11
20,2010-02-28
```

Saved this file in my local drive.

## Upload the First 10 Records into the Main Table

**Goto BigQuery > create new dataset named csv\_data\_example**

**Goto BigQuery > create new table named csv\_data\_example\_table**

For **schema**, two fields:

id (INTEGER)

date (DATE)

**Uploaded Data** the CSV file with first 10 records

**Create a new file called example\_data\_first\_10.csv and include the first 10 records from the original CSV.**

**csv file as follows:**

id,date

1,1999-01-01

2,1999-06-15

3,2000-03-05

4,2000-07-22

5,2001-02-10

6,2001-09-30

7,2002-04-12

8,2002-11-27

9,2003-06-18

10,2003-12-01

**Create a Partitioned Table (For Records from 1999-2005)**

Goto BigQuery>dataset csv\_data\_example > create a new table partition\_table

**same schema** as the main table (id, date).

**Partition** the table based on the date field. Partition set to YEAR.

**Uploaded Data** the CSV file from 1999-2005 into the partitioned table.

**Create a new file called example\_data\_1999\_2005.csv with the relevant records.**

**csv file as follows:**

id,date

1,1999-01-01

2,1999-06-15

3,2000-03-05

4,2000-07-22

5,2001-02-10  
6,2001-09-30  
7,2002-04-12  
8,2002-11-27  
9,2003-06-18  
10,2003-12-01  
11,2004-05-09  
12,2004-10-16  
13,2005-03-25  
14,2005-08-20

Go to the Pub/Sub section in GCP Console > Create topic example-topic.

**gcloud pubsub topics create example-topic**

Go to the Pub/Sub section in GCP Console > Create subscription example-subscription.

**Publish 3 messages to the topic example-topic.**

gcloud pubsub topics publish example-topic --message="Message 1: Hello from Pub/Sub"

gcloud pubsub topics publish example-topic --message="Message 2: Google Cloud is awesome and Intellipaat is awesome"

gcloud pubsub topics publish example-topic --message="Message 3: Exploring Pub/Sub"

Cloud Shell to consume these messages and acknowledge the receipt of the message with **auto-acknowledge**.

**gcloud pubsub subscriptions pull example-subscription --auto-ack --limit=3**