GCP Architect Training

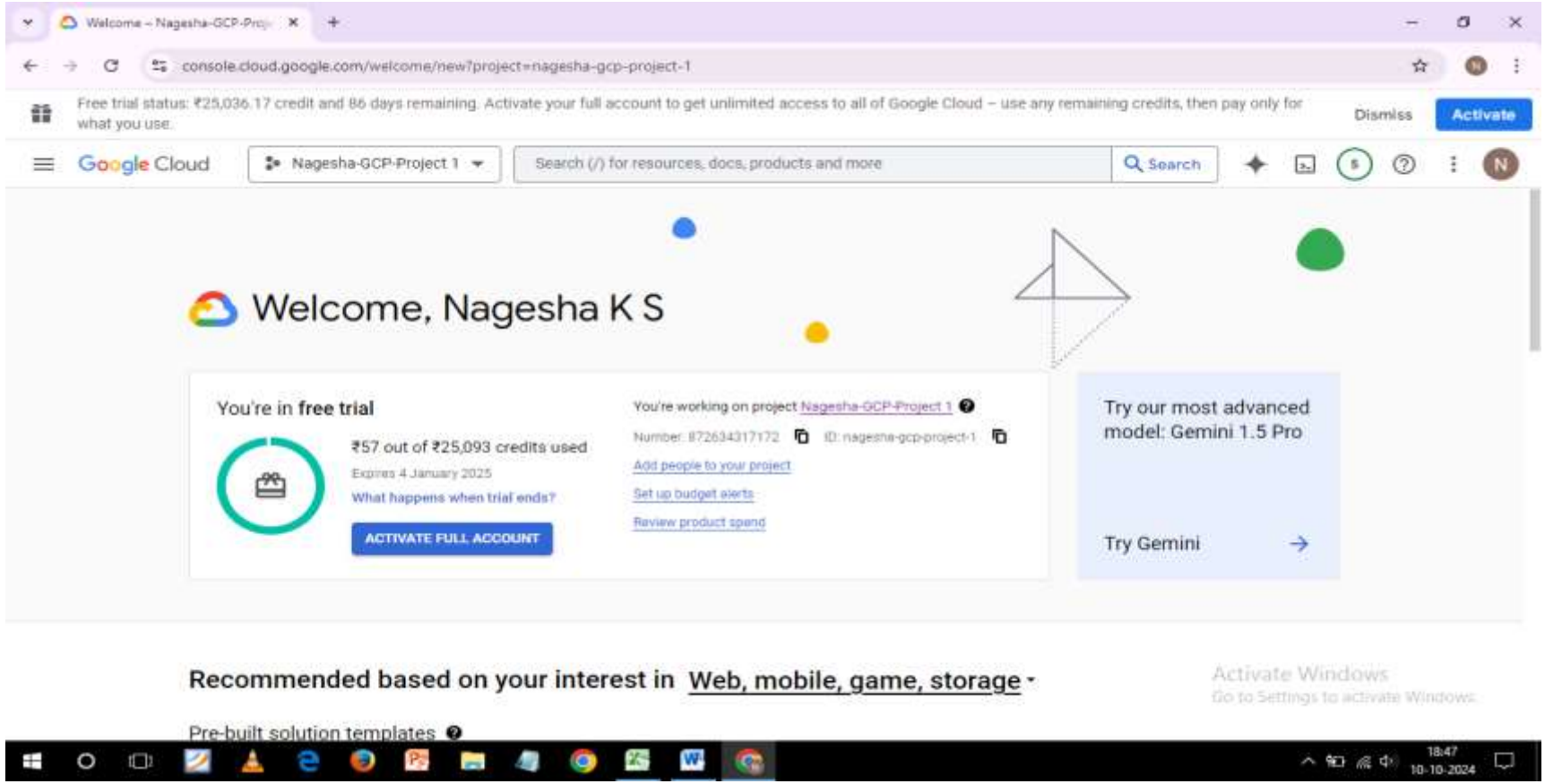
support@intellipaat.com - +91-7022374614 - US: 1-800-216-8930 (Toll Free)

GCP-Module-3-Assignment-2-GCP Storage COMPLETED by Nagesha KS

Please check the following screenshots for each question.

Tasks To Be Performed:

1. Download this SQL-file on your system.
2. Create a bucket on Google storage for each of the following:
   - Hot
   - Cold
   - Multi Region
3. Upload the SQL-file in each of the regions, and compare the download from all the buckets.
4. The bucket with the lowest latency, use it to import this database to Cloud SQL.


Welcome – Nagesha-GCP-Proj
console.cloud.google.com/welcome/new?project=nagesha-gcp-project-1
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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Welcome, Nagesha K S
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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
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
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18:47
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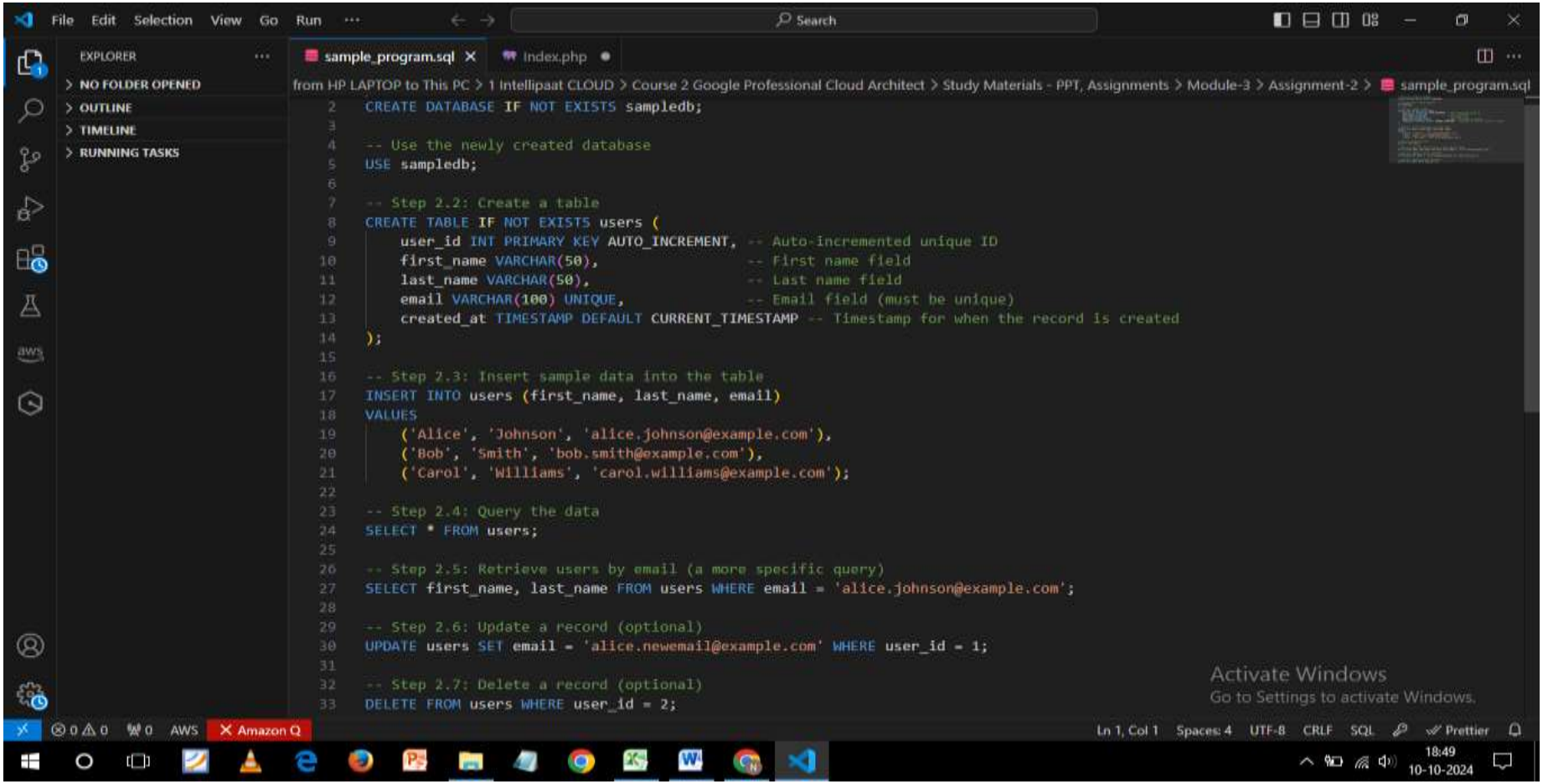
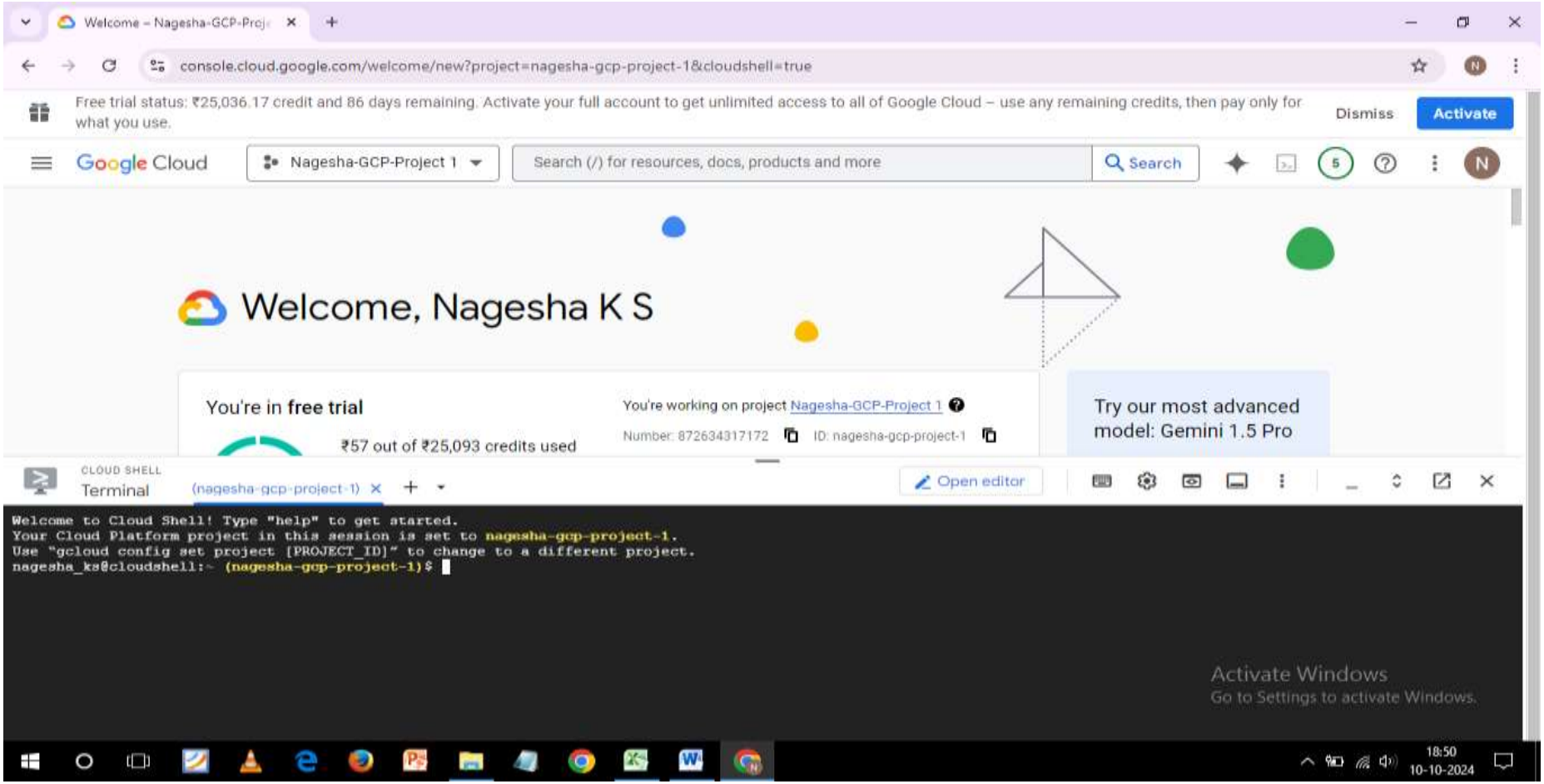

File Edit Selection View Go Run
Search
EXPLORER
NO FOLDER OPENED
OUTLINE
TIMELINE
RUNNING TASKS
sample_program.sql
index.php
from HP LAPTOP to This PC > 1 Intellipaat CLOUD > Course 2 Google Professional Cloud Architect > Study Materials - PPT, Assignments > Module-3 > Assignment-2 > sample_program.sql
CREATE DATABASE IF NOT EXISTS sampledb;
-- Use the newly created database
USE sampledb;
-- Step 2.2: Create a table
CREATE TABLE IF NOT EXISTS users (
user_id INT PRIMARY KEY AUTO_INCREMENT, -- Auto-incremented unique ID
first_name VARCHAR(50), -- First name field
last_name VARCHAR(50), -- Last name field
email VARCHAR(100) UNIQUE, -- Email field (must be unique)
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP -- Timestamp for when the record is created
);
-- Step 2.3: Insert sample data into the table
INSERT INTO users (first_name, last_name, email)
VALUES
('Alice', 'Johnson', 'alice.johnson@example.com'),
('Bob', 'Smith', 'bob.smith@example.com'),
('Carol', 'Williams', 'carol.williams@example.com');
-- Step 2.4: Query the data
SELECT * FROM users;
-- Step 2.5: Retrieve users by email (a more specific query)
SELECT first_name, last_name FROM users WHERE email = 'alice.johnson@example.com';
-- Step 2.6: Update a record (optional)
UPDATE users SET email = 'alice.newemail@example.com' WHERE user_id = 1;
-- Step 2.7: Delete a record (optional)
DELETE FROM users WHERE user_id = 2;
Activate Windows
Go to Settings to activate Windows.
AWS
Amazon Q
Ln 1, Col 1 Spaces: 4 UTF-8 CRLF SQL Prettier
18:49
10-10-2024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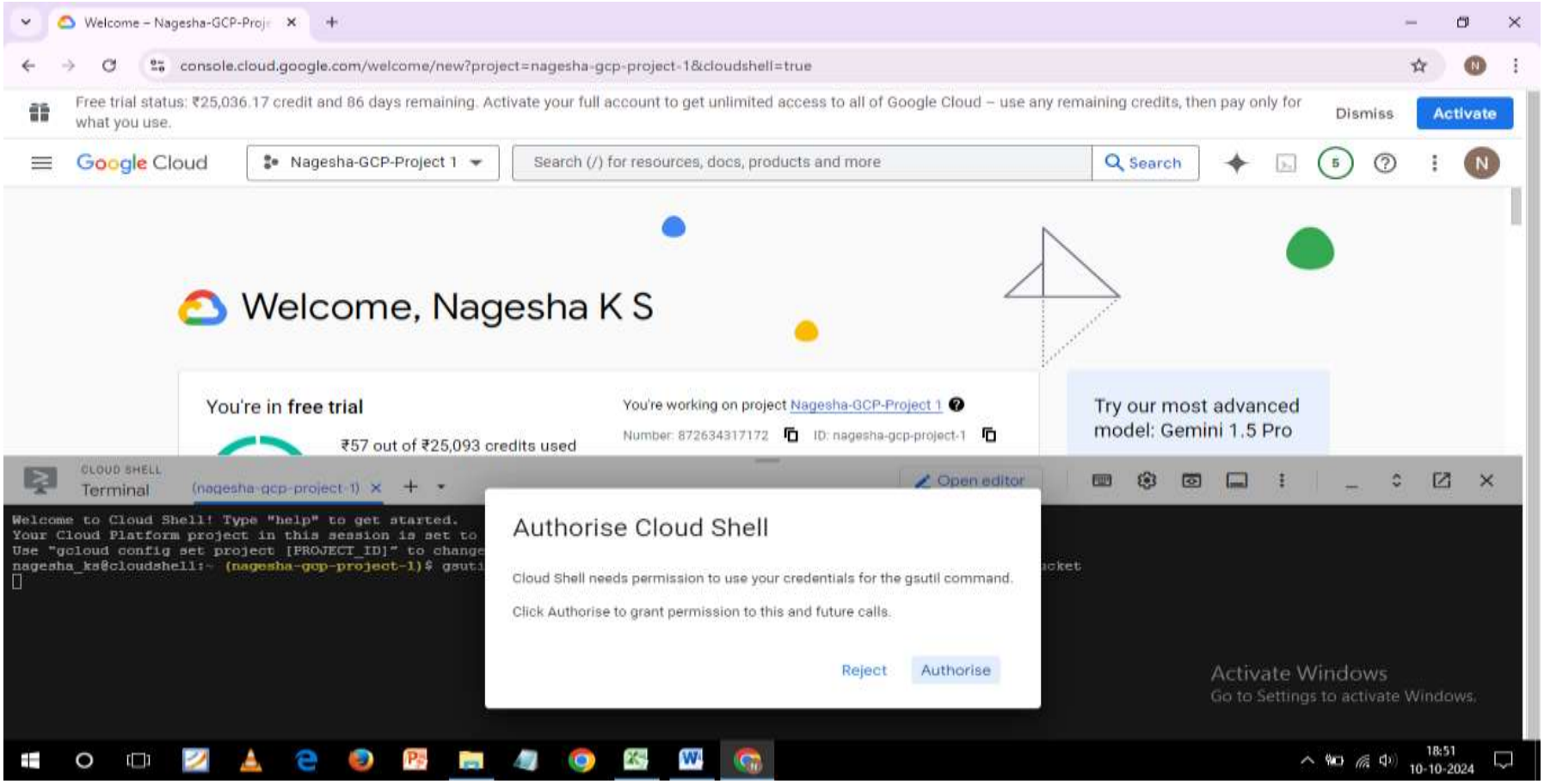
ID: nagesha-gcp-project-1
Try our most advanced model: Gemini 1.5 Pro
CLOUD SHELL
Terminal
(nagesha-gcp-project-1)
Open editor
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to nagesha-gcp-project-1.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$
Activate Windows
Go to Settings to activate Windows.
18:50
10-10-2024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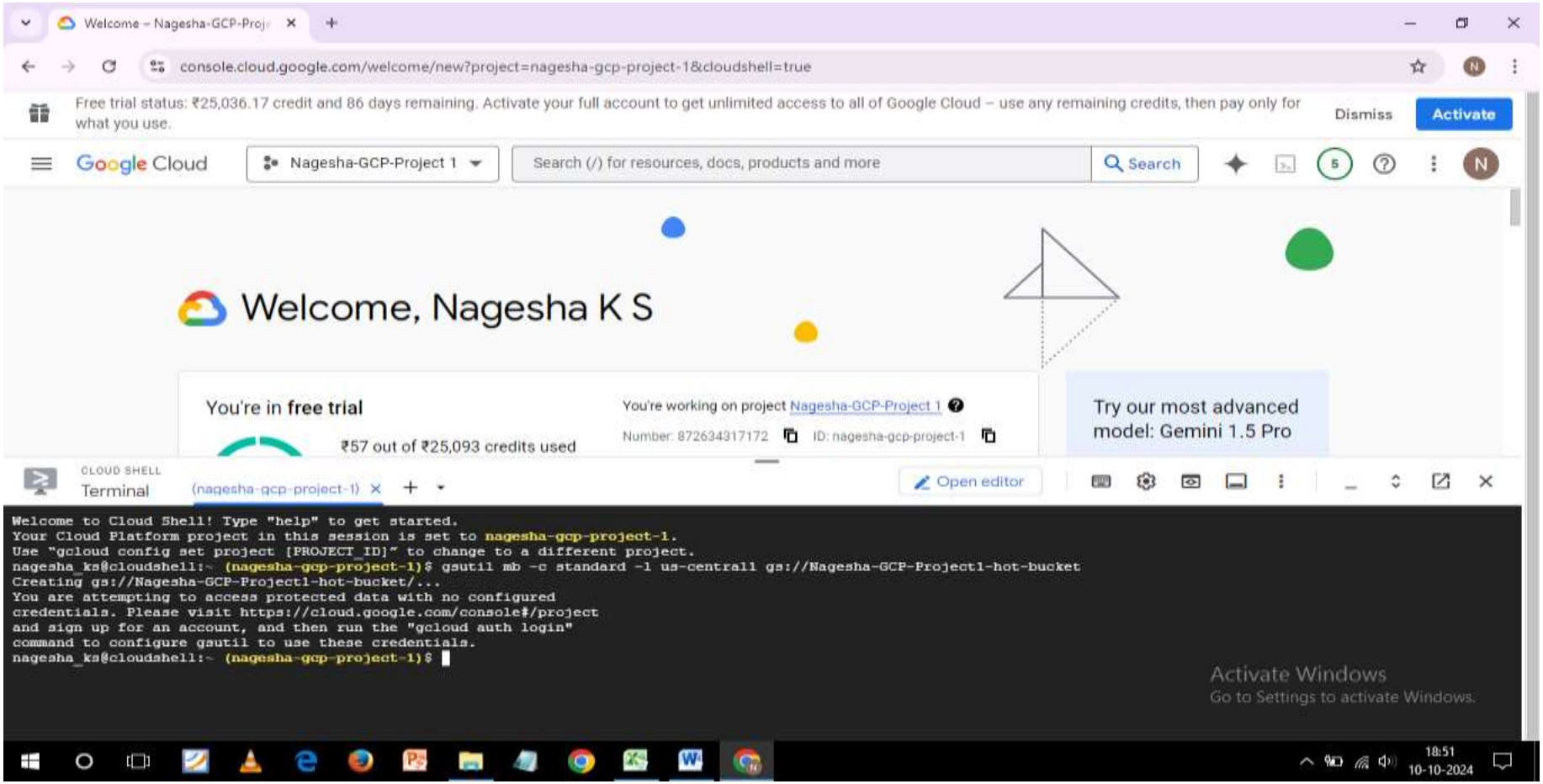
Use "gcloud config set project [PROJECT_ID]" to change
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gsuti
Authorise Cloud Shell
Cloud Shell needs permission to use your credentials for the gsutil command.
Click Authorise to grant permission to this and future calls.
Reject
Authorise
Activate Windows
Go to Settings to activate Windows.
18:51
10-10-2024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nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gsutil mb -c standard -l us-central1 gs://Nagesha-GCP-Project1-hot-bucket
Creating gs://Nagesha-GCP-Project1-hot-bucket/...
You are attempting to access protected data with no configured
credentials. Please visit https://cloud.google.com/console#/project
and sign up for an account, and then run the "gcloud auth login"
command to configure gsutil to use these credentials.
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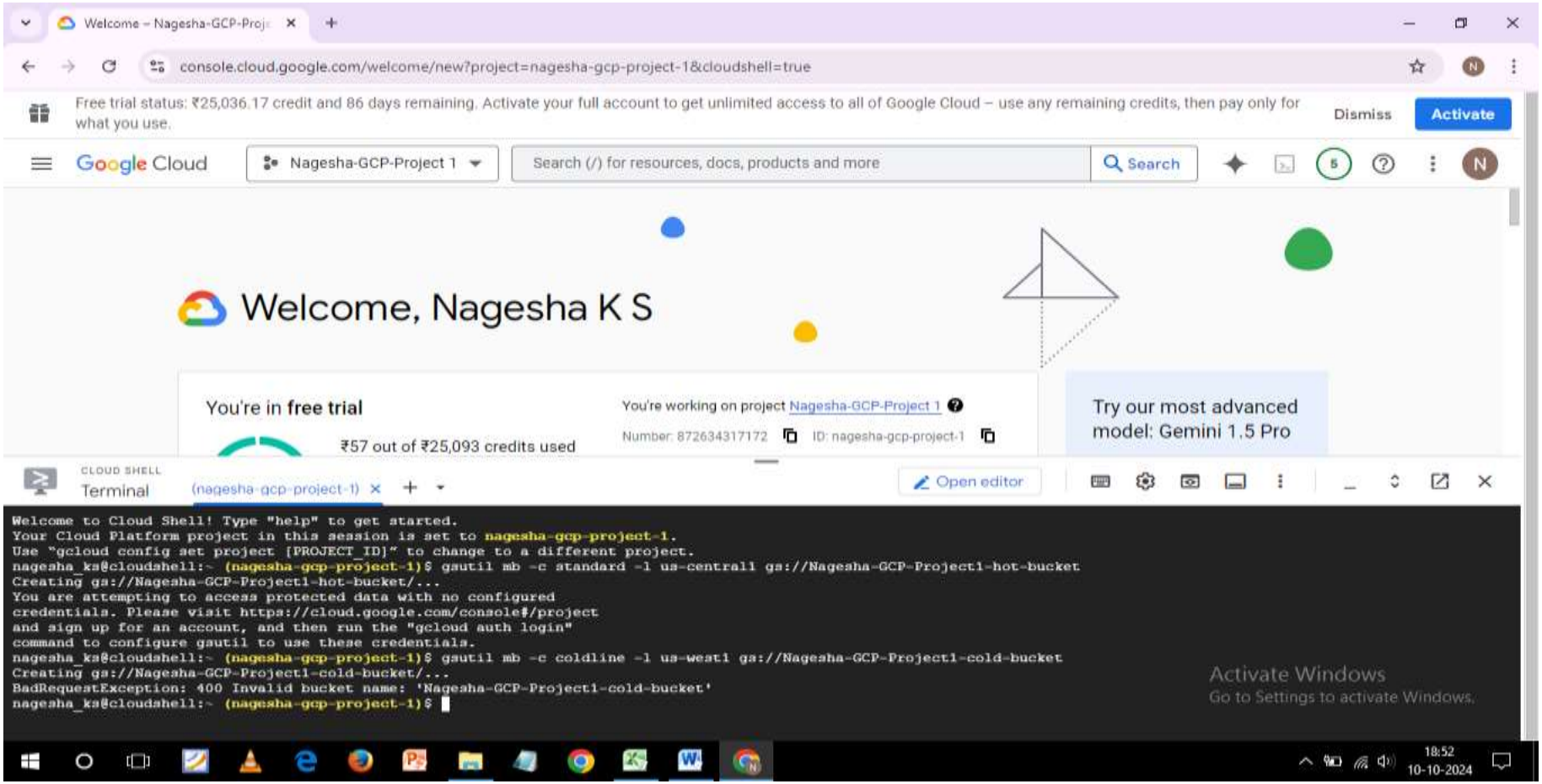
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command to configure gsutil to use these credentials.
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gsutil mb -c coldline -l us-west1 gs://Nagesha-GCP-Project1-cold-bucket
Creating gs://Nagesha-GCP-Project1-cold-bucket/...
BadRequestException: 400 Invalid bucket name: 'Nagesha-GCP-Project1-cold-bucket'
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$
Activate Windows
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18:52
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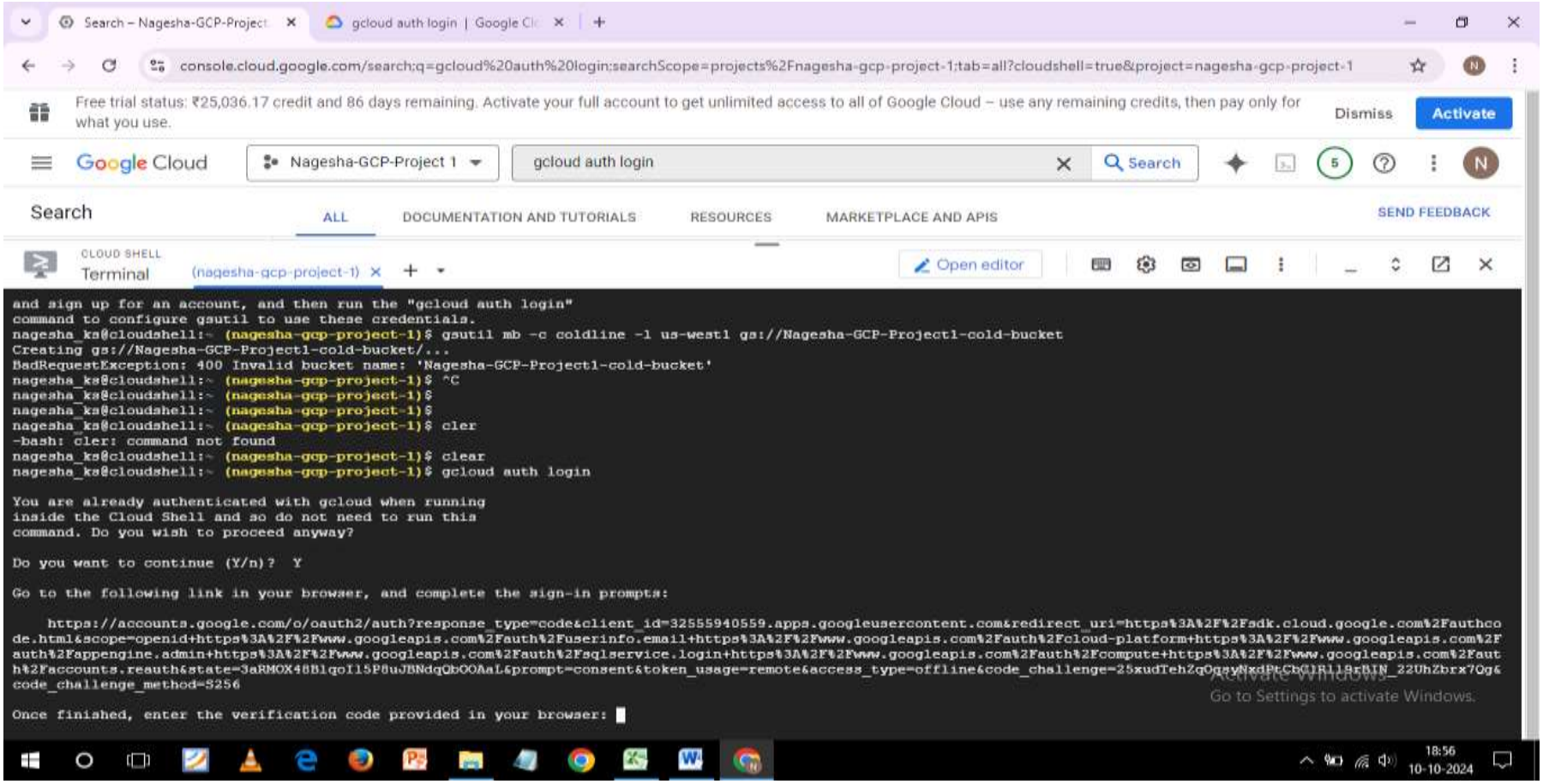
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Creating gs://Nagesha-GCP-Project1-cold-bucket/...
BadRequestException: 400 Invalid bucket name: 'Nagesha-GCP-Project1-cold-bucket'
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ ^C
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ cler
-bash: cler: command not found
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ clear
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gcloud auth login
You are already authenticated with gcloud when running
inside the Cloud Shell and so do not need to run this
command. Do you wish to proceed anyway?
Do you want to continue (Y/n)? Y
Go to the following link in your browser, and complete the sign-in prompts:
https://accounts.google.com/o/oauth2/auth?response_type=code&client_id=32555940559.apps.googleusercontent.com&redirect_uri=https%3A%2F%2Fsdk.cloud.google.com%2Fauthcode.html&scope=openid+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fuserinfo.email+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloud-platform+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fappengine.admin+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fsqlservice.login+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcompute+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Faccounts.reauth&state=3aRMOX40BlqoIl5P8uJBNdqQbOOAaL&prompt=consent&token_usage=remote&access_type=offline&code_challenge=25xudTehZqOqsyNxdPtCbGlRl18rBIN_22UhZbrx7Qg&code_challenge_method=S256
Once finished, enter the verification code provided in your browser:
Activate Windows
Go to Settings to activate Windows.
18:56
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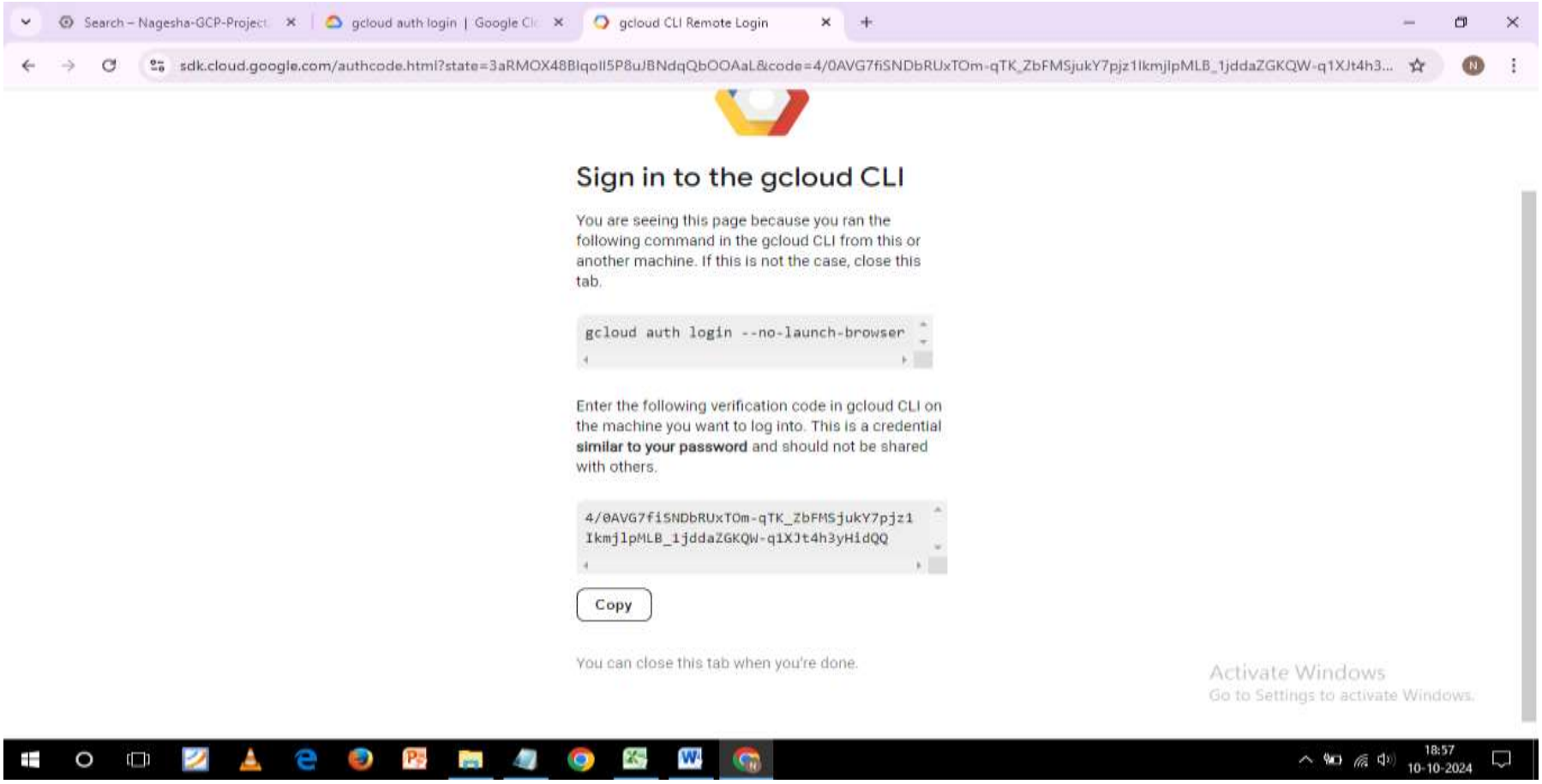
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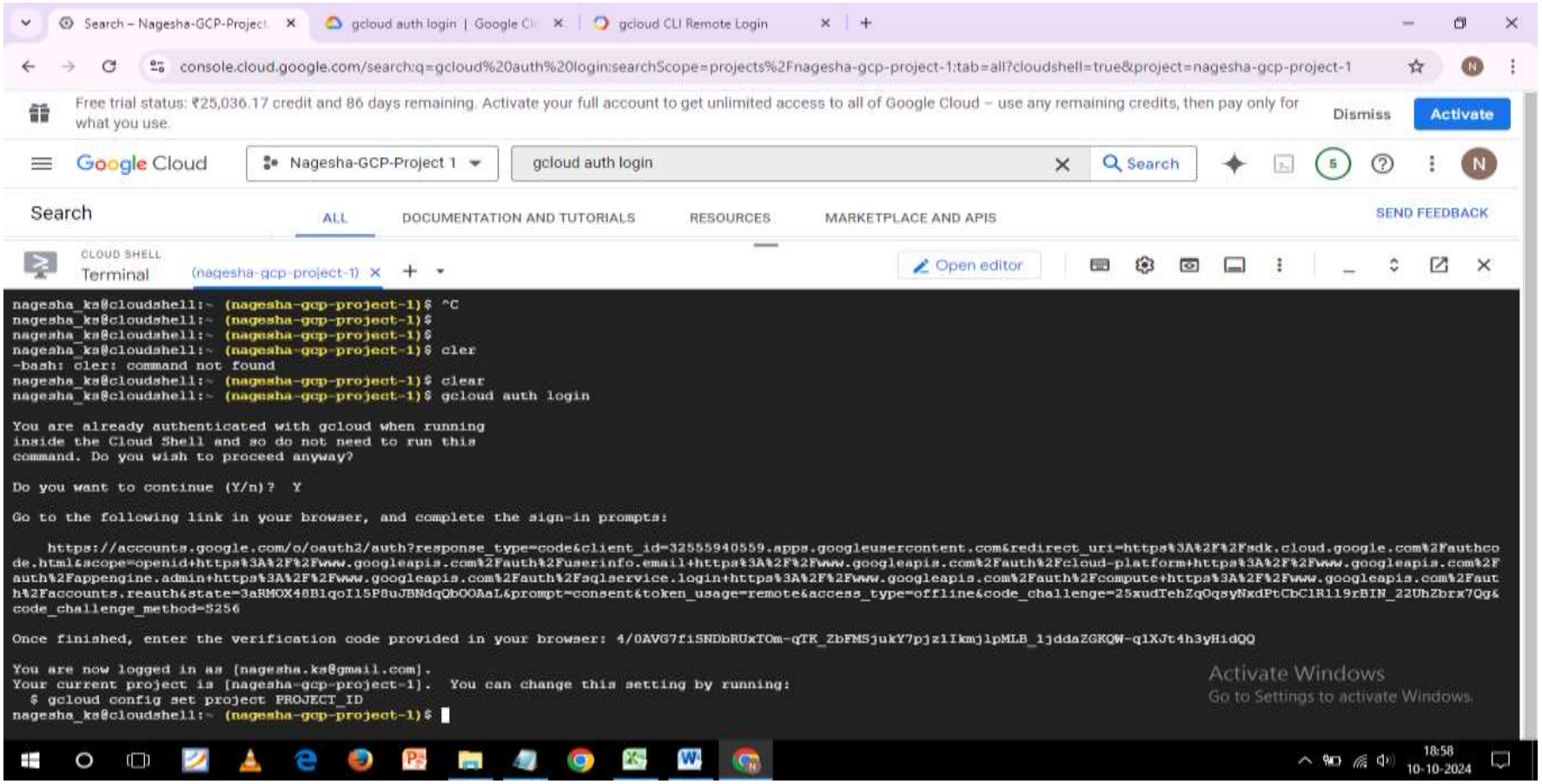
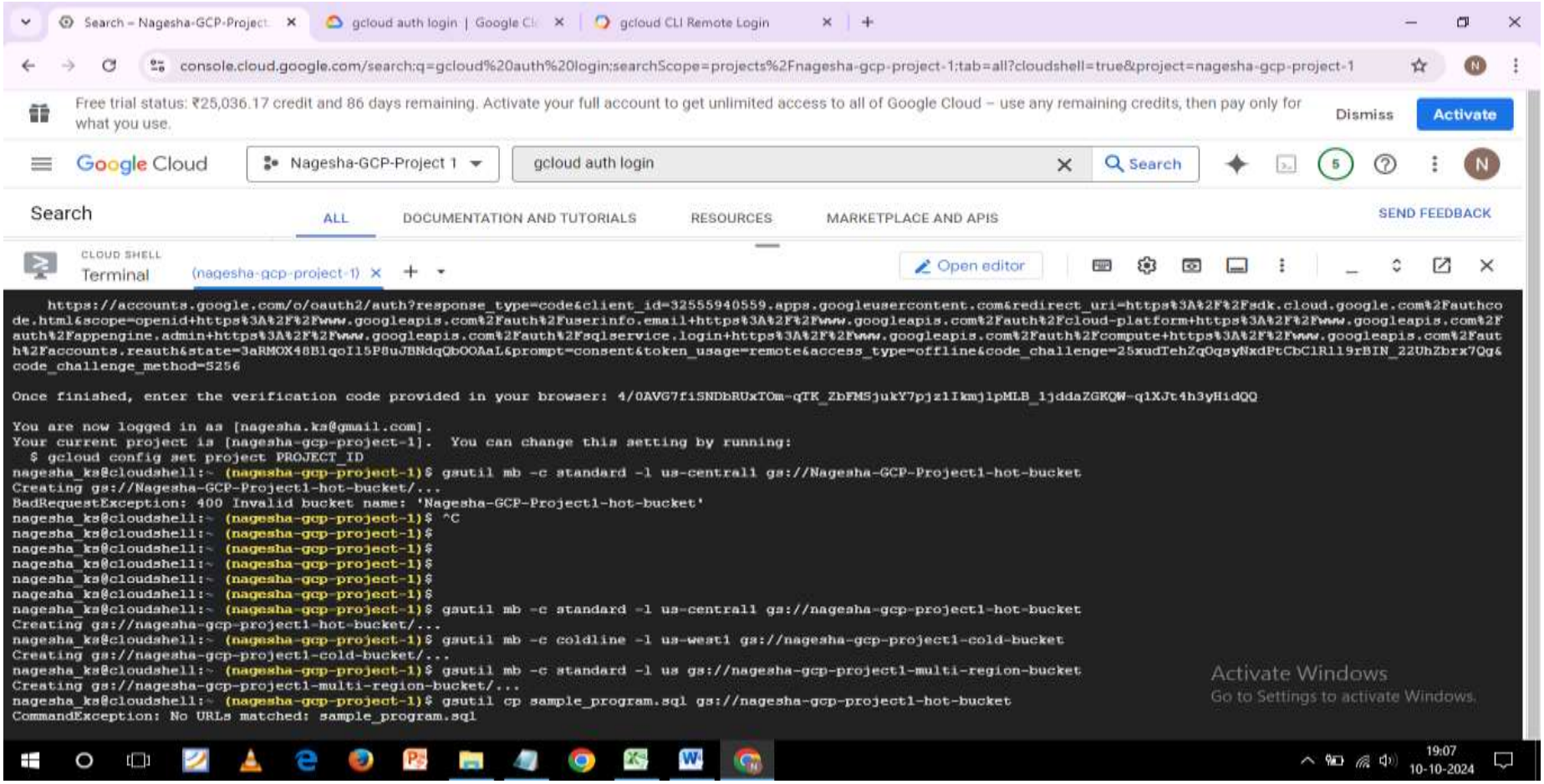
sdk.cloud.google.com/authcode.html?state=3aRMOX48BlqoII5P8uJBNdqQbOOAaL&code=4/0AVG7fiSNDbRUxTOm-qTK_ZbFMSjukY7pjz1IkmjlpMLB_1jddaZGKQW-q1XJt4h3...
Sign in to the gcloud CLI
You are seeing this page because you ran the following command in the gcloud CLI from this or another machine. If this is not the case, close this tab.
gcloud auth login --no-launch-browser
Enter the following verification code in gcloud CLI on the machine you want to log into. This is a credential similar to your password and should not be shared with others.
4/0AVG7fiSNDbRUxTOm-qTK_ZbFMSjukY7pjz1
IkmjlpMLB_1jddaZGKQW-q1XJt4h3yHidQQ
Copy
You can close this tab when you're done.
Activate Windows
Go to Settings to activate Windows.
18:57
10-10-2024

4/0AVG7fiSNDbRUxTOm-qTK_ZbFMSjukY7pjz1IkmjlpMLB_1jddaZGKQW-q1XJt4h3yHidQQ

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gcloud auth login | Google Cl
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console.cloud.google.com/search;q=gcloud%20auth%20login;searchScope=projects%2Fnagesha-gcp-project-1;tab=all?cloudshell=true&project=nagesha-gcp-project-1
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https://accounts.google.com/o/oauth2/auth?response_type=code&client_id=32555940559.apps.googleusercontent.com&redirect_uri=https%3A%2F%2Fsdk.cloud.google.com%2Fauthcode.html&scope=openid+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fuserinfo.email+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloud-platform+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fappengine.admin+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fsqlservice.login+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcompute+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Faccounts.reauth&state=3aRMOX48BlqoI15P8uJBNdqQbOOAaL&prompt=consent&token_usage=remote&access_type=offline&code_challenge=25xudTehZqOqsyNxdPtCbC1Rl19rBIN_22UhZbrx7Qg&code_challenge_method=S256
Once finished, enter the verification code provided in your browser: 4/0AVG7fiSNDbRUxTOm-qTK_ZbFMSjukY7pjz1IkmjlpMLB_1jddaZGKQW-q1XJt4h3yHidQQ
You are now logged in as [nagesha.ks@gmail.com].
Your current project is [nagesha-gcp-project-1]. You can change this setting by running:
$ gcloud config set project PROJECT_ID
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gsutil mb -c standard -l us-central1 gs://Nagesha-GCP-Project1-hot-bucket
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Creating gs://nagesha-gcp-project1-cold-bucket/...
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gsutil mb -c standard -l us gs://nagesha-gcp-project1-multi-region-bucket
Creating gs://nagesha-gcp-project1-multi-region-bucket/...
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gsutil cp sample_program.sql gs://nagesha-gcp-project1-hot-bucket
CommandException: No URLs matched: sample_program.sql
Activate Windows
Go to Settings to activate Windows.
19:07
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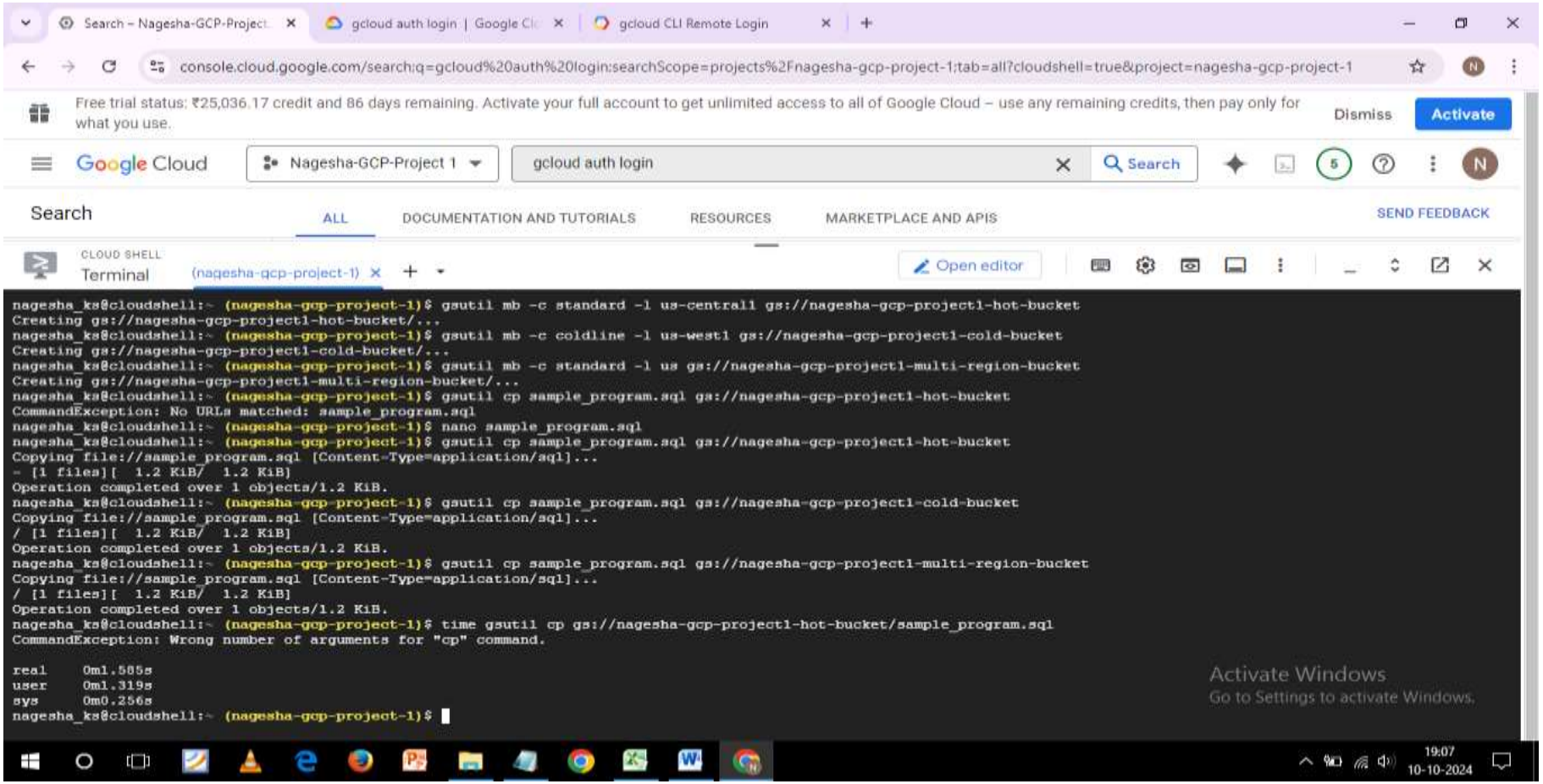
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nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gsutil mb -c standard -l us gs://nagesha-gcp-project1-multi-region-bucket
Creating gs://nagesha-gcp-project1-multi-region-bucket/...
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gsutil cp sample_program.sql gs://nagesha-gcp-project1-hot-bucket
CommandException: No URLs matched: sample_program.sql
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ nano sample_program.sql
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gsutil cp sample_program.sql gs://nagesha-gcp-project1-hot-bucket
Copying file://sample_program.sql [Content-Type=application/sql]...
- [1 files][1.2 KiB/ 1.2 KiB]
Operation completed over 1 objects/1.2 KiB.
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gsutil cp sample_program.sql gs://nagesha-gcp-project1-cold-bucket
Copying file://sample_program.sql [Content-Type=application/sql]...
/ [1 files][1.2 KiB/ 1.2 KiB]
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Copying file://sample_program.sql [Content-Type=application/sql]...
/ [1 files][1.2 KiB/ 1.2 KiB]
Operation completed over 1 objects/1.2 KiB.
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ time gsutil cp gs://nagesha-gcp-project1-hot-bucket/sample_program.sql
CommandException: Wrong number of arguments for "cp" command.
real 0m1.585s
user 0m1.319s
sys 0m0.256s
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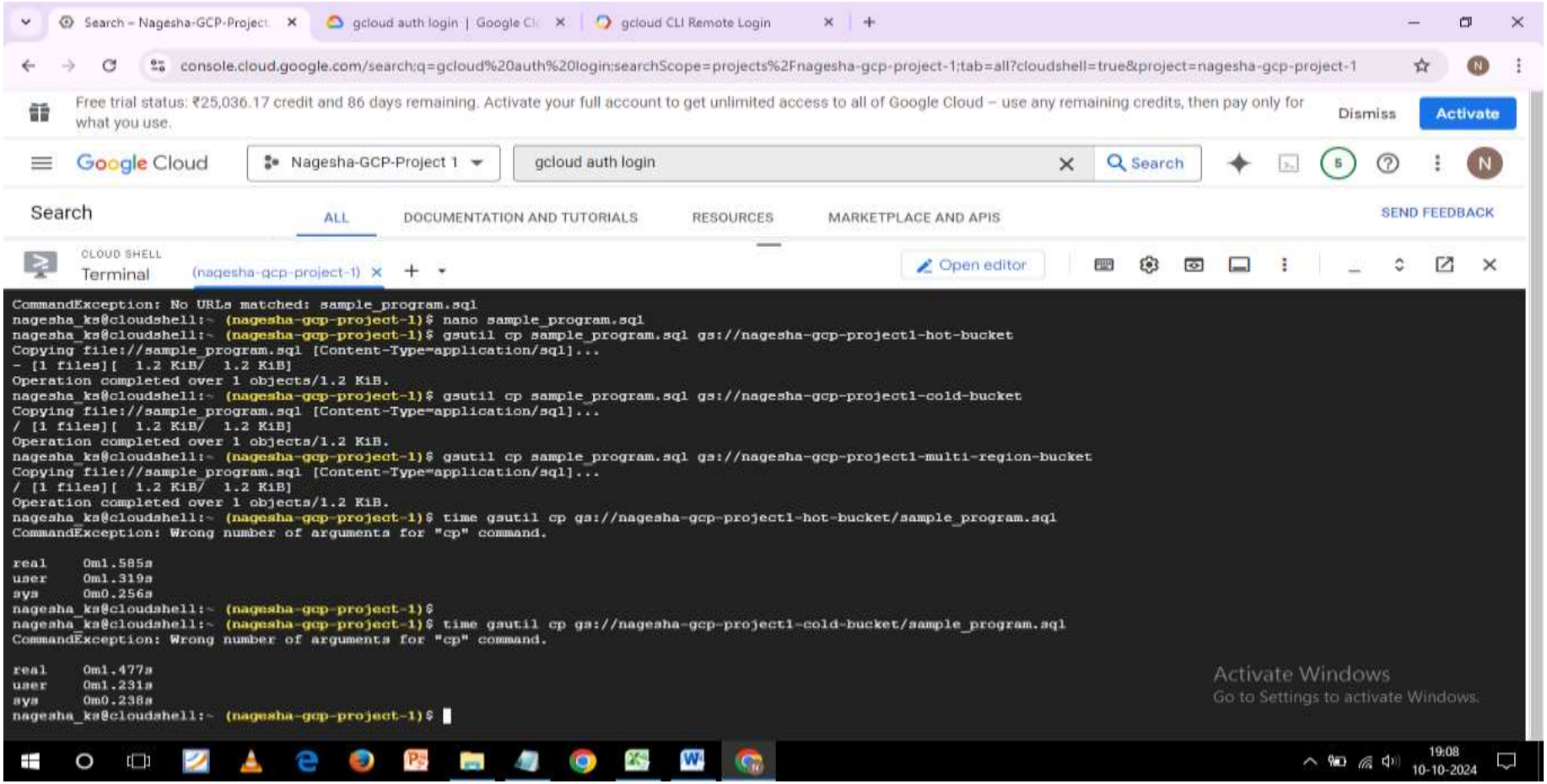
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gcloud auth login | Google Cl
gcloud CLI Remote Login
console.cloud.google.com/search;q=gcloud%20auth%20login;searchScope=projects%2Fnagesha-gcp-project-1;tab=all?cloudshell=true&project=nagesha-gcp-project-1
Free trial status: ₹25,036.17 credit and 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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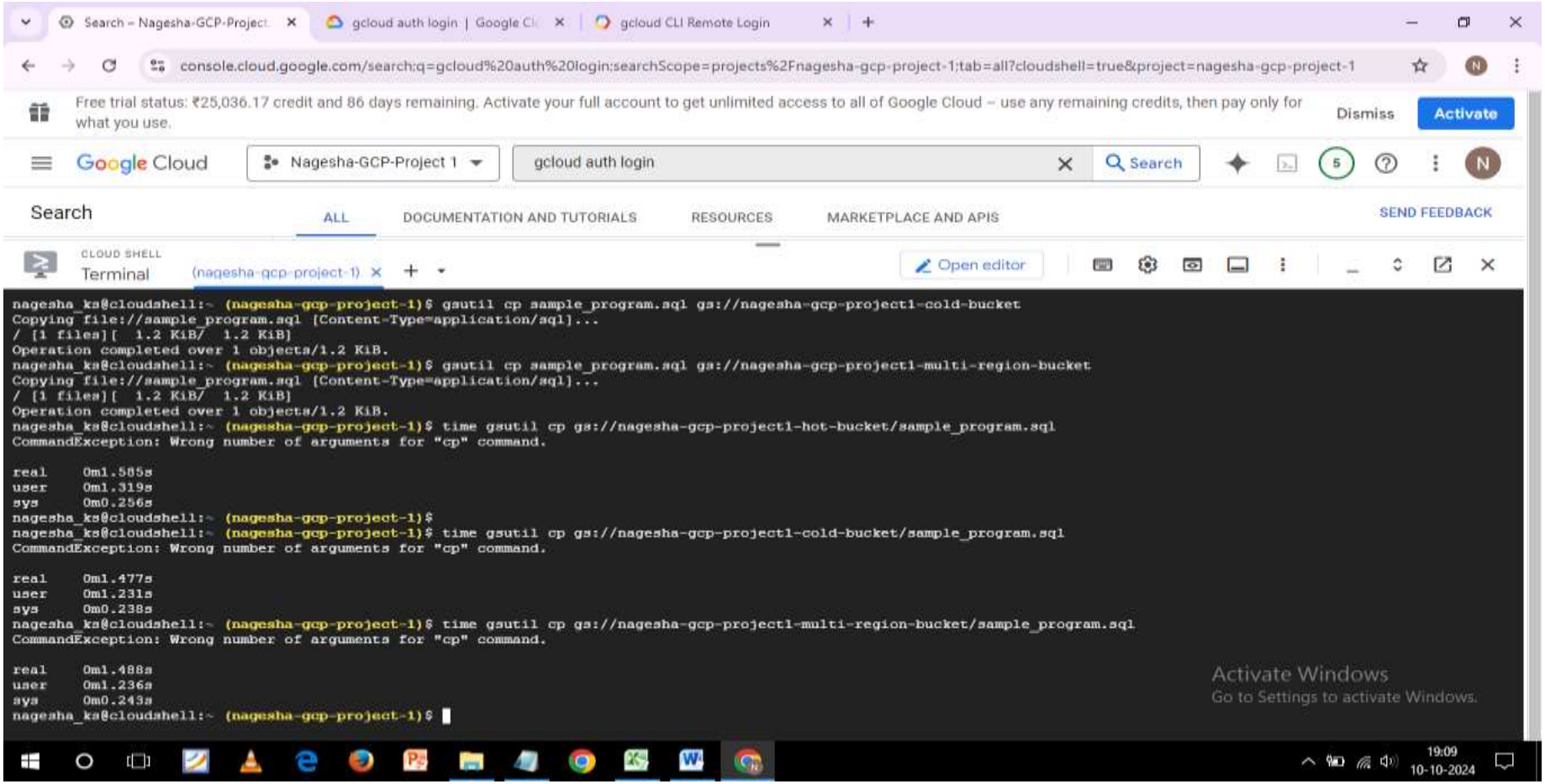
RESOURCES
MARKETPLACE AND APIS
SEND FEEDBACK
CLOUD SHELL
Terminal
(nagesha-gcp-project-1)
Open editor
CommandException: No URLs matched: sample_program.sql
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ nano sample_program.sql
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gsutil cp sample_program.sql gs://nagesha-gcp-project1-hot-bucket
Copying file://sample_program.sql [Content-Type=application/sql]...
- [1 files][1.2 KiB/ 1.2 KiB]
Operation completed over 1 objects/1.2 KiB.
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gsutil cp sample_program.sql gs://nagesha-gcp-project1-cold-bucket
Copying file://sample_program.sql [Content-Type=application/sql]...
/ [1 files][1.2 KiB/ 1.2 KiB]
Operation completed over 1 objects/1.2 KiB.
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gsutil cp sample_program.sql gs://nagesha-gcp-project1-multi-region-bucket
Copying file://sample_program.sql [Content-Type=application/sql]...
/ [1 files][1.2 KiB/ 1.2 KiB]
Operation completed over 1 objects/1.2 KiB.
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ time gsutil cp gs://nagesha-gcp-project1-hot-bucket/sample_program.sql
CommandException: Wrong number of arguments for "cp" command.
real 0m1.585s
user 0m1.319s
sys 0m0.256s
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ time gsutil cp gs://nagesha-gcp-project1-cold-bucket/sample_program.sql
CommandException: Wrong number of arguments for "cp" command.
real 0m1.477s
user 0m1.231s
sys 0m0.238s
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$
Activate Windows
Go to Settings to activate Windows.
19:08
10-10-2024


Search – Nagesha-GCP-Project
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gcloud CLI Remote Login
console.cloud.google.com/search;q=gcloud%20auth%20login;searchScope=projects%2Fnagesha-gcp-project-1;tab=all?cloudshell=true&project=nagesha-gcp-project-1
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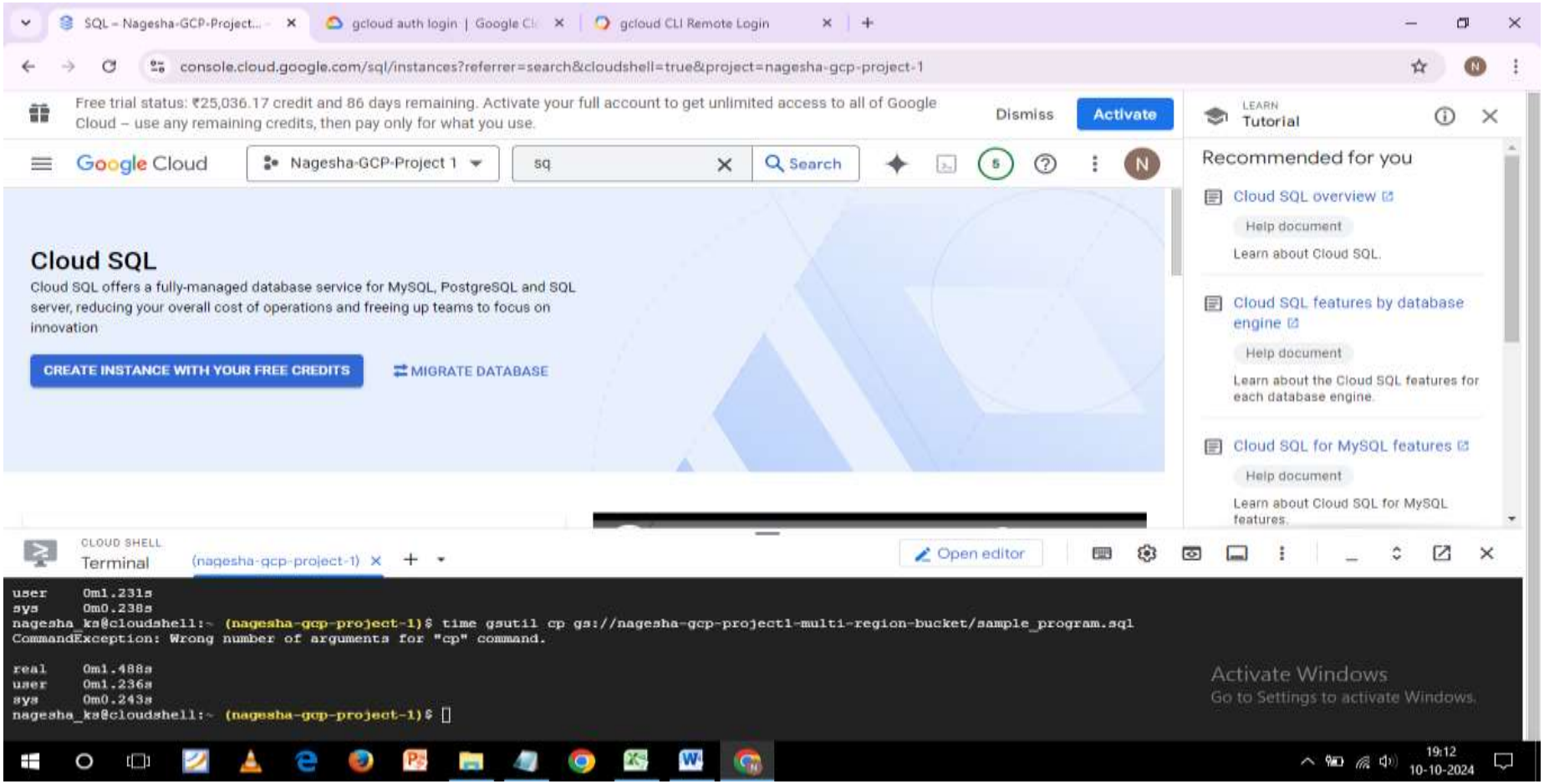
SEND FEEDBACK
CLOUD SHELL
Terminal
(nagesha-gcp-project-1)
Open editor
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gsutil cp sample_program.sql gs://nagesha-gcp-project1-cold-bucket
Copying file://sample_program.sql [Content-Type=application/sql]...
/ [1 files][1.2 KiB/ 1.2 KiB]
Operation completed over 1 objects/1.2 KiB.
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ gsutil cp sample_program.sql gs://nagesha-gcp-project1-multi-region-bucket
Copying file://sample_program.sql [Content-Type=application/sql]...
/ [1 files][1.2 KiB/ 1.2 KiB]
Operation completed over 1 objects/1.2 KiB.
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ time gsutil cp gs://nagesha-gcp-project1-hot-bucket/sample_program.sql
CommandException: Wrong number of arguments for "cp" command.
real 0m1.585s
user 0m1.319s
sys 0m0.256s
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ time gsutil cp gs://nagesha-gcp-project1-cold-bucket/sample_program.sql
CommandException: Wrong number of arguments for "cp" command.
real 0m1.477s
user 0m1.231s
sys 0m0.238s
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ time gsutil cp gs://nagesha-gcp-project1-multi-region-bucket/sample_program.sql
CommandException: Wrong number of arguments for "cp" command.
real 0m1.488s
user 0m1.236s
sys 0m0.243s
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$
Activate Windows
Go to Settings to activate Windows.
19:09
10-10-2024


SQL – Nagesha-GCP-Project...
gcloud auth login | Google Cl
gcloud CLI Remote Login
console.cloud.google.com/sql/instances?referrer=search&cloudshell=true&project=nagesha-gcp-project-1
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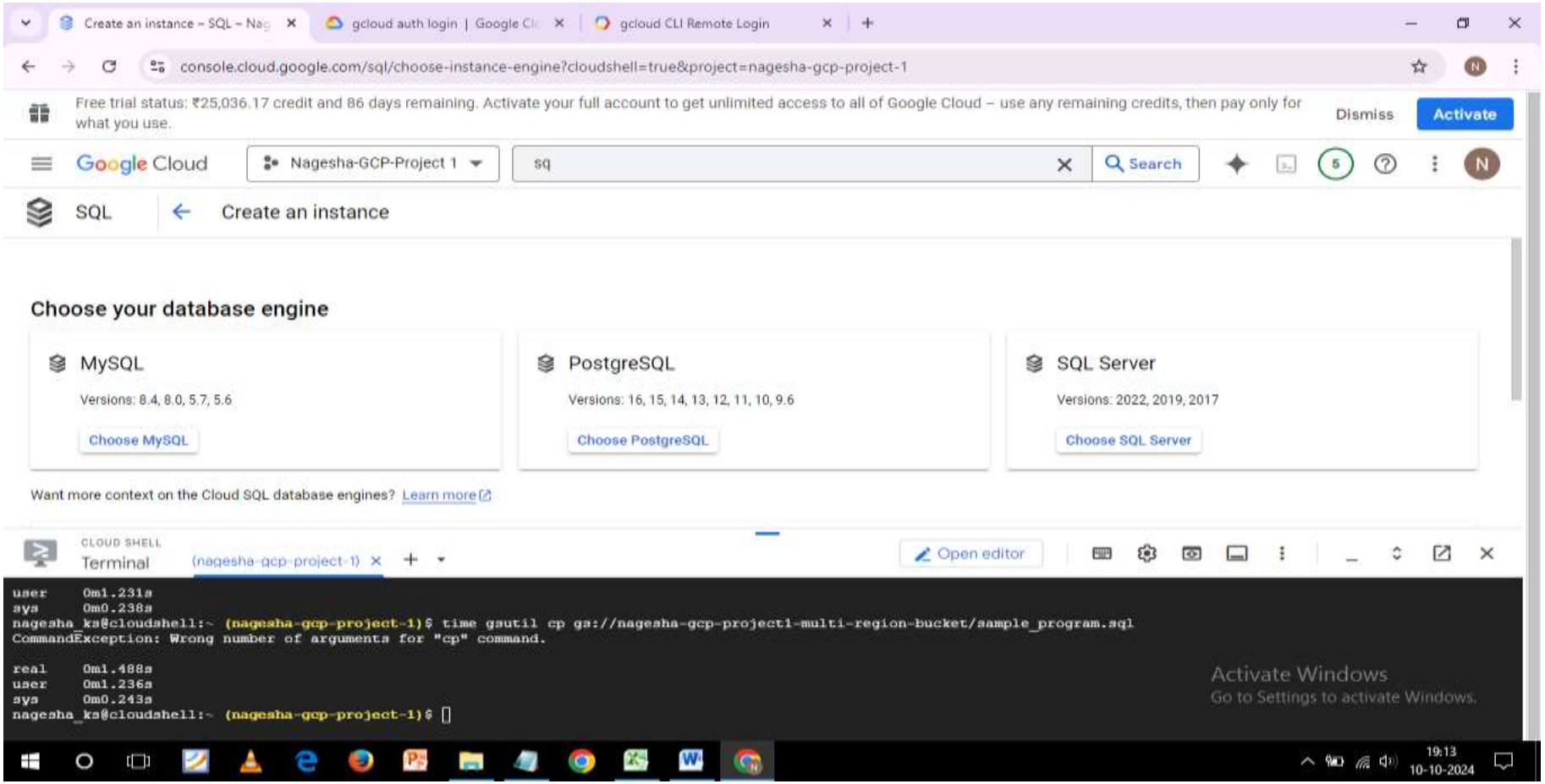
sq
Search
Cloud SQL
Cloud SQL offers a fully-managed database service for MySQL, PostgreSQL and SQL server, reducing your overall cost of operations and freeing up teams to focus on innovation
CREATE INSTANCE WITH YOUR FREE CREDITS
MIGRATE DATABASE
LEARN
Tutorial
Recommended for you
Cloud SQL overview
Help document
Learn about Cloud SQL.
Cloud SQL features by database engine
Help document
Learn about the Cloud SQL features for each database engine.
Cloud SQL for MySQL features
Help document
Learn about Cloud SQL for MySQL features.
CLOUD SHELL
Terminal
(nagesha-gcp-project-1)
Open editor
user 0m1.231s
sys 0m0.238s
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ time gsutil cp gs://nagesha-gcp-project1-multi-region-bucket/sample_program.sql
CommandException: Wrong number of arguments for "cp" command.
real 0m1.488s
user 0m1.236s
sys 0m0.243s
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$
Activate Windows
Go to Settings to activate Windows.
19:12
10-10-2024


Create an instance - SQL - Nag
gcloud auth login | Google Cl
gcloud CLI Remote Login
console.cloud.google.com/sql/choose-instance-engine?cloudshell=true&project=nagesha-gcp-project-1
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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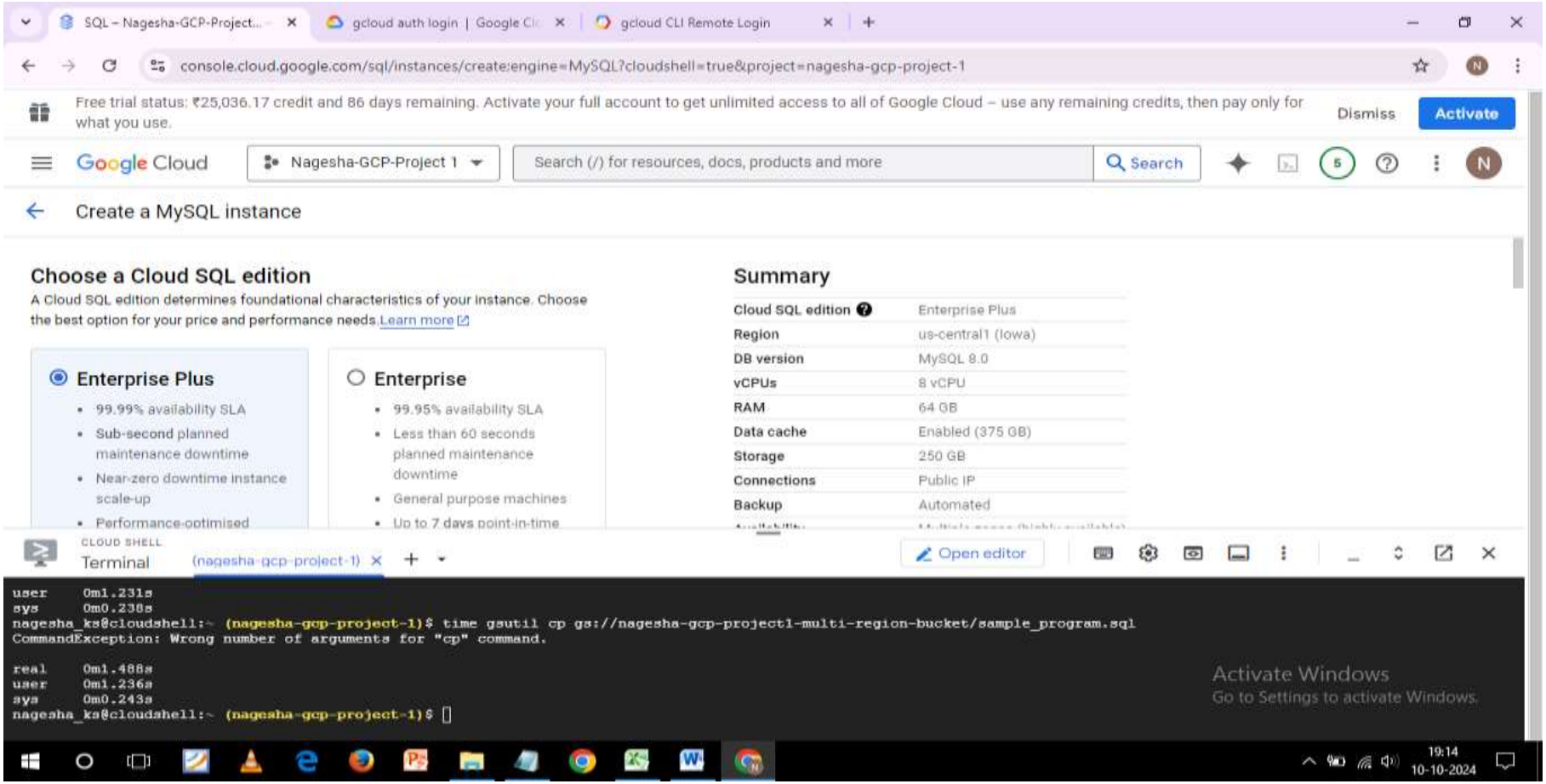
sq
Search
SQL
Create an instance
Choose your database engine
MySQL
Versions: 8.4, 8.0, 5.7, 5.6
Choose MySQL
PostgreSQL
Versions: 16, 15, 14, 13, 12, 11, 10, 9.6
Choose PostgreSQL
SQL Server
Versions: 2022, 2019, 2017
Choose SQL Server
Want more context on the Cloud SQL database engines? Learn more
CLOUD SHELL
Terminal
(nagesha-gcp-project-1)
Open editor
user 0m1.231s
sys 0m0.238s
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ time gsutil cp gs://nagesha-gcp-project1-multi-region-bucket/sample_program.sql
CommandException: Wrong number of arguments for "cp" command.
real 0m1.488s
user 0m1.236s
sys 0m0.243s
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$
Activate Windows
Go to Settings to activate Windows.
19:13
10-10-2024


SQL – Nagesha-GCP-Project...
gcloud auth login | Google Cl
gcloud CLI Remote Login
console.cloud.google.com/sql/instances/create;engine=MySQL?cloudshell=true&project=nagesha-gcp-project-1
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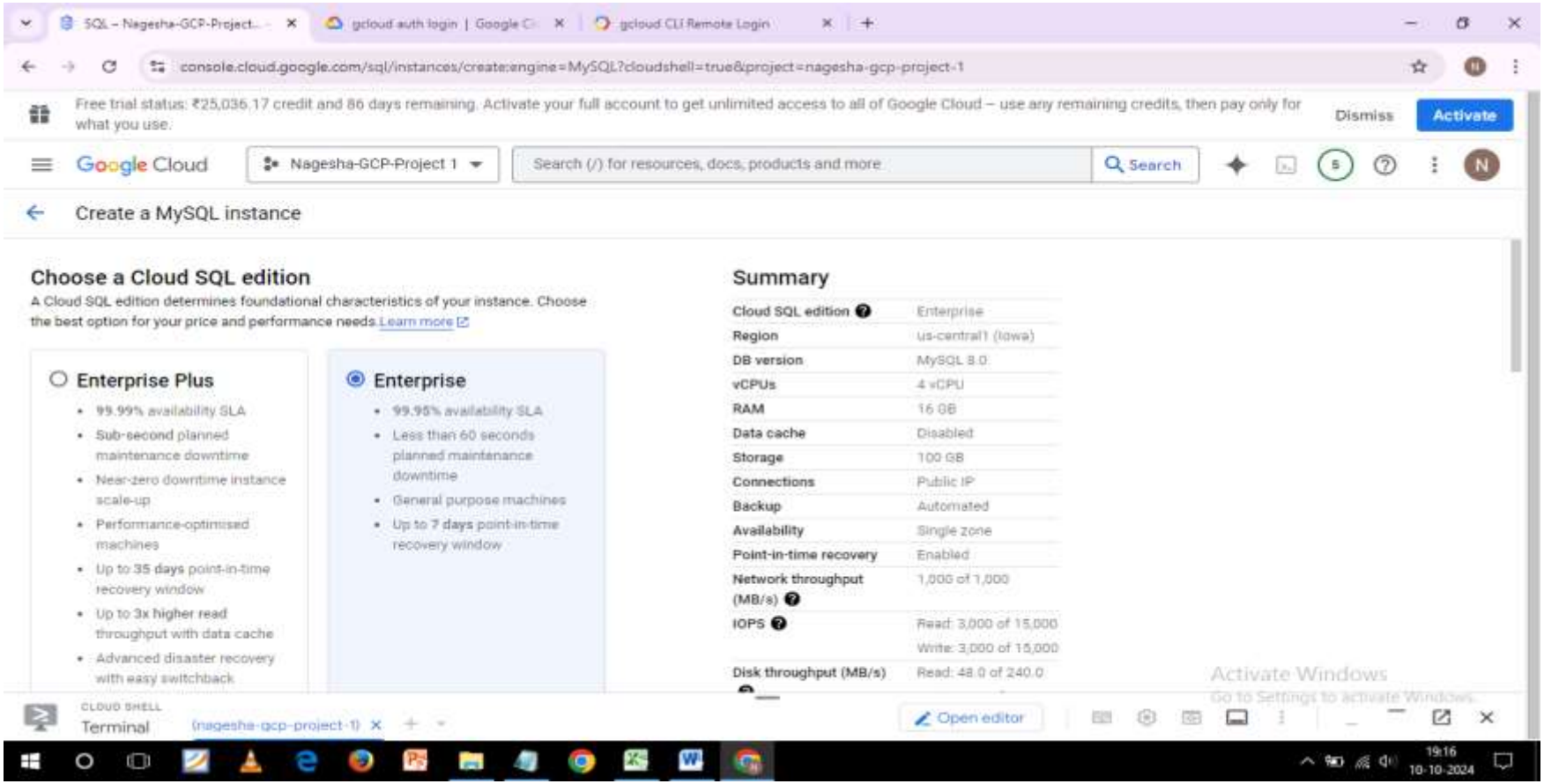
Create a MySQL instance
Choose a Cloud SQL edition
A Cloud SQL edition determines foundational characteristics of your instance. Choose the best option for your price and performance needs. Learn more
Enterprise Plus
99.99% availability SLA
Sub-second planned maintenance downtime
Near-zero downtime instance scale-up
Performance-optimised
Enterprise
99.95% availability SLA
Less than 60 seconds planned maintenance downtime
General purpose machines
Up to 7 days point-in-time
Summary
Cloud SQL edition Enterprise Plus
Region us-central1 (Iowa)
DB version MySQL 8.0
vCPUs 8 vCPU
RAM 64 GB
Data cache Enabled (375 GB)
Storage 250 GB
Connections Public IP
Backup Automated
CLOUD SHELL
Terminal
(nagesha-gcp-project-1)
Open editor
user 0m1.231s
sys 0m0.238s
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$ time gsutil cp gs://nagesha-gcp-project1-multi-region-bucket/sample_program.sql
CommandException: Wrong number of arguments for "cp" command.
real 0m1.488s
user 0m1.236s
sys 0m0.243s
nagesha_ks@cloudshell:~ (nagesha-gcp-project-1)$
Activate Windows
Go to Settings to activate Windows.
19:14
10-10-2024


SQL – Nagesha-GCP-Project...
gcloud auth login | Google C...
gcloud CLI Remote Login
console.cloud.google.com/sql/instances/create;engine=MySQL?cloudshell=true&project=nagesha-gcp-project-1
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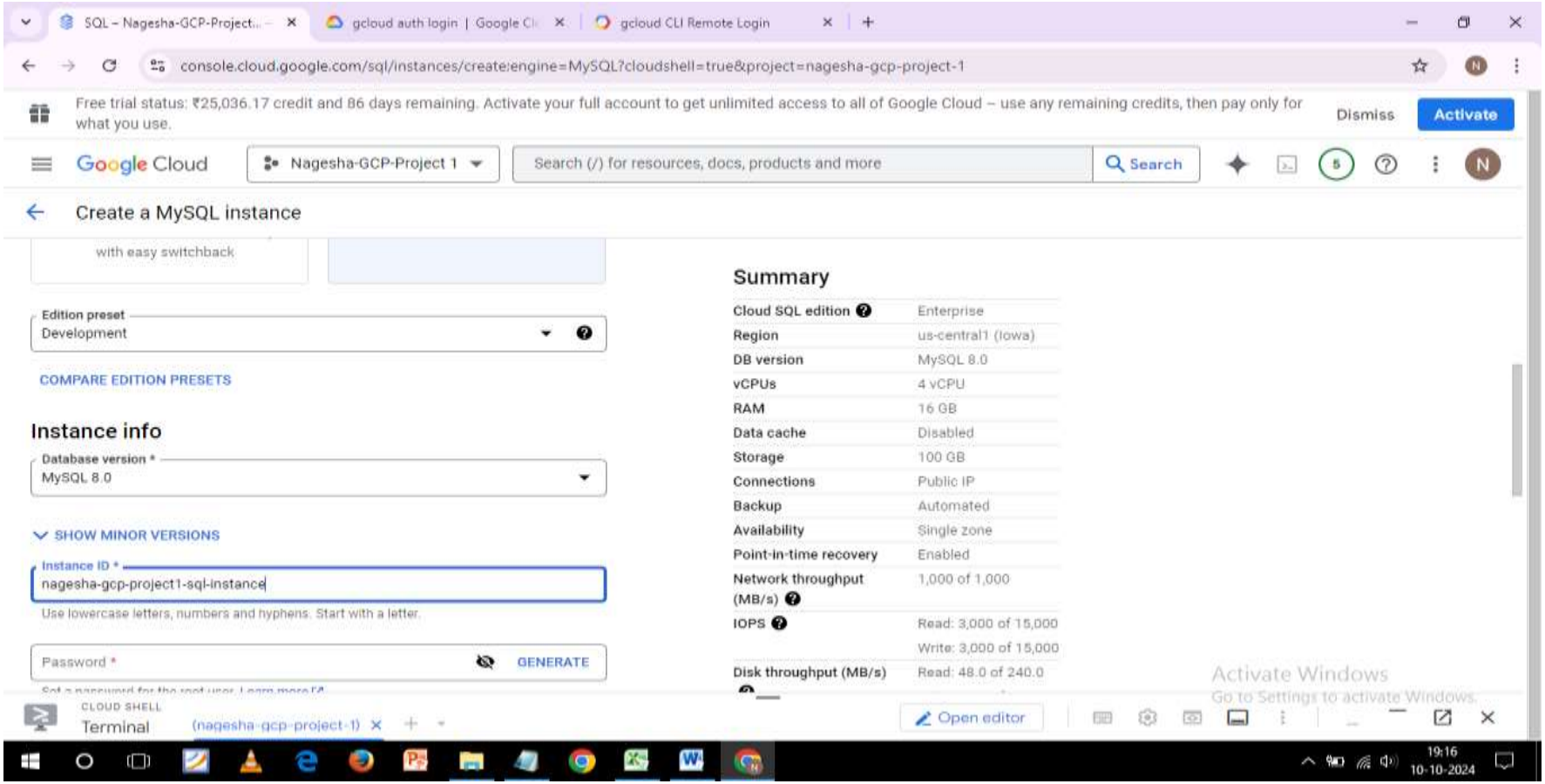
Create a MySQL instance
Choose a Cloud SQL edition
A Cloud SQL edition determines foundational characteristics of your instance. Choose the best option for your price and performance needs. Learn more
Enterprise Plus
99.99% availability SLA
Sub-second planned maintenance downtime
Near-zero downtime instance scale-up
Performance-optimised machines
Up to 35 days point-in-time recovery window
Up to 3x higher read throughput with data cache
Advanced disaster recovery with easy switchback
Enterprise
99.95% availability SLA
Less than 60 seconds planned maintenance downtime
General purpose machines
Up to 7 days point-in-time recovery window
Summary
Cloud SQL edition Enterprise
Region us-central1 (Iowa)
DB version MySQL 8.0
vCPUs 4 vCPU
RAM 16 GB
Data cache Disabled
Storage 100 GB
Connections Public IP
Backup Automated
Availability Single zone
Point-in-time recovery Enabled
Network throughput (MB/s) 1,000 of 1,000
IOPS Read: 3,000 of 15,000
Write: 3,000 of 15,000
Disk throughput (MB/s) Read: 48.0 of 240.0
Activate Windows
Go to Settings to activate Windows.
CLOUD SHELL
Terminal
(nagesha-gcp-project-1)
Open editor
19:16
10-10-2024


SQL – Nagesha-GCP-Project...
gcloud auth login | Google Cl
gcloud CLI Remote Login
console.cloud.google.com/sql/instances/create;engine=MySQL?cloudshell=true&project=nagesha-gcp-project-1
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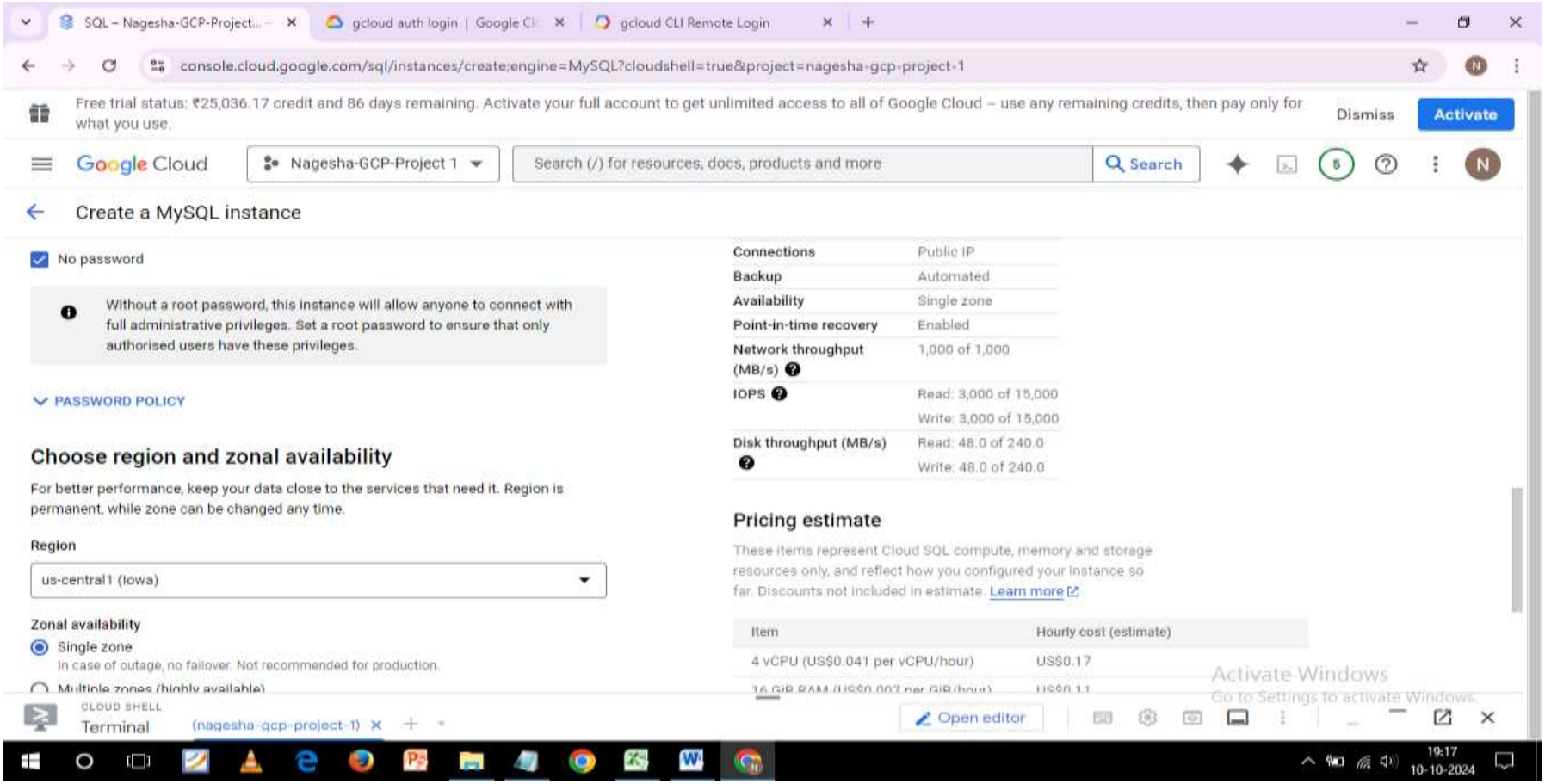
Search
Create a MySQL instance
with easy switchback
Edition preset
Development
COMPARE EDITION PRESETS
Instance info
Database version *
MySQL 8.0
SHOW MINOR VERSIONS
Instance ID *
nagesha-gcp-project1-sql-instance
Use lowercase letters, numbers and hyphens. Start with a letter.
Password *
GENERATE
Summary
Cloud SQL edition
Enterprise
Region
us-central1 (Iowa)
DB version
MySQL 8.0
vCPUs
4 vCPU
RAM
16 GB
Data cache
Disabled
Storage
100 GB
Connections
Public IP
Backup
Automated
Availability
Single zone
Point-in-time recovery
Enabled
Network throughput (MB/s)
1,000 of 1,000
IOPS
Read: 3,000 of 15,000
Write: 3,000 of 15,000
Disk throughput (MB/s)
Read: 48.0 of 240.0
Activate Windows
Go to Settings to activate Windows.
CLOUD SHELL
Terminal
(nagesha-gcp-project-1)
Open editor
19:16
10-10-2024


SQL – Nagesha-GCP-Project...
gcloud auth login | Google Cl
gcloud CLI Remote Login
console.cloud.google.com/sql/instances/create;engine=MySQL?cloudshell=true&project=nagesha-gcp-project-1
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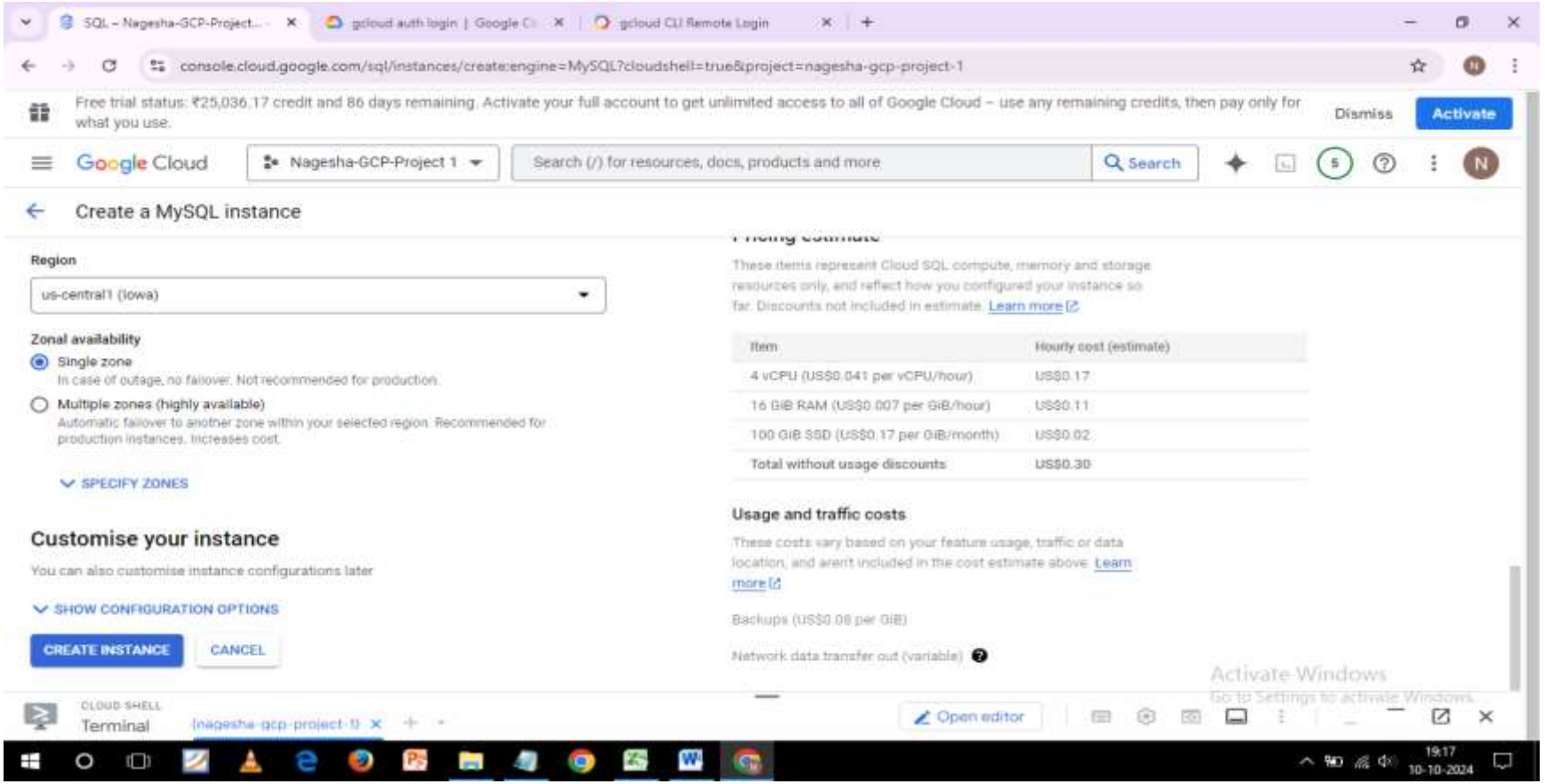
Create a MySQL instance
No password
Without a root password, this instance will allow anyone to connect with full administrative privileges. Set a root password to ensure that only authorised users have these privileges.
PASSWORD POLICY
Choose region and zonal availability
For better performance, keep your data close to the services that need it. Region is permanent, while zone can be changed any time.
Region
us-central1 (Iowa)
Zonal availability
Single zone
In case of outage, no failover. Not recommended for production.
Multiple zones (highly available)
Connections
Public IP
Backup
Automated
Availability
Single zone
Point-in-time recovery
Enabled
Network throughput (MB/s)
1,000 of 1,000
IOPS
Read: 3,000 of 15,000
Write: 3,000 of 15,000
Disk throughput (MB/s)
Read: 48.0 of 240.0
Write: 48.0 of 240.0
Pricing estimate
These items represent Cloud SQL compute, memory and storage resources only, and reflect how you configured your instance so far. Discounts not included in estimate. Learn more
Item
Hourly cost (estimate)
4 vCPU (US$0.041 per vCPU/hour)
US$0.17
Activate Windows
Go to Settings to activate Windows.
CLOUD SHELL
Terminal
(nagesha-gcp-project-1)
Open editor
19:17
10-10-2024


SQL – Nagesha-GCP-Project...
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gcloud CLI Remote Login
console.cloud.google.com/sql/instances/create;engine=MySQL?cloudshell=true&project=nagesha-gcp-project-1
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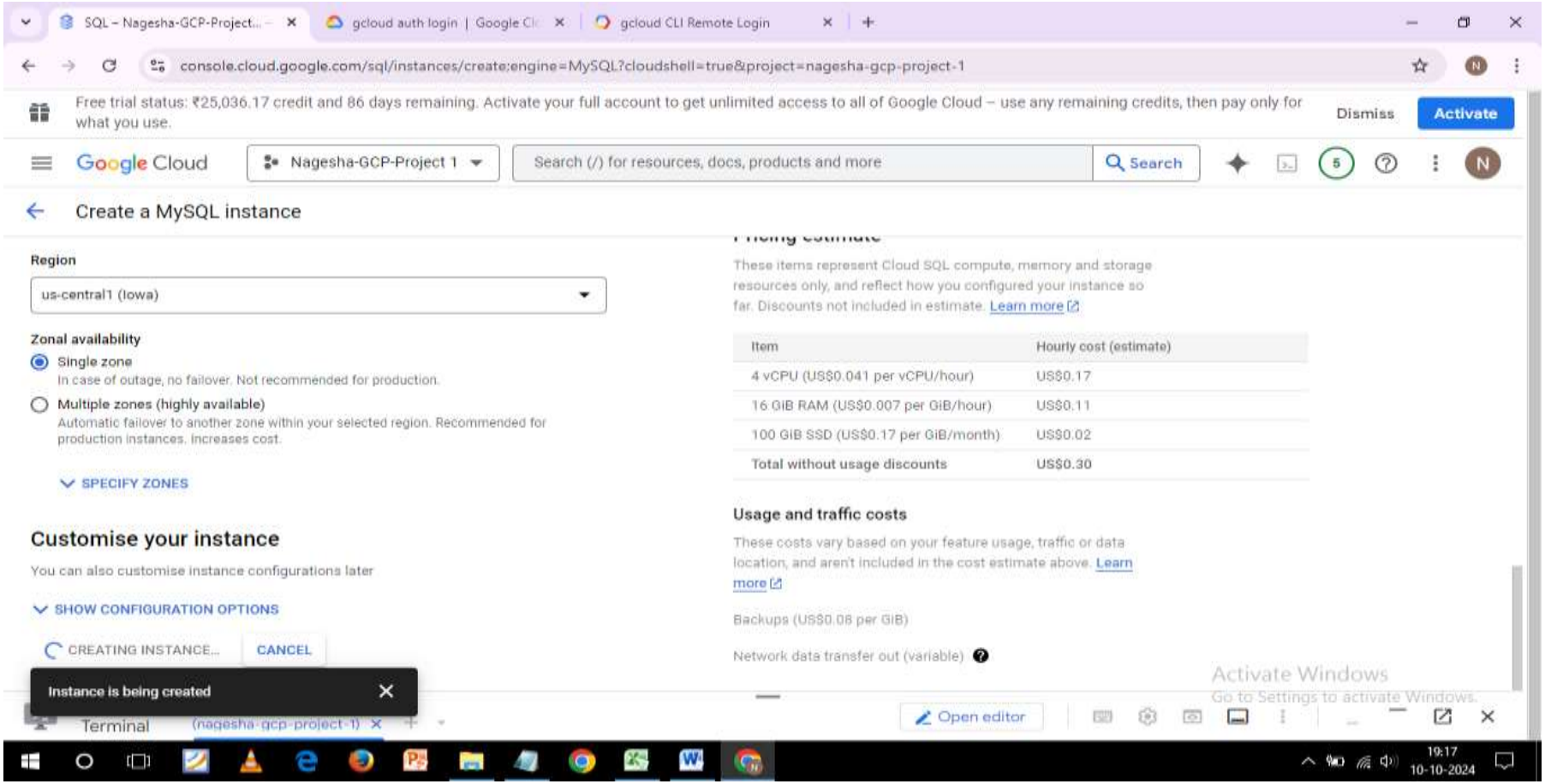
Search
Create a MySQL instance
Region
us-central1 (Iowa)
Zonal availability
Single zone
In case of outage, no failover. Not recommended for production.
Multiple zones (highly available)
Automatic failover to another zone within your selected region. Recommended for production instances. Increases cost.
SPECIFY ZONES
Customise your instance
You can also customise instance configurations later
SHOW CONFIGURATION OPTIONS
CREATE INSTANCE
CANCEL
These items represent Cloud SQL compute, memory and storage resources only, and reflect how you configured your instance so far. Discounts not included in estimate. Learn more
Item
Hourly cost (estimate)
4 vCPU (US$0.041 per vCPU/hour)
US$0.17
16 GiB RAM (US$0.007 per GiB/hour)
US$0.11
100 GiB SSD (US$0.17 per GiB/month)
US$0.02
Total without usage discounts
US$0.30
Usage and traffic costs
These costs vary based on your feature usage, traffic or data location, and aren't included in the cost estimate above. Learn more
Backups (US$0.08 per GiB)
Network data transfer out (variable)
Activate Windows
Go to Settings to activate Windows.
CLOUD SHELL
Terminal
(nagesha-gcp-project-1)
Open editor
19:17
10-10-2024


SQL – Nagesha-GCP-Project...
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gcloud CLI Remote Login
console.cloud.google.com/sql/instances/create;engine=MySQL?cloudshell=true&project=nagesha-gcp-project-1
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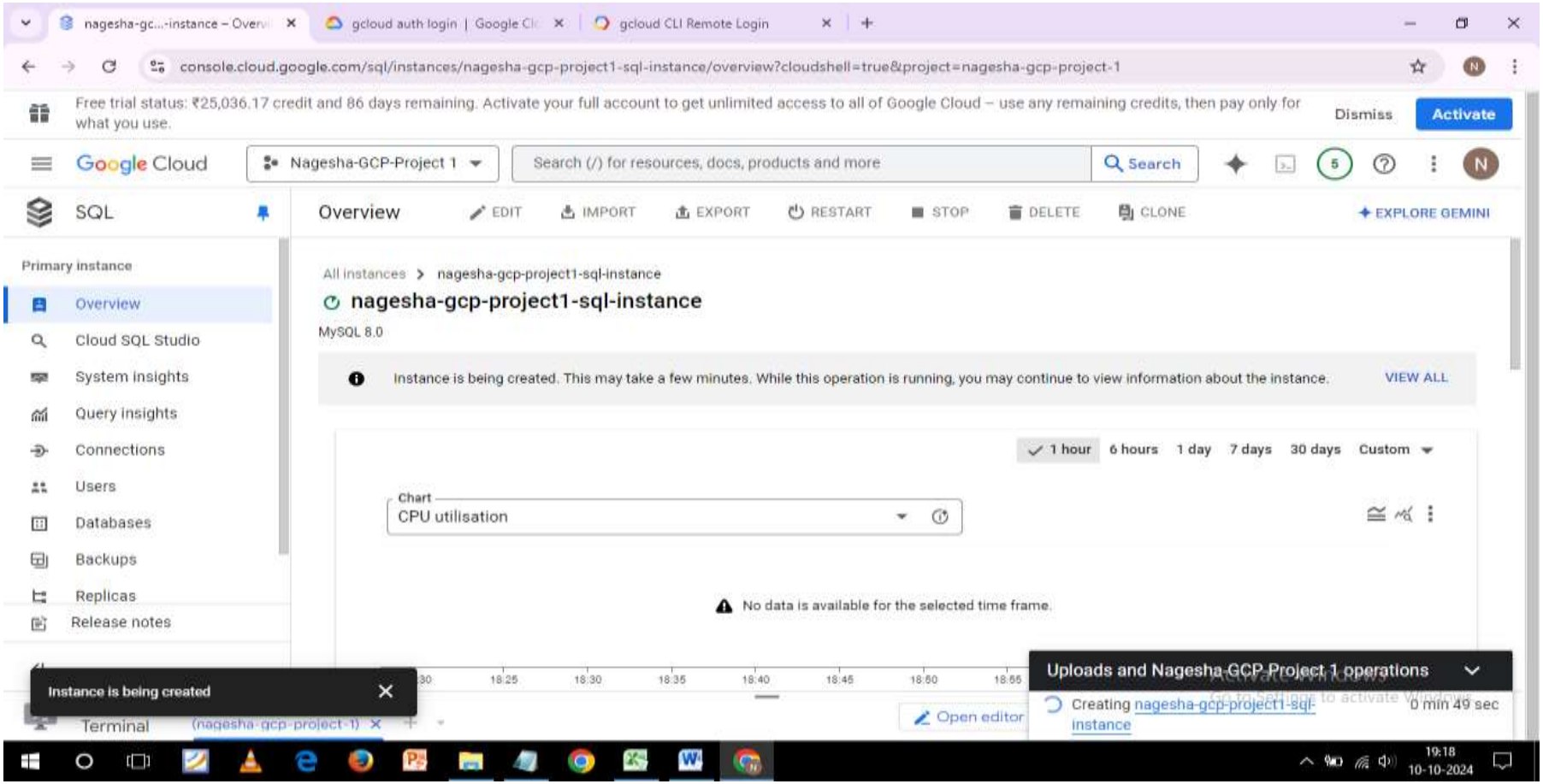
Search
Create a MySQL instance
Region
us-central1 (Iowa)
Zonal availability
Single zone
In case of outage, no failover. Not recommended for production.
Multiple zones (highly available)
Automatic failover to another zone within your selected region. Recommended for production instances. Increases cost.
SPECIFY ZONES
Customise your instance
You can also customise instance configurations later
SHOW CONFIGURATION OPTIONS
CREATING INSTANCE...
CANCEL
Instance is being created
These items represent Cloud SQL compute, memory and storage resources only, and reflect how you configured your instance so far. Discounts not included in estimate. Learn more
Item
Hourly cost (estimate)
4 vCPU (US$0.041 per vCPU/hour)
US$0.17
16 GiB RAM (US$0.007 per GiB/hour)
US$0.11
100 GiB SSD (US$0.17 per GiB/month)
US$0.02
Total without usage discounts
US$0.30
Usage and traffic costs
These costs vary based on your feature usage, traffic or data location, and aren't included in the cost estimate above. Learn more
Backups (US$0.08 per GiB)
Network data transfer out (variable)
Activate Windows
Go to Settings to activate Windows.
Terminal
(nagesha-gcp-project-1)
Open editor
19:17
10-10-2024


nagesha-gc...-instance – Overv
gcloud auth login | Google Cl
gcloud CLI Remote Login
console.cloud.google.com/sql/instances/nagesha-gcp-project1-sql-instance/overview?cloudshell=true&project=nagesha-gcp-project-1
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SQL
Overview
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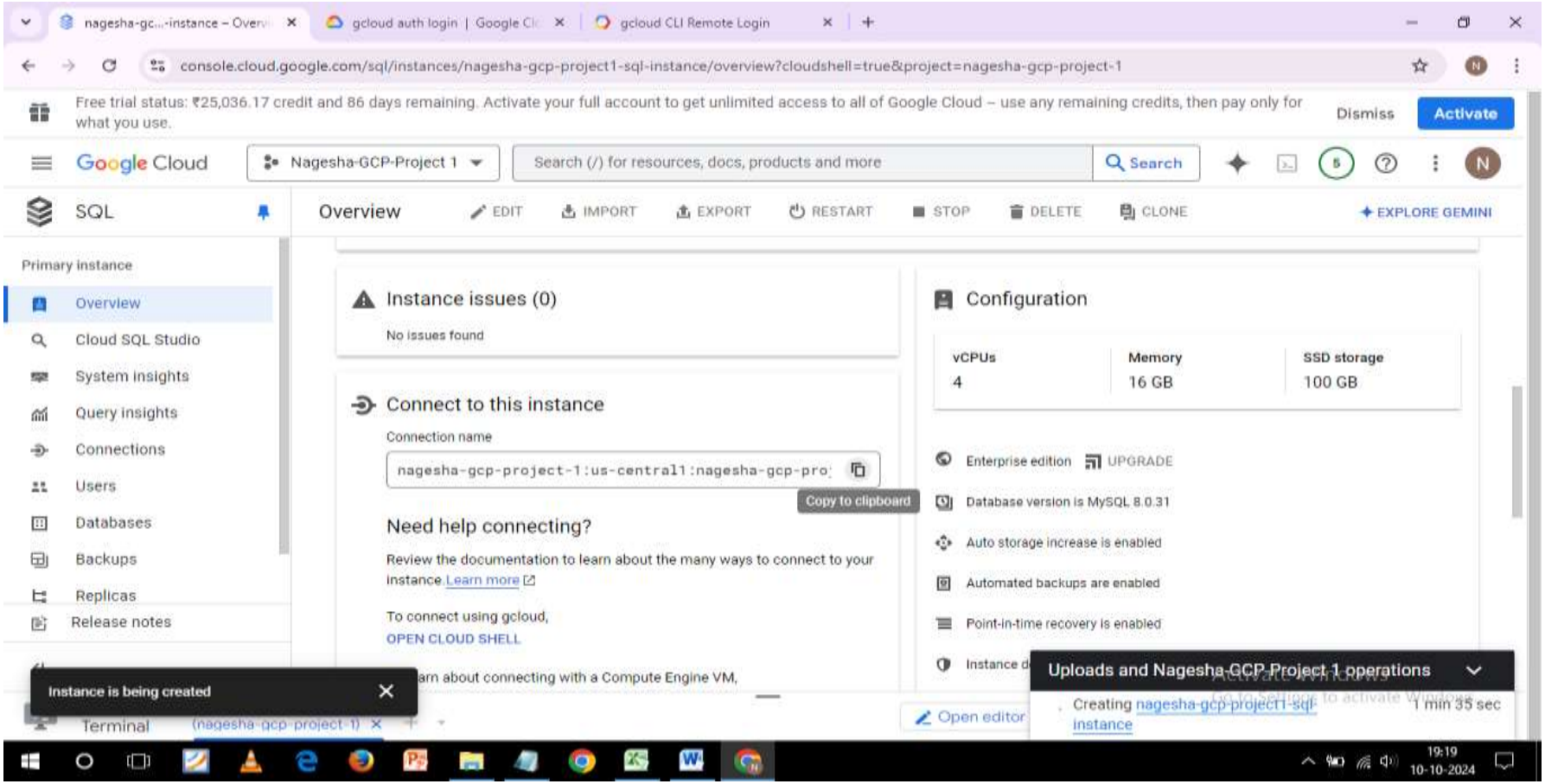
RESTART
STOP
DELETE
CLONE
EXPLORE GEMINI
Primary instance
Overview
Cloud SQL Studio
System insights
Query insights
Connections
Users
Databases
Backups
Replicas
Release notes
All instances > nagesha-gcp-project1-sql-instance
nagesha-gcp-project1-sql-instance
MySQL 8.0
Instance is being created. This may take a few minutes. While this operation is running, you may continue to view information about the instance.
VIEW ALL
1 hour
6 hours
1 day
7 days
30 days
Custom
Chart
CPU utilisation
No data is available for the selected time frame.
Instance is being created
Uploads and Nagesha-GCP-Project 1 operations
Creating nagesha-gcp-project1-sql-instance
0 min 49 sec
Terminal
(nagesha-gcp-project-1)
Open editor
19:18
10-10-2024


nagesha-gc...-instance – Overv
gcloud auth login | Google Cl
gcloud CLI Remote Login
console.cloud.google.com/sql/instances/nagesha-gcp-project1-sql-instance/overview?cloudshell=true&project=nagesha-gcp-project-1
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Nagesha-GCP-Project 1
Search (/) for resources, docs, products and more
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SQL
Overview
EDIT
IMPORT
EXPORT
RESTART
STOP
DELETE
CLONE
EXPLORE GEMINI
Primary instance
Overview
Cloud SQL Studio
System insights
Query insights
Connections
Users
Databases
Backups
Replicas
Release notes
Instance issues (0)
No issues found
Connect to this instance
Connection name
nagesha-gcp-project-1:us-central1:nagesha-gcp-pro
Copy to clipboard
Need help connecting?
Review the documentation to learn about the many ways to connect to your instance. Learn more
To connect using gcloud,
OPEN CLOUD SHELL
Configuration
vCPUs
4
Memory
16 GB
SSD storage
100 GB
Enterprise edition
UPGRADE
Database version is MySQL 8.0.31
Auto storage increase is enabled
Automated backups are enabled
Point-in-time recovery is enabled
Instance is being created
Uploads and Nagesha-GCP-Project 1 operations
Creating nagesha-gcp-project1-sql instance
1 min 35 sec
Terminal
(nagesha-gcp-project-1)
Open editor
19:19
10-10-2024

Commands

Created a sample SQL-file on my local drive; the file name is: sample_program.sql

```
-- Step 2.1: Create a database
CREATE DATABASE IF NOT EXISTS sampledb;
-- Step 2.2: Create a table
CREATE TABLE IF NOT EXISTS users (
    user_id INT PRIMARY KEY AUTO_INCREMENT, -- Auto-incremented unique ID
    first_name VARCHAR(50),             -- First name field
    last_name VARCHAR(50),              -- Last name field
    email VARCHAR(100) UNIQUE,          -- Email field (must be unique)
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP -- Timestamp for when the record is created
);
-- Step 2.3: Insert sample data into the table
INSERT INTO users (first_name, last_name, email)
VALUES
    ('Alice', 'Johnson', 'alice.johnson@example.com'),
    ('Bob', 'Smith', 'bob.smith@example.com'),
    ('Carol', 'Williams', 'carol.williams@example.com');
-- Step 2.4: Query the data
SELECT * FROM users;
-- Step 2.5: Retrieve users by email (a more specific query)
SELECT first_name, last_name FROM users WHERE email = 'alice.johnson@example.com';
-- Step 2.6: Update a record (optional)
UPDATE users SET email = 'alice.newemail@example.com' WHERE user_id = 1;
-- Step 2.7: Delete a record (optional)
DELETE FROM users WHERE user_id = 2;
```

Created GCS Bucket for Hot, cold and Multi-region Storage

gsutil mb -c standard -l us-central1 gs://nagesha-gcp-project1-hot-bucket
gsutil mb -c coldline -l us-west1 gs://nagesha-gcp-project1-cold-bucket
gsutil mb -c standard -l us gs://nagesha-gcp-project1-multi-region-bucket

Uploaded the SQL-File to Each Bucket: Hot, cold and Multi-region Storage

gsutil cp sample_program.sql gs://nagesha-gcp-project1-hot-bucket
gsutil cp sample_program.sql gs://nagesha-gcp-project1-cold-bucket
gsutil cp sample_program.sql gs://nagesha-gcp-project1-multi-region-bucket

Compared Download Latency and recorded the time taken for each download

time gsutil cp gs://nagesha-gcp-project1-hot-bucket/sample_program.sql
time gsutil cp gs://nagesha-gcp-project1-cold-bucket/sample_program.sql
time gsutil cp gs://nagesha-gcp-project1-multi-region-bucket/sample_program.sql

Imported Database to Cloud SQL Using the Bucket with Lowest Latency

Go to SQL in GCP Console > Created a new MySQL instance nagesha-gcp-project1-sql-instance
Chose the region as the bucket with the lowest latency

Imported the SQL File from GCS to Cloud SQL

Cloud SQL instance dashboard>Import>
gs://nagesha-gcp-project1-hot-bucket/sample_program.sql
Imported the SQL file into Cloud SQL instance.