

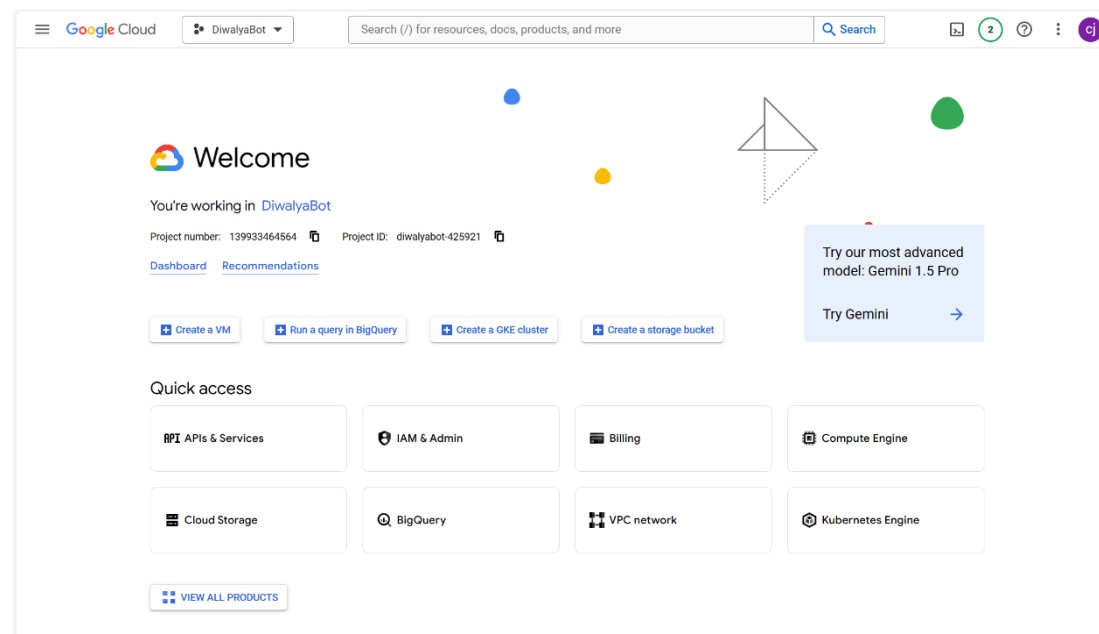
CREATE A MYSQL INSTANCE BY USING CLOUD SQL

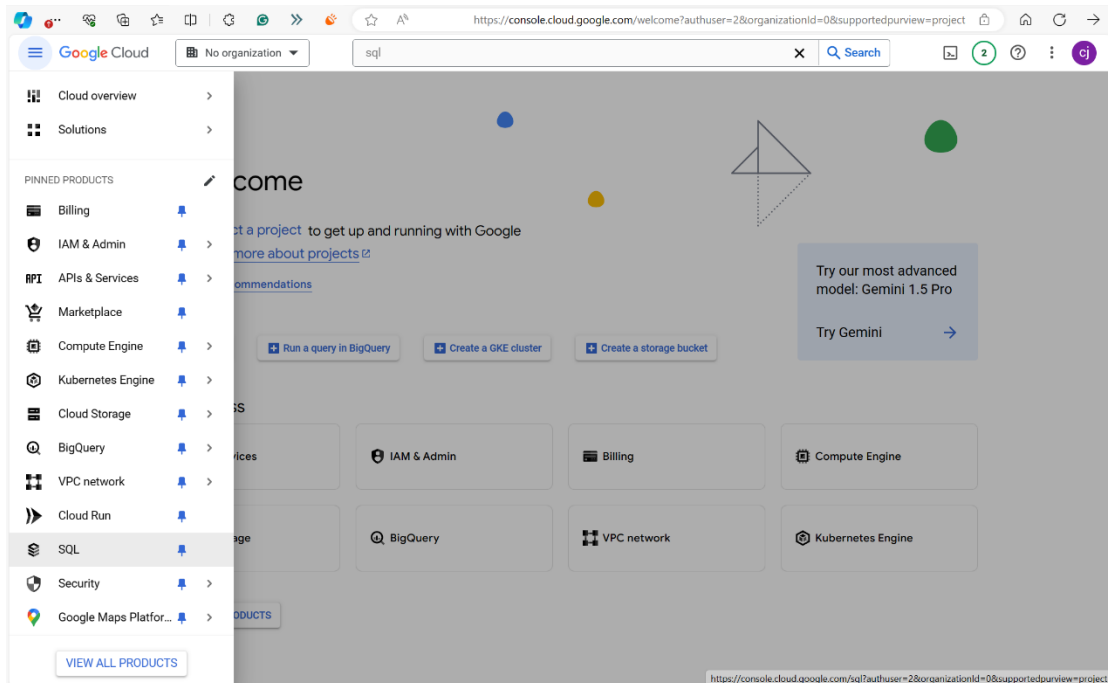
BY NOURA ALHENAKI

Guidelines:

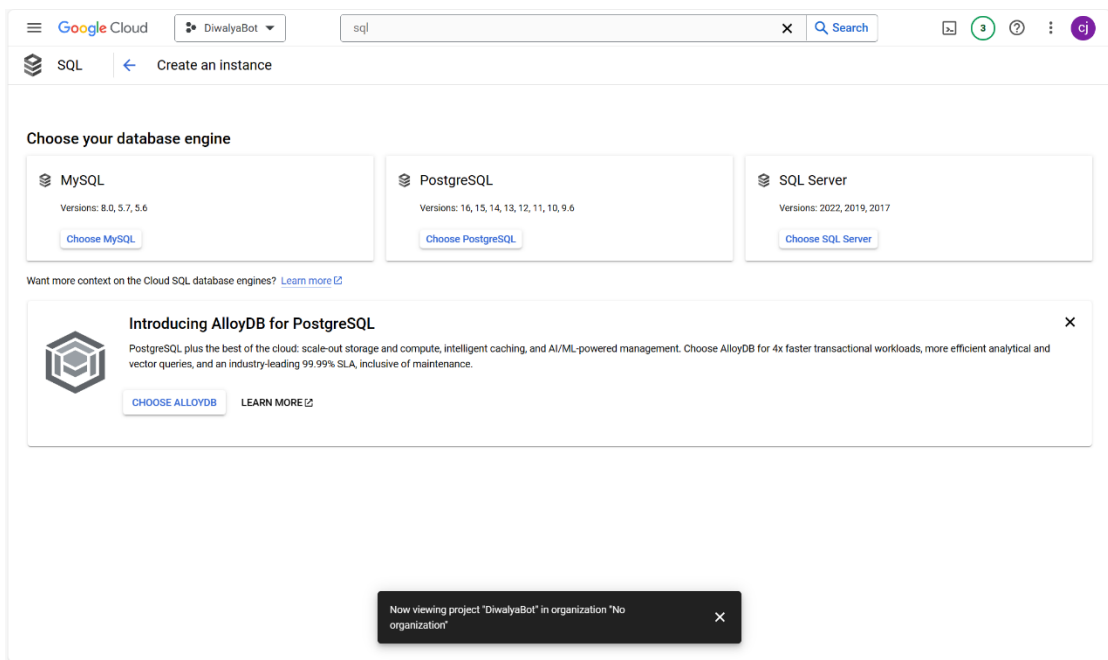
- First make your own GCP account. project Cloud
- second after you make your account enable compute engine
- third create your first MySQL instance

Open GCP:





Click on **MySQL:**



Name your instance and have a pssword:

SQL

PRIMARY INSTANCE

Overview

Cloud SQL Studio

System insights

Query insights

Connections

Users

Databases

Backups

Replicas

Operations

Release Notes

Create a MySQL instance

Instance info

Instance ID *
Use lowercase letters, numbers, and hyphens. Start with a letter.

Password *
Set a password for the root user. [Learn more](#)

☐ No password

PASSWORD POLICY

Database version *
MySQL 8.0

SHOW MINOR VERSIONS

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 optimized machines

☐ Enterprise

- 99.95% availability SLA
- Less than 60 seconds planned maintenance downtime
- General purpose machines
- Up to 7 days point-in-time recovery window

Pricing estimate

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
Availability	Multiple zones (Highly available)
Point-in-time recovery	Enabled
Network throughput (MB/s)	2,000 of 2,000
Disk throughput (MB/s)	Read: 120.0 of 800.0 Write: 120.0 of 800.0
IOPS	Read: 7,500 of 15,000 Write: 7,500 of 15,000

This is my instances:

SQL

Instances

CREATE INSTANCE

MIGRATE DATABASE

EXPLORE GEMINI

SHOW INFO PANEL

LEARN

Filter

Enter property name or value

Instance ID	Issues	Cloud SQL edition	Type	Public IP address	Private IP address	Instance connection name	Actions
projectsql		Enterprise Plus	MySQL 8.0	34.45.61.183		primeval-shadow-42...	
projectsql1		Enterprise Plus	MySQL 8.0	34.67.144.215		primeval-shadow-42...	

Simplified Cloud Networking for Cloud SQL

Create a Cloud SQL instance with Shared VPC networking

Help document

Use Terraform to create a Cloud SQL instance with Shared VPC networking.

Create a Cloud SQL instance that uses Shared VPC networking and HA VPN

Help document

Use Terraform to create a Cloud SQL instance accessed by using HA VPN with Shared VPC networking.

Create a Cloud SQL instance with Private Service Connect

Help document

Use Terraform to create a Cloud SQL instance with Private Service Connect.

Create a Cloud SQL instance that uses Private Service Connect and HA VPN

Help document

Use Terraform to create a Cloud SQL instance accessed by using HA VPN with Private Service Connect.

Create a Cloud SQL instance that uses Shared VPC networking and Cloud Interconnect

Help document

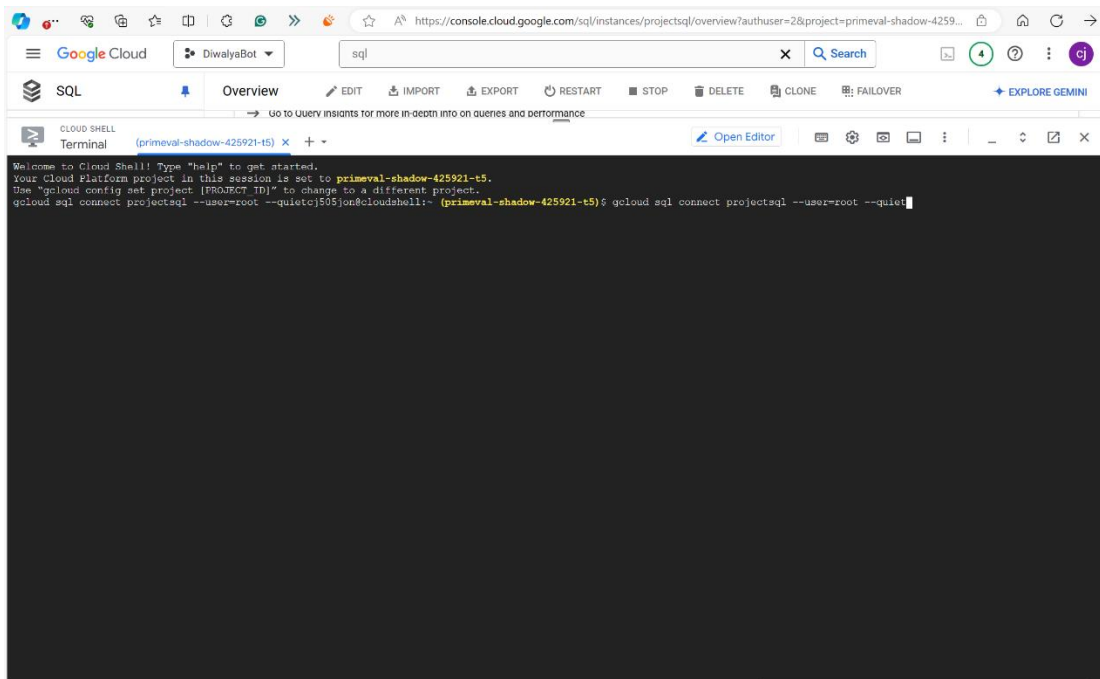
More details about your instance:

The screenshot shows the Google Cloud SQL instance overview page. The left sidebar contains a navigation menu with options: Overview (selected), Cloud SQL Studio, System insights, Query insights, Connections, Users, Databases, Backups, Replicas, and Operations. The main content area is titled 'Overview' and includes a timeline at the top. Below the timeline, there are three main sections: 'Connect to this instance' (showing public IP address 34.45.61.183 and connection name primeval-shadow-425921-t5:us-central1:projectsql), 'Need help connecting?' (with links to documentation and tutorials), and 'Service account' (showing p604751874762-yh36ae@gcp-sa-cloud-sql.iam.gserviceaccount.com). On the right, the 'Configuration' section lists instance details: vCPUs (8), Memory (64 GB), SSD storage (250 GB), Enterprise Plus edition, Data Cache enabled (375 GB), Database version (MySQL 8.0.31), Auto storage increase enabled, Automated backups enabled, Point-in-time recovery enabled, Instance deletion protection enabled, Located in us-central1-f, Multi-zone (highly available), No DR replica designated, No database flags set, and No labels set.

You can open the Cloud Shell

This screenshot shows the same Google Cloud SQL instance overview page as above, but with the Cloud Shell terminal open at the bottom. The terminal window has a title bar that says 'CLOUD SHELL Terminal' and a tab labeled 'Connecting...'. Below the terminal, there are two informational boxes. The left box is titled 'Develop cloud-native applications' and describes how Cloud Shell can be used to create, develop, debug, and deploy applications. The right box is titled 'Provisioning your Cloud Shell machine' and describes connecting to the Cloud Shell instance.

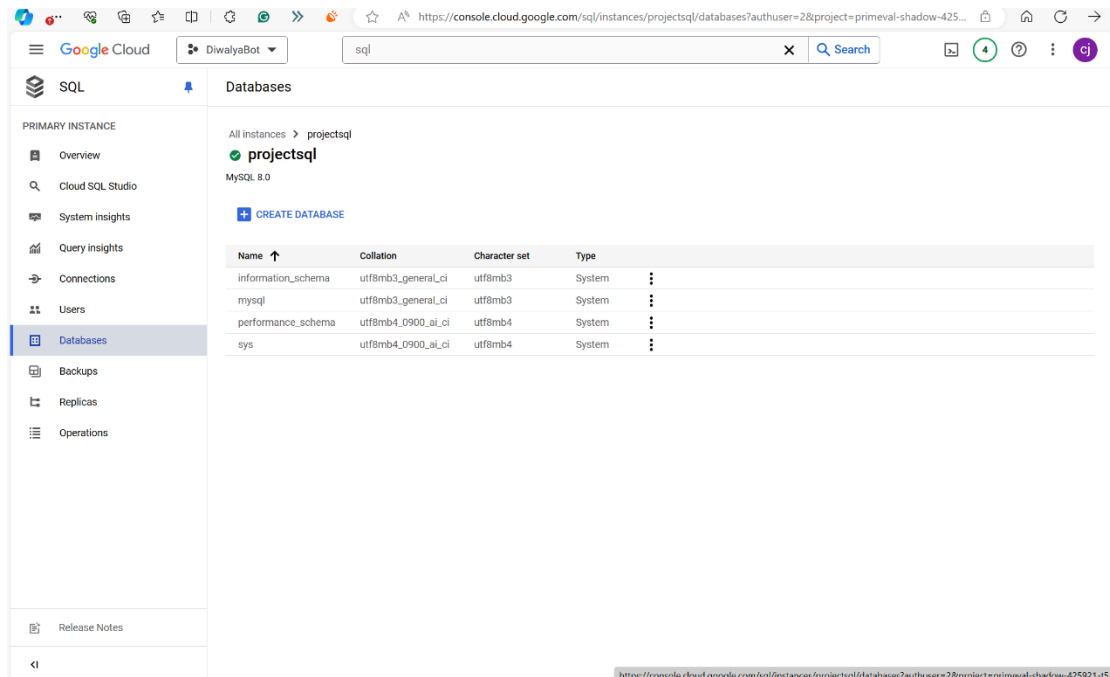
Cmd: `gcloud sql connect projectsql --user=root --quiet`



The screenshot shows the Google Cloud SQL console interface. At the top, there's a navigation bar with the Google Cloud logo and a search bar. Below it, the 'SQL' section is active, showing an 'Overview' tab. A terminal window is open at the bottom, displaying the following text:

```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to primeval-shadow-425921-t5.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
gcloud sql connect projectsql --user=root --quiet[j55]on@cloudshell:~ (primeval-shadow-425921-t5) $ gcloud sql connect projectsql --user=root --quiet
```

If you want to create DataBase:



The screenshot shows the Google Cloud SQL console interface, specifically the 'Databases' tab for the 'projectsql' instance. The left sidebar shows the navigation menu with 'Databases' selected. The main content area displays the instance details and a table of databases.

Instance: **projectsql** (MySQL 8.0)

[CREATE DATABASE](#)

Name ↑	Collation	Character set	Type
information_schema	utf8mb3_general_ci	utf8mb3	System
mysql	utf8mb3_general_ci	utf8mb3	System
performance_schema	utf8mb4_0900_ai_ci	utf8mb4	System
sys	utf8mb4_0900_ai_ci	utf8mb4	System

Google Cloud DiwalyaBot sql

SQL Databases

PRIMARY INSTANCE

- Overview
- Cloud SQL Studio
- System insights
- Query insights
- Connections
- Users
- Databases
- Backups
- Replicas
- Operations

Release Notes

All instances > projectsql

projectsql

MySQL 8.0

+ CREATE DATABASE

Name ↑	Collation	Character set	Type
information_schema	utf8mb3_general_ci	utf8mb3	System
mysql	utf8mb3_general_ci	utf8mb3	System
performance_schema	utf8mb4_0900_ai_ci	utf8mb4	System
student	utf8mb3_general_ci	utf8mb3	User
sys	utf8mb4_0900_ai_ci	utf8mb4	System

Create a database

Database Name * student

Must follow the MySQL identifier rules. [Learn more](#)

Character set * utf8

Can be changed later by executing an ALTER DATABASE query.

Collation Default collation

Can be changed later by executing an ALTER DATABASE query.

CREATE CANCEL

Google Cloud DiwalyaBot sql

SQL Databases

PRIMARY INSTANCE

- Overview
- Cloud SQL Studio
- System insights
- Query insights
- Connections
- Users
- Databases
- Backups
- Replicas
- Operations

Release Notes

All instances > projectsql

projectsql

MySQL 8.0

+ CREATE DATABASE

Name ↑	Collation	Character set	Type
information_schema	utf8mb3_general_ci	utf8mb3	System
mysql	utf8mb3_general_ci	utf8mb3	System
performance_schema	utf8mb4_0900_ai_ci	utf8mb4	System
student	utf8mb3_general_ci	utf8mb3	User
sys	utf8mb4_0900_ai_ci	utf8mb4	System

To check whos are authorize users:

The screenshot shows the Google Cloud Console interface. On the left, a sidebar lists navigation options: Overview, Cloud SQL Studio, System insights, Query insights, Connections, Users (selected), Databases, Backups, Replicas, and Operations. The main content area is titled 'Users' and shows details for the 'projectsql' MySQL 8.0 instance. It includes a table with columns: User name, Host name, Authentication, and Password status. The table contains one entry: 'root' with host name '% (any host)', authentication 'Built-in', and password status 'N/A'. There is an 'ADD USER ACCOUNT' button above the table.

User name	Host name	Authentication	Password status
root	% (any host)	Built-in	N/A

And her if you want to add any user :

The screenshot shows the 'Add a user account to instance projectsql' dialog box. It has two main sections: 'Choose how to authenticate' and 'PASSWORD POLICY'. Under 'Choose how to authenticate', there are two options: 'Built-in authentication' (selected) and 'Cloud IAM'. The 'Built-in authentication' section includes a 'User name' input field and a 'Password (Optional)' input field with a 'GENERATE' button. The 'PASSWORD POLICY' section has a 'Host name' dropdown menu with two options: 'Allow any host (%)' (selected) and 'Restrict host by IP address or address range'. At the bottom, there are 'ADD' and 'CANCEL' buttons.