

Google Cloud console showing the 'Connections' page for a Cloud SQL instance named 'intern-sql-instance'.

The 'Instance IP assignment' section shows 'Public IP' selected.

The 'Authorized networks' section shows 'Local Access (202.21.42.4)' added, highlighted with a red box.

The 'Google Cloud services authorization' section shows 'Enable private path' unchecked.

The 'App Engine authorization' section is visible.

On the right, a summary box shows 'Uploads and sql-instance operations' with a log of recent actions.

**(Local Machine's ip)
Network added
successfully**

Google Cloud console showing the 'Overview' page for the 'intern-sql-instance'.

The 'Cloud Shell' terminal is open, showing the command to connect to the instance:

```
gcloud sql connect intern-sql-instance --user=root --quiet
```

The terminal output shows the connection details and the MySQL prompt:

```
mysql>
```

**Connect via
Cloud Shell**

```
intern-sql-instance - Overview x API/Service Details - APIs & Ser x What Is My IP Address - See Yo x +
console.cloud.google.com/sql/instances/intern-sql-instance/overview?hl=en&project=sql-instance-476407&cloudshell=true

CLOUD SHELL
Terminal (sql-instance-476407) x + Open Editor
Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. Learn more Don't show again Dismiss

reason: SERVICE DISABLED
nakshatras183@cloudshell:~ (sql-instance-476407)$ gcloud sql connect intern-sql-instance --user=root --quiet
Allowlisting your IP for incoming connection for 5 minutes...done.

Connecting to database with SQL user [root].Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 133
Server version: 8.0.41-google (Google)

Copyright (c) 2000, 2025, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE intern_demo;
Query OK, 1 row affected (0.06 sec)

mysql> USE intern_demo;
Database changed
mysql>
mysql> CREATE TABLE students (
-> id INT AUTO INCREMENT PRIMARY KEY,
-> name VARCHAR(50),
-> domain VARCHAR(30),
-> score INT
-> );
Query OK, 0 rows affected (0.08 sec)
```

C - create Create Database & Table

```
intern-sql-instance - Overview x API/Service Details - APIs & Ser x What Is My IP Address - See Yo x +
console.cloud.google.com/sql/instances/intern-sql-instance/overview?hl=en&project=sql-instance-476407&cloudshell=true

Terminal (sql-instance-476407) x + Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. Learn more

mysql> USE intern_demo;
Database changed
mysql>
mysql> CREATE TABLE students (
-> id INT AUTO_INCREMENT PRIMARY KEY,
-> name VARCHAR(50),
-> domain VARCHAR(30),
-> score INT
-> );
Query OK, 0 rows affected (0.08 sec)

mysql> INSERT INTO students (name, domain, score)
-> VALUES
-> ('Aarav', 'Cloud', 95),
-> ('Diya', 'DevOps', 89),
-> ('Rohan', 'AI', 92);
Query OK, 3 rows affected (0.07 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql>
mysql> SELECT * FROM students;
+----+-----+-----+-----+
| id | name  | domain | score |
+----+-----+-----+-----+
| 1  | Aarav | Cloud  | 95    |
| 2  | Diya  | DevOps | 89    |
| 3  | Rohan | AI     | 92    |
+----+-----+-----+-----+
3 rows in set (0.06 sec)

mysql> 
```

R- read Insert & Read Data


```
intern-sql-instance - Overview x API/Service Details - APIs & Ser x What Is My IP Address - See Yo x +
console.cloud.google.com/sql/instances/intern-sql-instance/overview?hl=en&project=sql-instance-4

Terminal (sql-instance-476407) x + v

Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. Learn more

-> ('Rohan', 'AI', 92);
Query OK, 3 rows affected (0.07 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql>
mysql> SELECT * FROM students;
+----+-----+-----+-----+
| id | name  | domain | score |
+----+-----+-----+-----+
| 1  | Aarav | Cloud  | 95    |
| 2  | Diya  | DevOps | 89    |
| 3  | Rohan | AI     | 92    |
+----+-----+-----+-----+
3 rows in set (0.06 sec)

mysql> UPDATE students
-> SET score = 98
-> WHERE name = 'Aarav';
Query OK, 1 row affected (0.06 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> SELECT * FROM students;
+----+-----+-----+-----+
| id | name  | domain | score |
+----+-----+-----+-----+
| 1  | Aarav | Cloud  | 98    |
| 2  | Diya  | DevOps | 89    |
| 3  | Rohan | AI     | 92    |
+----+-----+-----+-----+
3 rows in set (0.06 sec)


mysql> 
```

U - update
Update the
values

intern-sql-instance - Overview x RPI API/Service Details - APIs & Ser x What Is My IP Address - See Yo x +

console.cloud.google.com/sql/instances/intern-sql-instance/overview?hl=en&project=sql-instance-4764078

Terminal (sql-instance-476407) x + ▾

 Gemini CLI is available in Cloud Shell terminal! Type `gemini` to try it. [Learn more](#)

```
3 rows in set (0.06 sec)

mysql> UPDATE students
      -> SET score = 98
      -> WHERE name = 'Aarav';
Query OK, 1 row affected (0.06 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT * FROM students;
+----+-----+-----+-----+
| id | name  | domain | score |
+----+-----+-----+-----+
| 1  | Aarav | Cloud  | 98    |
| 2  | Diya  | DevOps | 89    |
| 3  | Rohan | AI     | 92    |
+----+-----+-----+-----+
3 rows in set (0.06 sec)

mysql> DELETE FROM students
      -> WHERE name = 'Diya';
Query OK, 1 row affected (0.06 sec)

mysql> SELECT * FROM students;
+----+-----+-----+-----+
| id | name  | domain | score |
+----+-----+-----+-----+
| 1  | Aarav | Cloud  | 98    |
| 3  | Rohan | AI     | 92    |
+----+-----+-----+-----+
2 rows in set (0.06 sec)

mysql> 
```

D - delete
Delete a row



Stop instance to prevent ongoing usage & billing

Configuration	
vCPUs 8	
07:asia-instance	
Uploads and sql-instance operations	
✓ Stopped intern-sql-instance	2:10:08 PM GMT+5
✓ Edited intern-sql-instance	1:57:49 PM GMT+5
✓ Created intern-sql-instance.	1:51:23 PM GMT+5



Delete Instance

Use	Development	Production
	Performant but not highly available, while cost by provisioning less compute.	
Cloud SQL Enterprise Plus edition		
MySQL 8.0		
4 vCPUs, 32 GB RAM, 250 GB SSD storage		
Single-zone		
Uploads and sql-instance operations		
	✓ Deleted intern-sql-instance	2:46:49 PM GMT+5
	✓ Stopped intern-sql-instance	2:10:08 PM GMT+5
	✓ Edited intern-sql-instance	1:57:49 PM GMT+5
	✓ Created intern-sql-instance.	1:51:23 PM GMT+5