

Lab Assignment – 5

Cloud Databases - GCP-SQL

19CSE445 – Cloud Computing

11. HTML Webpage:

- Localhost:

file:///C:/Users/Administrator/Desktop/Codes/sem/index.html

Contact Us

Name	<input type="text" value="Abhinav"/>
Email	<input type="text" value="ravellaabhinav31@gmail.com"/>
Web Address	<input type="text" value="amrita"/>
Comments	<input type="text" value="Semester"/>

Submit

- Access through VM Instance:
Link: <http://35.232.17.123:8080/>

⚠ Not secure | http://35.232.17.123:8080

Contact Us

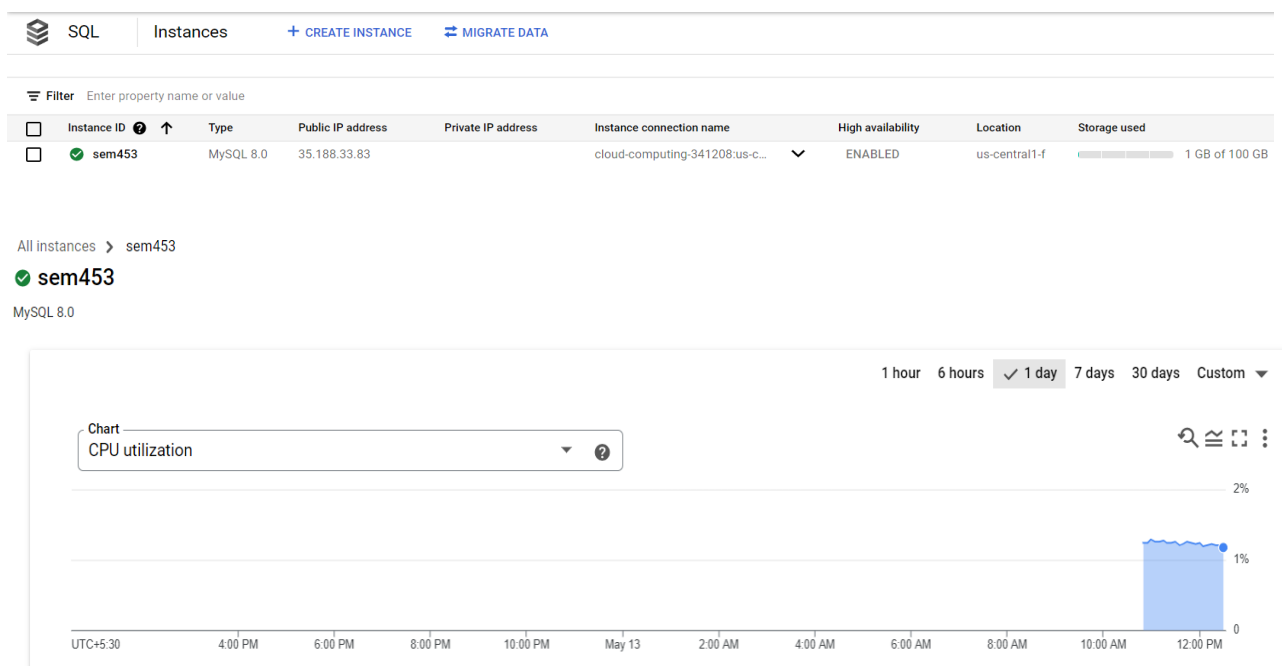
Name	<input type="text" value="Abhinav"/>
Email	<input type="text" value="ravellaabhinav31@gmail.com"/>
Web Address	<input type="text" value="amrita"/>
Comments	<input type="text" value="hi"/>

Submit

12. MySQL Instance:

- Database & Table Creation:

```
create database semester;  
  
use semester;  
  
CREATE TABLE ContactUs(  
    fname VARCHAR(40),  
    email varchar(40) PRIMARY KEY,  
    link varchar(40),  
    subject varchar(100)  
);  
  
select * from ContactUs;
```



Workbench Table Insertion using code:

The screenshot shows the MySQL Workbench interface. The 'Query' tab is active, displaying a SQL script that creates a database named 'semester', uses it, and creates a table named 'ContactUs' with columns 'fname', 'email', 'link', and 'subject'. The table has a primary key on 'fname'. Below the query, the 'Result Grid' shows the output of the query, which is an empty table. The 'Output' tab is also visible, showing the execution log of the query, including the time taken for each step and the number of rows affected.

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigation

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

Object Info Session

Query 1

```
1 create database semester;
2 use semester;
3
4 CREATE TABLE ContactUs (
5   fname VARCHAR(40),
6   email VARCHAR(40) PRIMARY KEY,
7   link VARCHAR(40),
8   subject VARCHAR(40))
```

Result Grid

fname	email	link	subject
undefined	undefined	undefined	undefined
asd	asd@gmail.com	aaaa	aaaa
abhinav	ravelsabhinav31@gmail.com	https://intranet.cb.amrita.edu/	Test
cloud	cloud@gmail.com	cloud.com	19445

Output

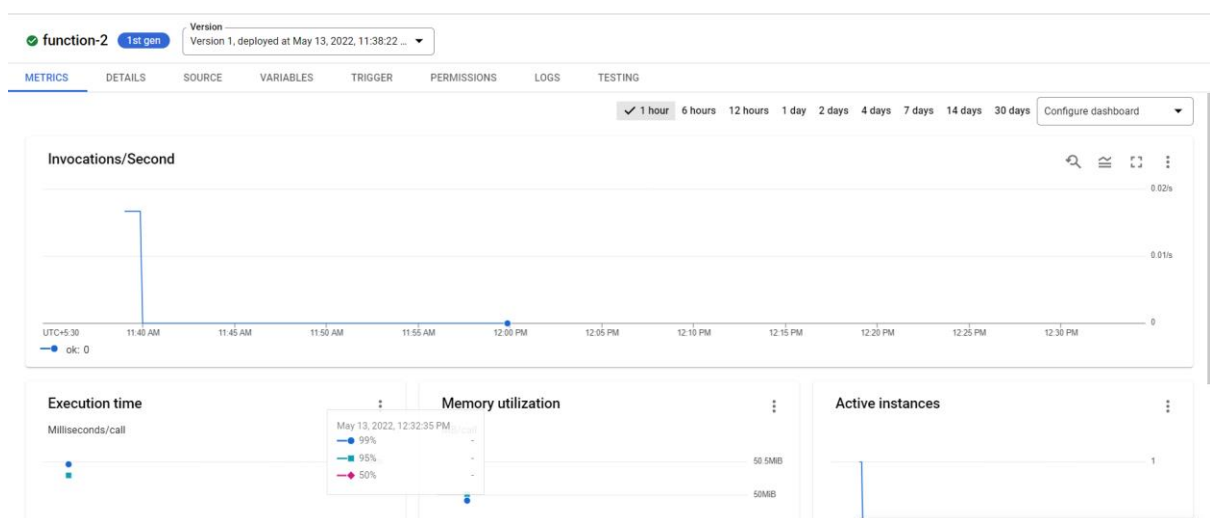
Action Output

#	Time	Action	Message	Duration / Fetch
1	10:57:28	create database semester	1 row(s) affected	0.250 sec
2	10:57:31	use semester	0 row(s) affected	0.250 sec
3	10:57:35	CREATE TABLE ContactUs (fname VARCHAR(40), email varchar(40) PRIMARY KEY, link varchar(40), s...	0 row(s) affected	0.266 sec
4	10:57:40	select * from ContactUs LIMIT 0, 1000	0 row(s) returned	0.250 sec / 0.000 sec
5	11:09:26	select * from ContactUs LIMIT 0, 1000	1 row(s) returned	0.235 sec / 0.000 sec
6	11:10:55	DROP table ContactUs	0 row(s) affected	0.266 sec
7	11:10:59	select * from ContactUs LIMIT 0, 1000	Error Code: 1146. Table 'semester.ContactUs' doesn't exist	0.250 sec
8	11:11:09	CREATE TABLE ContactUs (fname VARCHAR(40), email varchar(40), link varchar(40), subject varchar(1...	0 row(s) affected	0.266 sec
9	11:11:13	select * from ContactUs LIMIT 0, 1000	0 row(s) returned	0.234 sec / 0.000 sec
10	11:13:16	select * from ContactUs LIMIT 0, 1000	2 row(s) returned	0.234 sec / 0.000 sec
11	11:14:17	select * from ContactUs LIMIT 0, 1000	3 row(s) returned	0.234 sec / 0.000 sec
12	11:55:07	select * from ContactUs LIMIT 0, 1000	4 row(s) returned	0.265 sec / 0.000 sec

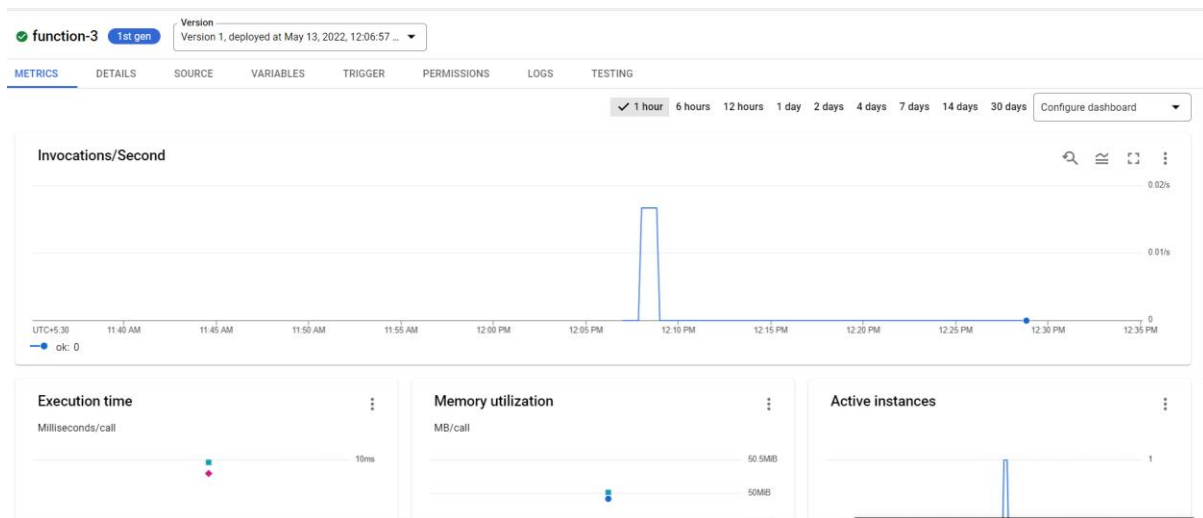
13. Function Creation:

<input type="checkbox"/>	<input checked="" type="checkbox"/>	1st gen	function-2	us-central1	HTTP	Node.js 16	256 MB	helloWorld	May 13, 2022, 11:38:22 AM	⋮
<input type="checkbox"/>	<input checked="" type="checkbox"/>	1st gen	function-3	us-central1	HTTP	Node.js 16	256 MB	helloWorld	May 13, 2022, 12:06:57 PM	⋮

Function-1:



Function-2:



14. Webpage Validation:

- If email not filled:

Contact Us

Name	Abhinav
Email	
Web Address	amrita
Comments	hi

Submit

Errors:

Hi,Welcome Abhinav

Errors:

2. Invalid Mail Format or should not be null

15. If no errors:

- Then nothing will be printed under errors:
- Text file is not done

Hi,Welcome Abhinav

Errors:

Codes:

Servers and client files in the folder

```
var http = require("http");
var path = require("path");
var fs = require('fs');

http.createServer(function (req, res) {
  fs.readFile(__dirname + '/index.html', function (err,data) {
    if (err) {
      res.writeHead(404);
      res.end(JSON.stringify(err));
      return;
    }
    res.writeHead(200);
    res.end(data);
  });
}).listen(8080);

// Console will print the message
console.log('Server running at 8080');
```