Practice Lab 2: GCP Cloud SQL – gcloud Commands

Objective: Test your understanding of basic Google Cloud SQL commands using gcloud. Complete each task by writing the correct gcloud CLI command.

Instructions

- 1. For each of the tasks below, write the appropriate gcloud command
- 2. If the command produces output in the terminal, include it in the terminal output field.
- 3. If the command has **no terminal output**, set "terminal output" to null.
- Save all your answers as an array of JSON objects, each having:
 - "task": a brief description of the task as given below
 - "command": your gcloud command
 - "terminal output": actual output or null
- 5. Place the JSON file inside a .zip file and upload it as your final submission.
- 6. Name the submission zip as <student ID> sql commands.zip

Tasks

- 1. Enable gcloud admin API
- 2. Create a new instance for cloud SQL for database engine [Engine] with db-f1-micro tier in the asia-southeast1 region.
- 3. List all the available instances
- 4. Create a database in the same instance
- 5. Create a user with password in the same instance
- 6. Get public IP of the instance
- 7. Run Cloud SQL Auth Proxy
- 8. Command to login using mysql/psql shell

Sample Code for reference

```
[
    "task": "Command to setup the project",
    "command": "gcloud config set project [project_id]",
    "terminal_output": "Project set to [project_id]"
    },
    {
        "task": "List all storage buckets",
        "command": "<Your command here>",
        "terminal_output": "<your terminal output here>" OR "null"
    },
]
```

Submission Form Link: https://forms.gle/g4obV2b1Eaoh5uwU8

Deadline: May 10th 2025
