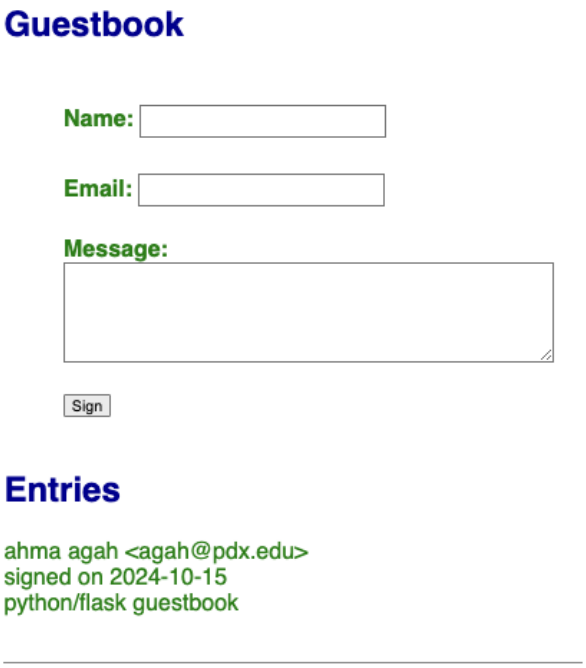
AHMAD AGAH CS856 Lab#3

03.1 Python Flask Guestbook

03.1.5 Running the code

- Add an entry that includes your PSU e-mail address in it and the message "python/flask guestbook". Take a screenshot of the resulting page for your lab notebook.



3.2 SQL, Cloud SQL, RDS

3.2.2 SQL quiz

- Take the quiz and include a screenshot with your OdinID on it of the "Check your answers" page at the end of the quiz.

3.2.3 GCP Cloud SQL

- What are the names of the tables that are created?
    1. Accommodation
    2. Rating
    3. Recommendation
- What are the primary keys of each table?
    1. Accommodation – ID
    2. Rating – (accoId, userId) composite key
    3. Recommendation – (userId, accoId) composite key

- What data (e.g. columns) does the Accommodation table hold?
    1. `id`: `varchar(255) - string`
    2. `title`: `varchar(255) - string`
    3. `location`: `varchar(255) -string`
    4. `price`: `int`
    5. `rooms`: `int`
    6. `rating`: `float`
    7. `type`: `varchar(255) -  string`

- Assuming the column data is ordered as in the DDL, list the attributes and their values for each accommodation in Dublin.

Pleasant Quiet Place

- Location: Dublin
- Price: 35
- Number of Guests: 5
- Rating: 4.3
- Type: House

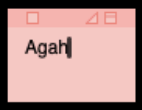
Great Private Country House

- Location: Dublin
- Price: 1150
- Number of Guests: 10
- Rating: 2.4
- Type: Mansion

3.2.7 Cloud SQL from Cloud Shell

- Take screenshots of the output of each query for your lab notebook.

```
mysql> select * from Accommodation where price < 100;
+----+--------------------------+---------------+-------+-------+--------+---------+
| id | title                    | location      | price | rooms | rating | type    |
+----+--------------------------+---------------+-------+-------+--------+---------+
| 1  | Comfy Quiet Chalet       | Vancouver     |    50 |     3 |    3.1 | cottage |
| 11 | Homy Quiet Shanty        | Melbourne     |    50 |     1 |    2.8 | cottage |
| 12 | Beautiful Peaceful Villa | Seattle       |    90 |     2 |    2.1 | house   |
| 16 | Large Calm House         | Melbourne     |    45 |     3 |    4.1 | house   |
| 18 | Big Peaceful Hut         | Melbourne     |    60 |     2 |    2.4 | cottage |
| 2  | Cozy Calm Hut            | London        |    65 |     2 |    4.1 | cottage |
| 21 | Big Peaceful Cabin       | Seattle       |    80 |     2 |    4.9 | cottage |
| 22 | Pleasant Peaceful House  | Auckland      |    50 |     5 |    3.5 | house   |
| 23 | Homy Calm House          | Paris         |    70 |     2 |      2 | cottage |
| 24 | Nice Private Cottage     | San Francisco |    40 |     2 |    1.1 | cottage |
| 25 | Nice Calm Chalet         | Seattle       |    55 |     2 |    4.5 | cottage |
| 3  | Agreable Calm Place      | London        |    65 |     4 |    4.8 | house   |
| 33 | Pleasant Calm Place      | Tokyo         |    30 |     2 |    4.8 | house   |
| 36 | Comfy Private Shanty     | NYC           |    80 |     1 |    3.7 | cottage |
| 38 | Big Private House        | San Francisco |    70 |     4 |    2.9 | house   |
| 39 | Beautiful Calm Villa     | Vancouver     |    50 |     3 |    3.5 | house   |
| 43 | Nice Private Hut         | Melbourne     |    60 |     3 |    2.8 | cottage |
| 49 | Big Private Villa        | NYC           |    90 |     2 |    4.8 | house   |
| 5  | Homy Quiet Shack         | Paris         |    50 |     1 |    1.1 | cottage |
| 51 | Nice Quiet Hut           | Auckland      |    70 |     3 |    1.4 | cottage |
| 53 | Comfy Private Shanty     | Buenos Aires  |    40 |     2 |    4.6 | cottage |
| 55 | Cozy Peaceful Hut        | London        |    75 |     2 |    1.7 | cottage |
| 58 | Nice Calm Cottage        | Berlin        |    40 |     3 |    3.9 | cottage |
| 59 | Large Peaceful Place     | Tokyo         |    55 |     5 |    1.2 | house   |
| 6  | Pleasant Quiet Place     | Dublin        |    35 |     5 |    4.3 | house   |
| 61 | Large Calm Place         | NYC           |    60 |     2 |    1.3 | house   |
| 62 | Comfy Calm Cabin         | Buenos Aires  |    65 |     2 |    4.3 | cottage |
| 65 | Comfy Private Chalet     | NYC           |    45 |     2 |      1 | cottage |
| 66 | Beautiful Private Villa  | London        |    80 |     2 |    2.4 | house   |
| 69 | Homy Quiet House         | NYC           |    65 |     1 |    3.1 | cottage |
| 71 | Cozy Calm Hut            | San Francisco |    55 |     2 |    3.8 | cottage |
| 72 | Beautiful Calm Place     | Paris         |    80 |     4 |    2.1 | house   |
| 73 | Nice Peaceful Cabin      | London        |    60 |     1 |    3.4 | cottage |
| 75 | Large Private Place      | Berlin        |    50 |     4 |    3.6 | house   |
| 76 | Pleasant Calm Villa      | Berlin        |    30 |     2 |    2.4 | house   |
| 80 | Big Quiet Cabin          | San Francisco |    40 |     3 |    4.3 | cottage |
| 81 | Homy Quiet Shack         | Seattle       |    70 |     3 |    2.2 | cottage |
| 82 | Cozy Peaceful Cabin      | San Francisco |    75 |     1 |    1.6 | cottage |
| 83 | Comfy Calm Shack         | San Francisco |    40 |     3 |    3.4 | cottage |
| 85 | Nice Private Shack       | Auckland      |    55 |     1 |    4.9 | cottage |
| 89 | Nice Private House       | Seattle       |    45 |     2 |    3.2 | cottage |
| 90 | Big Quiet House          | Seattle       |    35 |     5 |    3.2 | house   |
| 92 | Cozy Quiet Bungalow      | San Francisco |    85 |     3 |    3.5 | cottage |
| 97 | Cozy Quiet Chalet        | Auckland      |    75 |     1 |    2.3 | cottage |
| 99 | Pleasant Quiet Place     | NYC           |    80 |     4 |    3.2 | house   |
+----+--------------------------+---------------+-------+-------+--------+---------+
45 rows in set (0.01 sec)
```



```
mysql> select * from Accommodation where price between 100 and 1000;
+----+--------------------------------+---------------+-------+-------+--------+----------+
| id | title                          | location      | price | rooms | rating | type     |
+----+--------------------------------+---------------+-------+-------+--------+----------+
| 10 | Sizable Calm Country House     | Auckland      |   650 |     9 |    4.9 | mansion  |
| 17 | Large Calm Sately House        | NYC           |   850 |     9 |    1.2 | mansion  |
| 20 | Big Private Hall               | Buenos Aires  |   650 |    12 |    1.2 | mansion  |
| 28 | Beautiful Calm Villa           | Tokyo         |   110 |     2 |    4.2 | house    |
| 29 | Big Quiet Manor                | San Francisco |   650 |    12 |    4.3 | mansion  |
| 30 | Large Peaceful House           | Berlin        |   110 |     5 |    2.3 | house    |
| 32 | Immense Private Hall           | Seattle       |   850 |    12 |      1 | mansion  |
| 41 | Big Calm Manor                 | Seattle       |   800 |    11 |    2.7 | mansion  |
| 42 | Large Calm Residence           | London        |   900 |    12 |    2.4 | mansion  |
| 47 | Sizable Calm Sately House      | Seattle       |   900 |    10 |    1.5 | mansion  |
| 56 | Sizable Private Residence      | London        |   800 |    11 |    3.5 | mansion  |
| 57 | Immense Quiet Residence        | Auckland      |   800 |    11 |    3.5 | mansion  |
| 84 | Great Peaceful Sately House    | Melbourne     |   700 |     8 |    3.2 | mansion  |
| 86 | Large Quiet House              | London        |   100 |     4 |      4 | house    |
| 87 | Immense Peaceful Hall          | San Francisco |   850 |    12 |    4.4 | mansion  |
| 91 | Large Peaceful Hall            | Melbourne     |   650 |    10 |    1.9 | mansion  |
| 95 | Great Calm Hall                | San Francisco |   800 |    11 |    3.8 | mansion  |
| 96 | Immense Private Country House  | Tokyo         |   800 |     9 |    3.8 | mansion  |
+----+--------------------------------+---------------+-------+-------+--------+----------+
18 rows in set (0.00 sec)

mysql>
```

Agah

3.2.15 RDS test instance

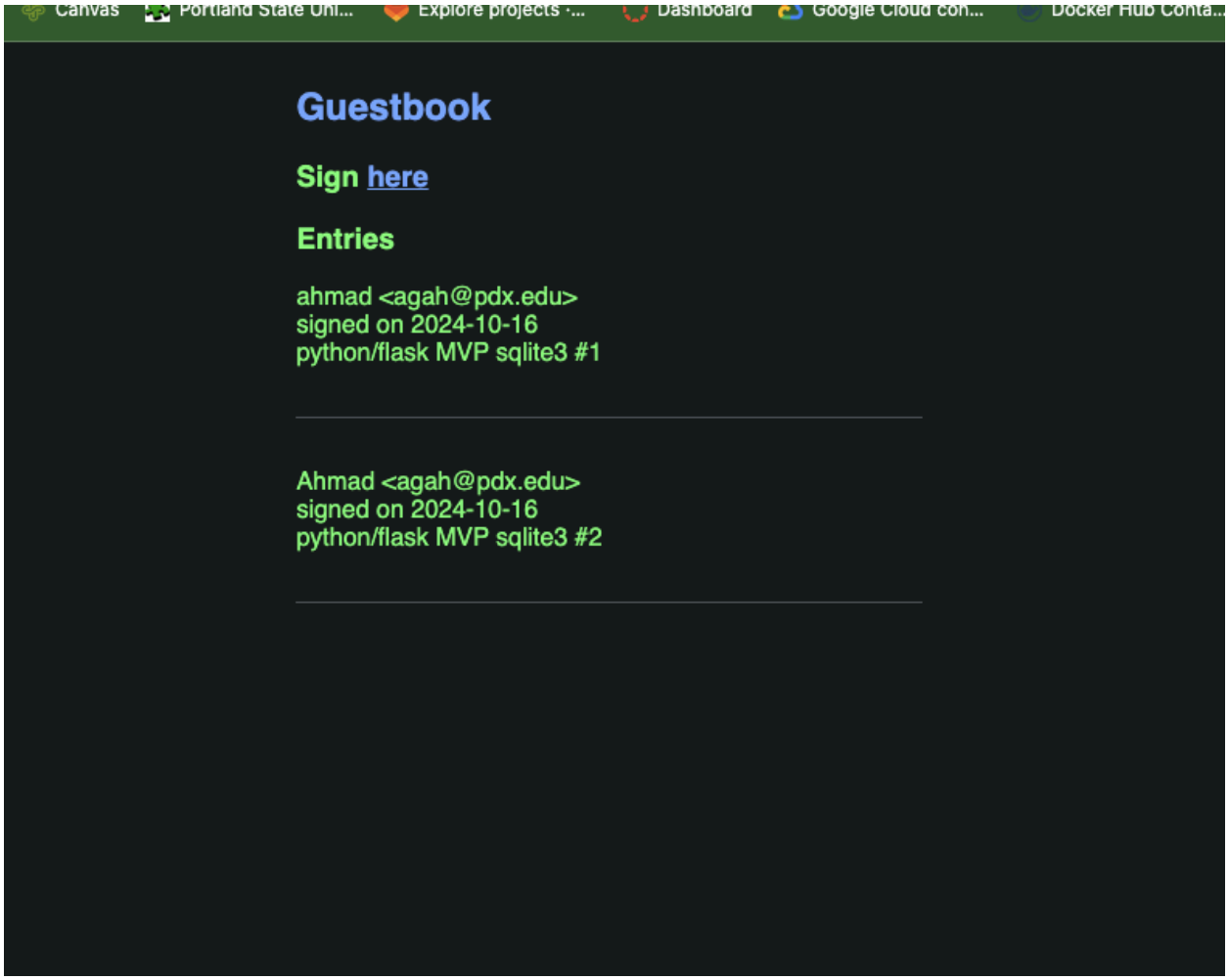
- Show a screenshot of the successful connection similar to below that includes your OdinID

```
us-east-2  +

[cloudshell-user@ip-10-134-75-245 ~]$ curl http://ipecho.net/plain ; echo
3.19.246.111
[cloudshell-user@ip-10-134-75-245 ~]$ ls
[cloudshell-user@ip-10-134-75-245 ~]$ mysql -h aws-rds-lab.chmeiu6weh1t.us-east-2.rds.amazonaws.com -P 3306 -u admin -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 25
Server version: 8.0.39 Source distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MySQL [(none)]> My OdinID is agah
```

3.3 sqlite2 Guestbook

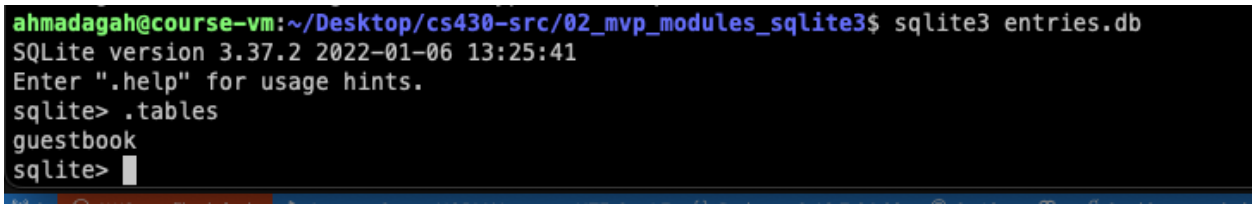
03.3.4 sqlite3 Guestbook

- Take a screenshot of the resulting page for your lab notebook

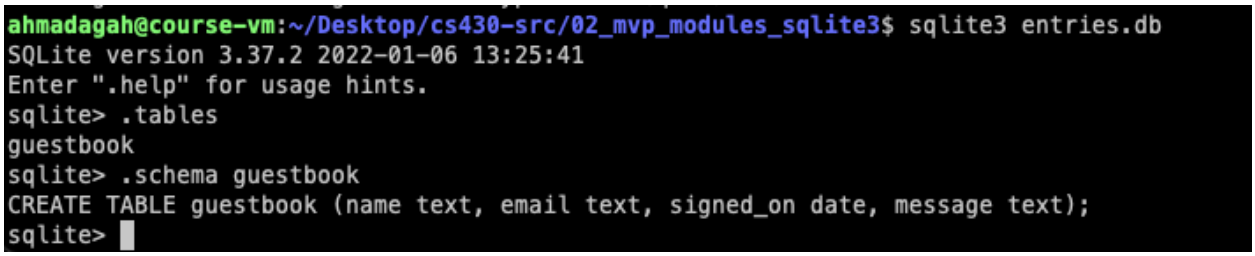


3.3.5 sqlite3 database

- List the tables in the database and note the table name



- Then, output the schema for the table via its name



- Finally, perform a SQL query to dump out all rows in the table