03.1: Python Flask Guestbook

1. Python Flask

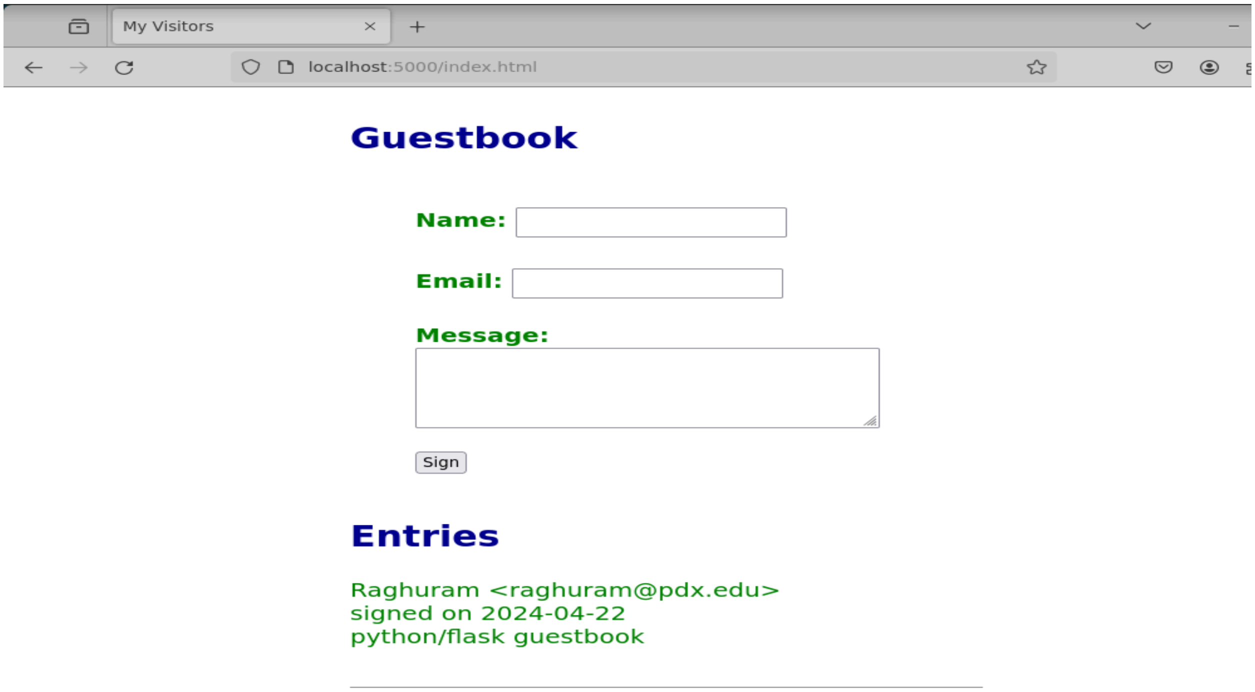
2. Model

3. Controller

4. View

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.



Guestbook

Name:

Email:

Message:

Entries

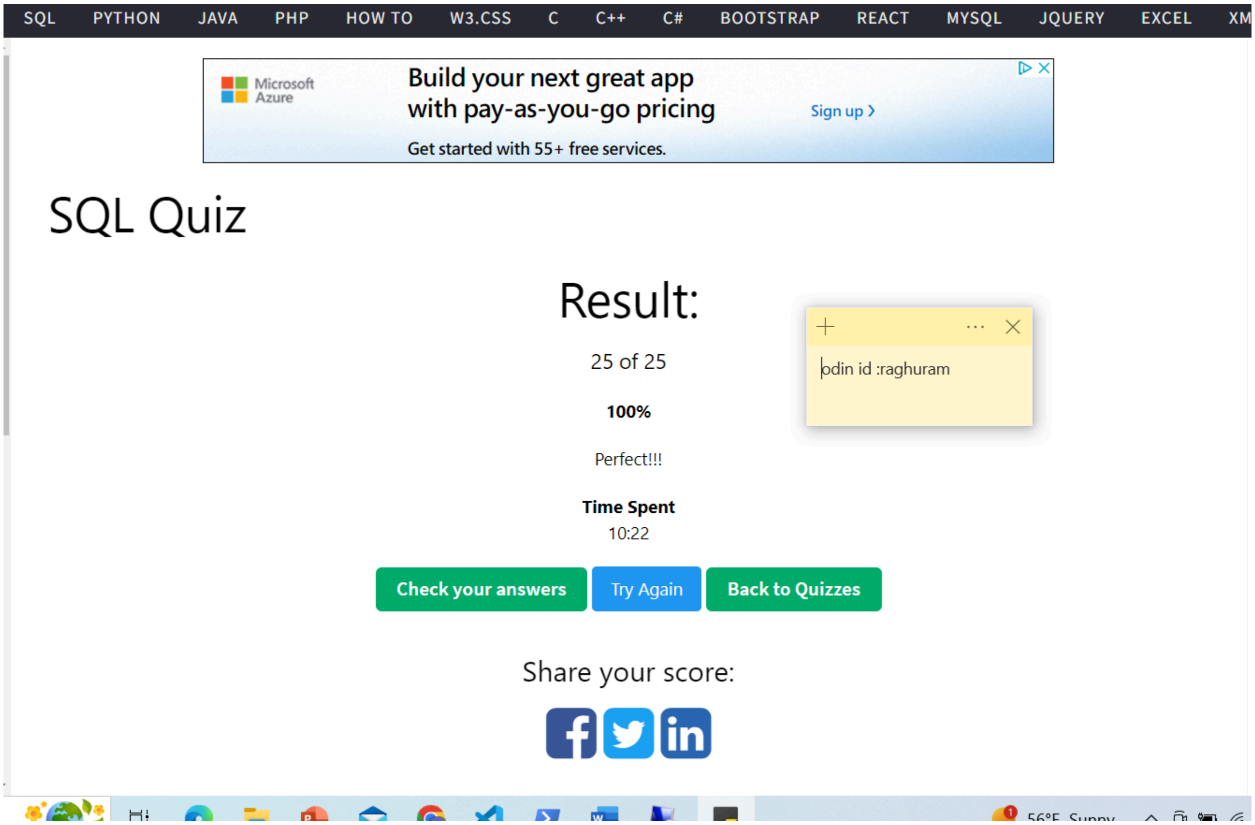
Raghuram <raghuram@pdx.edu>
signed on 2024-04-22
python/flask guestbook

03.2ag: SQL

1. SQL, Cloud SQL, RDS

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.



SQL Quiz

Result:

25 of 25

100%

Perfect!!!

Time Spent
10:22

odin id :raghuram

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) **For Accommodation primary key is ‘ID’**
    2) **For Rating primary key is ‘accoId, userId’**
    3) **For Recommendation primary key is ‘userId, accoId’**

- What data (e.g. columns) does the Accommodation table hold?

id ,

title varchar,

location varchar,

price int,

rooms ,

rating ,

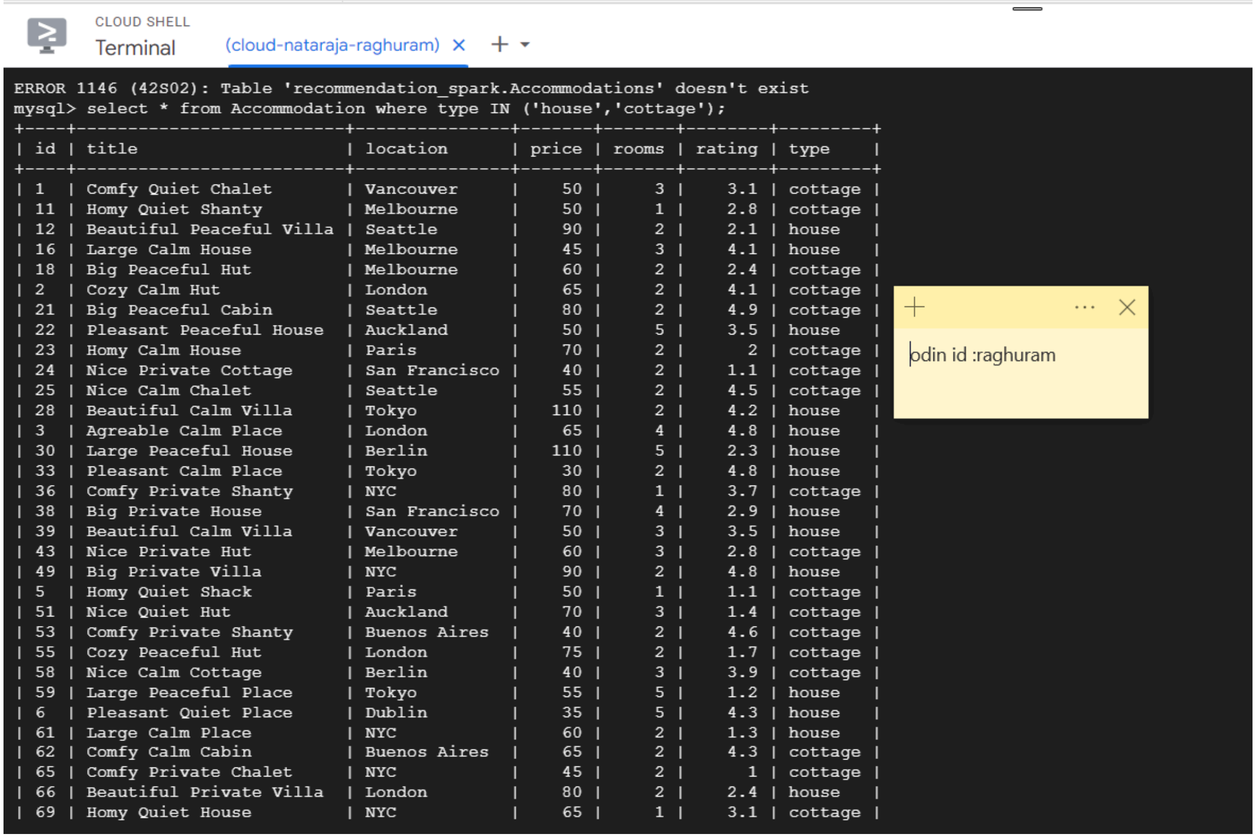
type

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

```
1)
ID: 6
Name: Pleasant Quiet Place
Location: Dublin
Price: 35
Rooms: 5
Rating: 4.3
Type: house

2)
ID: 77
Name: Great Private Country House
Location: Dublin
Price: 1150
Rooms: 10
Rating: 2.4
Type: mansion
```

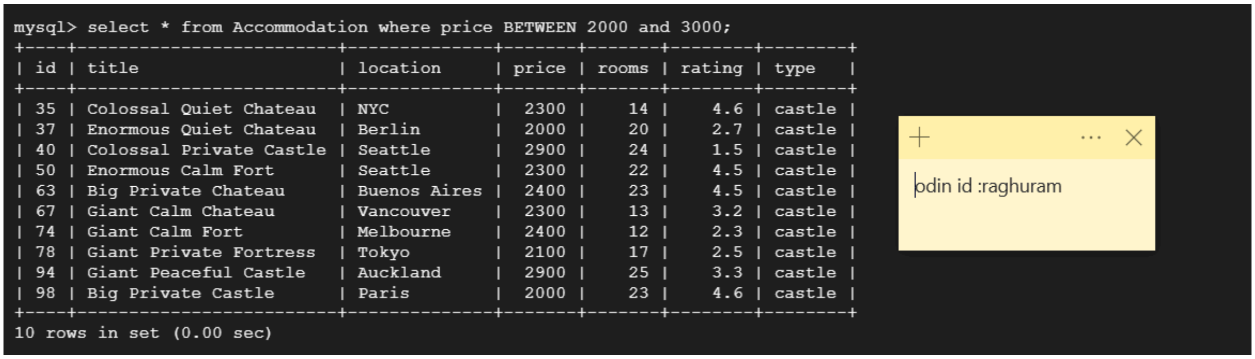
7. Cloud SQL from Cloud Shell

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



```
ERROR 1146 (42S02): Table 'recommendation_spark.Accommodations' doesn't exist
mysql> select * from Accommodation where type IN ('house','cottage');
+----+--------------------------+---------------+-------+-------+--------+---------+
| 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 |
| 28 | Beautiful Calm Villa     | Tokyo         |   110 |     2 |    4.2 | house   |
| 3  | Agreable Calm Place      | London        |    65 |     4 |    4.8 | house   |
| 30 | Large Peaceful House     | Berlin        |   110 |     5 |    2.3 | 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 |
```

odin id :raghuram

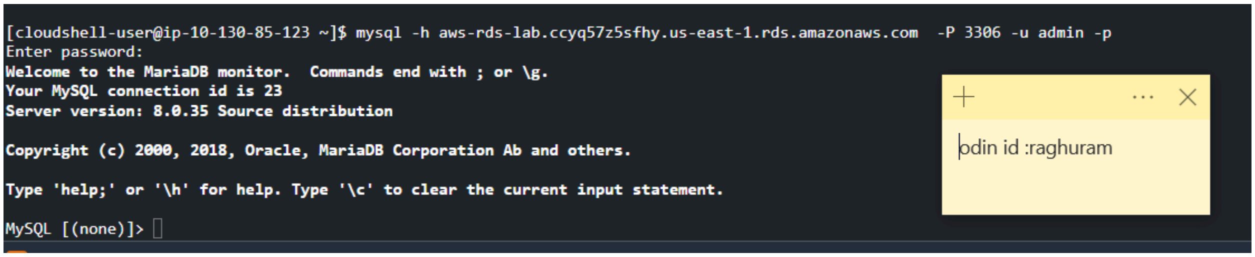


```
mysql> select * from Accommodation where price BETWEEN 2000 and 3000;
+----+-------------------------+--------------+-------+-------+--------+--------+
| id | title                   | location     | price | rooms | rating | type   |
+----+-------------------------+--------------+-------+-------+--------+--------+
| 35 | Colossal Quiet Chateau  | NYC          |  2300 |    14 |    4.6 | castle |
| 37 | Enormous Quiet Chateau  | Berlin       |  2000 |    20 |    2.7 | castle |
| 40 | Colossal Private Castle | Seattle      |  2900 |    24 |    1.5 | castle |
| 50 | Enormous Calm Fort      | Seattle      |  2300 |    22 |    4.5 | castle |
| 63 | Big Private Chateau     | Buenos Aires |  2400 |    23 |    4.5 | castle |
| 67 | Giant Calm Chateau      | Vancouver    |  2300 |    13 |    3.2 | castle |
| 74 | Giant Calm Fort         | Melbourne    |  2400 |    12 |    2.3 | castle |
| 78 | Giant Private Fortress  | Tokyo        |  2100 |    17 |    2.5 | castle |
| 94 | Giant Peaceful Castle   | Auckland     |  2900 |    25 |    3.3 | castle |
| 98 | Big Private Castle      | Paris        |  2000 |    23 |    4.6 | castle |
+----+-------------------------+--------------+-------+-------+--------+--------+
10 rows in set (0.00 sec)
```

odin id :raghuram

15. RDS test instance

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



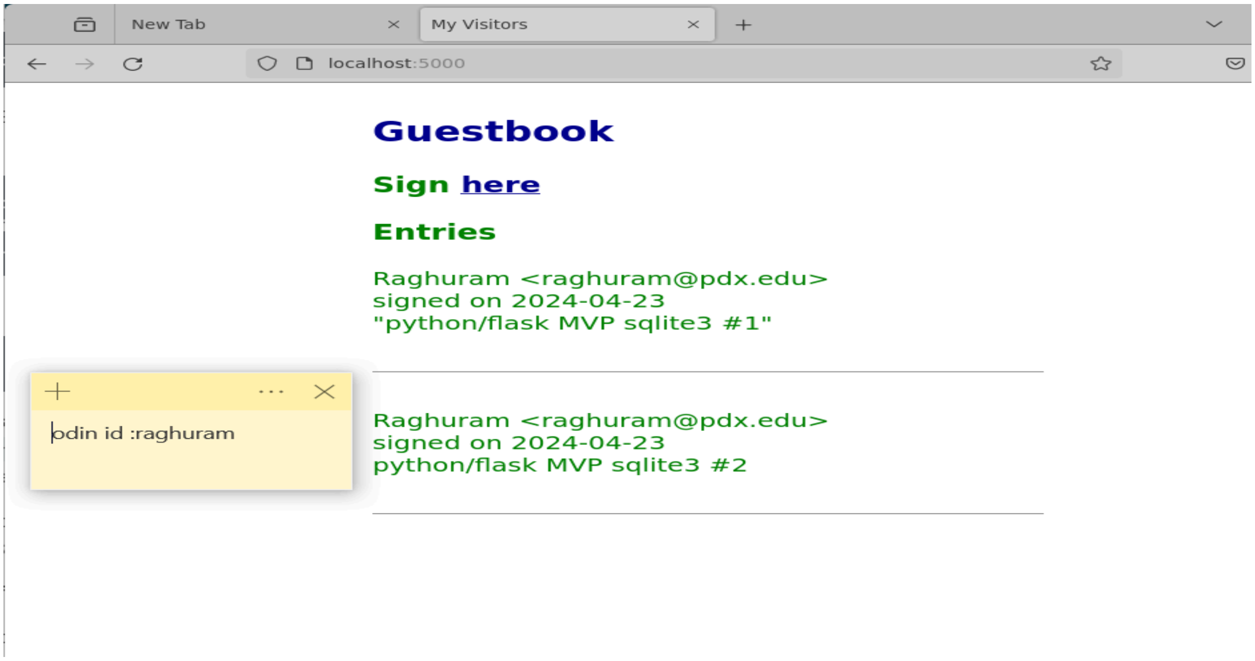
```
[cloudshell-user@ip-10-130-85-123 ~]$ mysql -h aws-rds-lab.ccyq57z5sfhy.us-east-1.rds.amazonaws.com  -P 3306 -u admin -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 23
Server version: 8.0.35 Source distribution

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)]>
```

odin id :raghuram

03.3: sqlite3 Guestbook

4. Running the code

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



Guestbook

Sign here

Entries

Raghuram <raghuram@pdx.edu>
signed on 2024-04-23
"python/flask MVP sqlite3 #1"

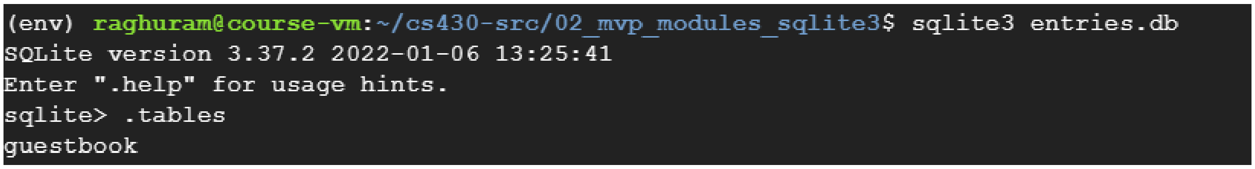
Raghuram <raghuram@pdx.edu>
signed on 2024-04-23
python/flask MVP sqlite3 #2

odin id :raghuram

5. sqlite3 database

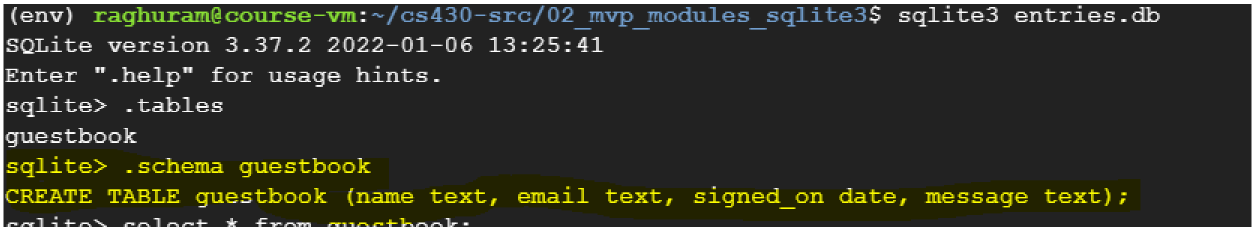
Then, within the sqlite client, perform the following commands and take a screenshot of their output to include in your lab notebook.

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



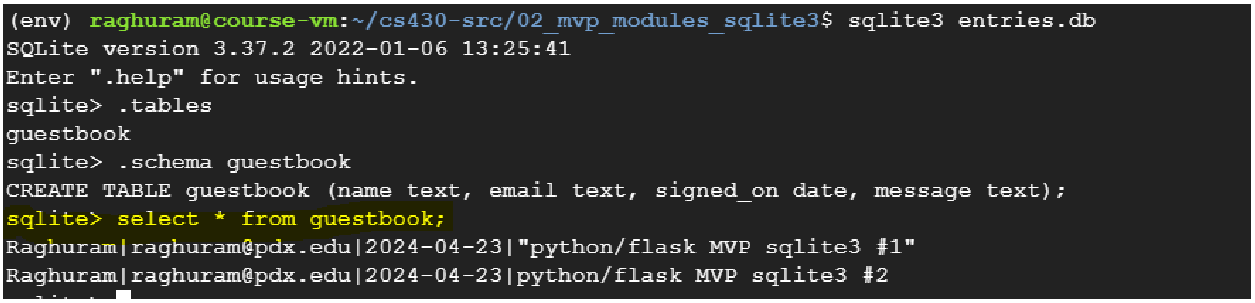
```
(env) raghuram@course-vm:~/cs430-src/02_mvp_modules_sqlite3$ sqlite3 entries.db
SQLite version 3.37.2 2022-01-06 13:25:41
Enter ".help" for usage hints.
sqlite> .tables
guestbook
```

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



```
(env) raghuram@course-vm:~/cs430-src/02_mvp_modules_sqlite3$ sqlite3 entries.db
SQLite version 3.37.2 2022-01-06 13:25:41
Enter ".help" for usage hints.
sqlite> .tables
guestbook
sqlite> .schema guestbook
CREATE TABLE guestbook (name text, email text, signed_on date, message text);
sqlite> select * from guestbook;
```

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



```
(env) raghuram@course-vm:~/cs430-src/02_mvp_modules_sqlite3$ sqlite3 entries.db
SQLite version 3.37.2 2022-01-06 13:25:41
Enter ".help" for usage hints.
sqlite> .tables
guestbook
sqlite> .schema guestbook
CREATE TABLE guestbook (name text, email text, signed_on date, message text);
sqlite> select * from guestbook;
Raghuram|raghuram@pdx.edu|2024-04-23|"python/flask MVP sqlite3 #1"
Raghuram|raghuram@pdx.edu|2024-04-23|python/flask MVP sqlite3 #2
sqlite> 
```