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CS 430 Lab 3

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3.1: Python Flask Guestbook

5. Running the Code

localhost:5000/index.html

Guestbook

Name:

Email:

Message:

Sign

Entries

Bradley Chang <brachang@pdx.edu>
signed on 2025-01-25
python/flask guestbook

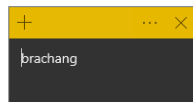
3.2ag: SQL

2. SQL quiz

SQL Quiz Results

Score: 22 of 25

88% Correct:



Question 1:

What does SQL stand for?

✓ Structured Query Language

Your answer

Strong Question Language

Structured Question Language

3. GCP Cloud SQL

What are the names of the tables that are created?

The tables are named Accommodation, Rating, and Recommendation

What are the primary keys of each table?

Accommodation: ID

Rating: accoID, userID

Recommendation: userID, accoID

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

It holds the id, title, location, price, rooms, rating, and type.

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

6,Pleasant Quiet Place,Dublin,35,5,4.3,house

77,Great Private Country House,Dublin,1150,10,2.4,mansion

7. Cloud SQL from Cloud Shell

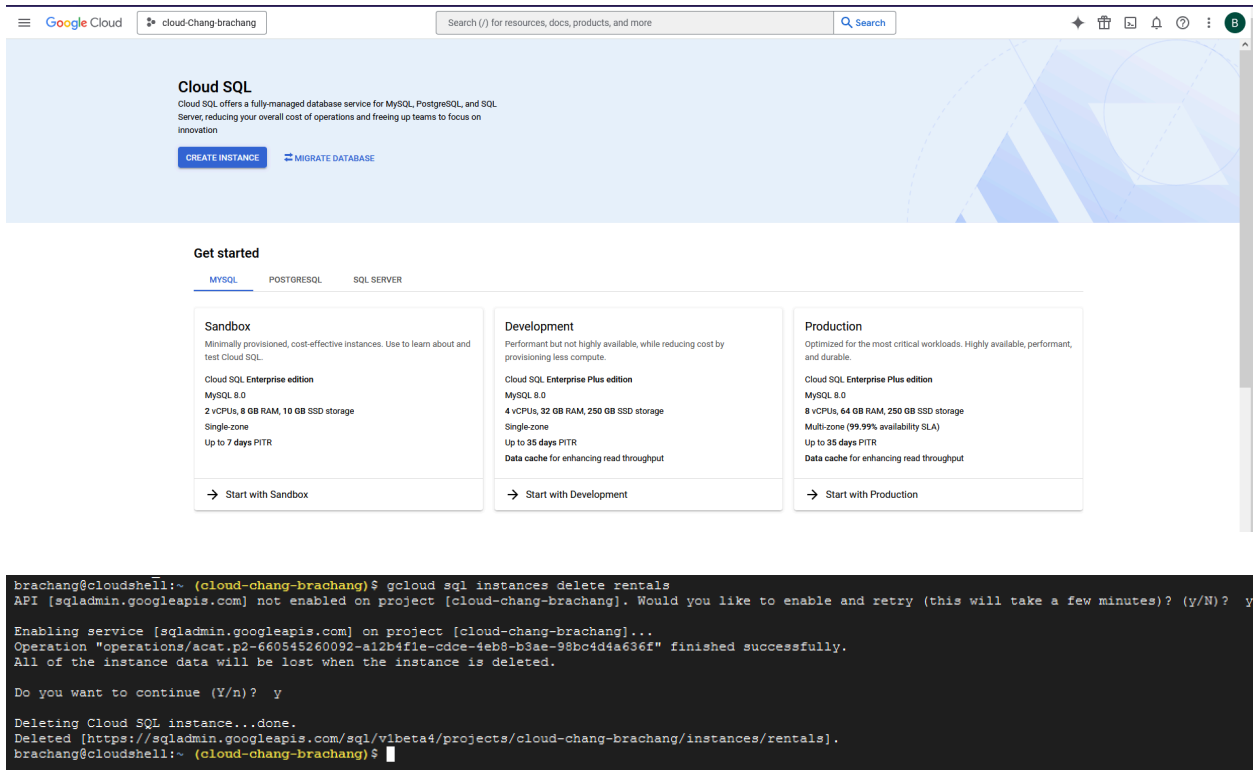
```
mysql> clear
mysql> select * from Accommodation where price < 100;
```

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	Agreeable 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>
```

8. Cloud SQL cleanup



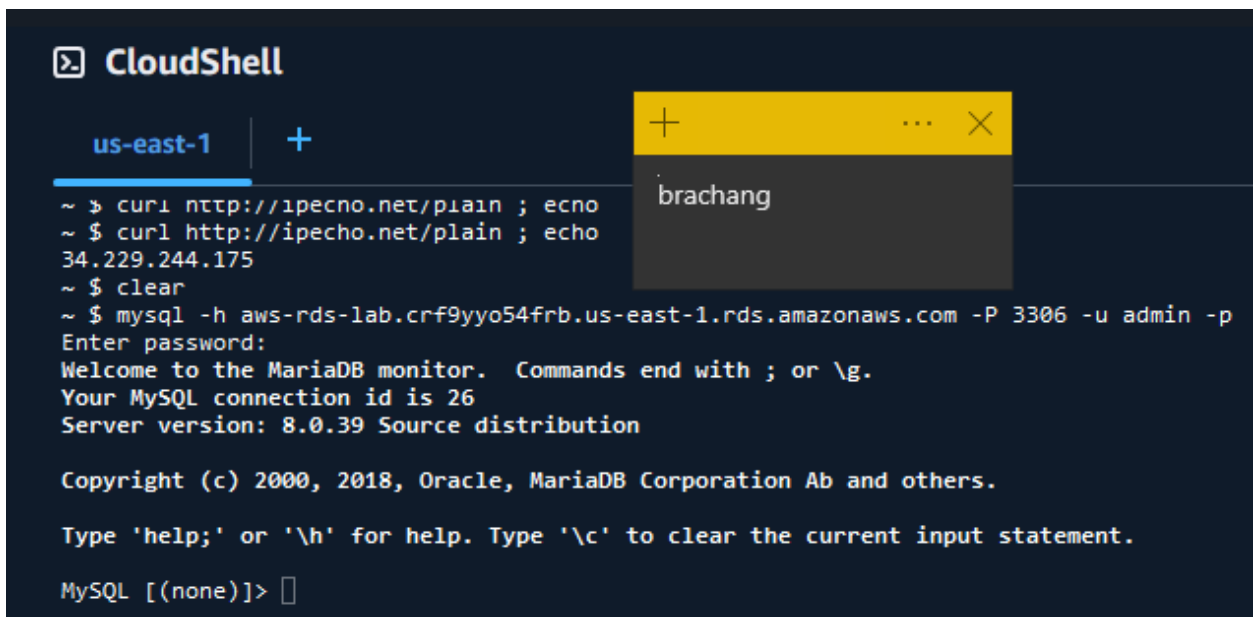
```
brachang@cloudshell:~ (cloud-chang-brachang)$ gcloud sql instances delete rentals
API [sqladmin.googleapis.com] not enabled on project [cloud-chang-brachang]. Would you like to enable and retry (this will take a few minutes)? (y/N)? y

Enabling service [sqladmin.googleapis.com] on project [cloud-chang-brachang]...
Operation "operations/acat.p2-660545260092-a12b4fie-cdce-4eb8-b3ae-98bc4d4a636f" finished successfully.
All of the instance data will be lost when the instance is deleted.

Do you want to continue (Y/n)? y

Deleting Cloud SQL instance...done.
Deleted [https://sqladmin.googleapis.com/sql/v1beta4/projects/cloud-chang-brachang/instances/rentals].
brachang@cloudshell:~ (cloud-chang-brachang)$
```

15. RDS test instance



```
CloudShell

us-east-1 +

~$ curl http://ipecho.net/plain ; echo
34.229.244.175
~$ clear
~$ mysql -h aws-rds-lab.crf9yyo54frb.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 26
Server version: 8.0.39 Source distribution

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

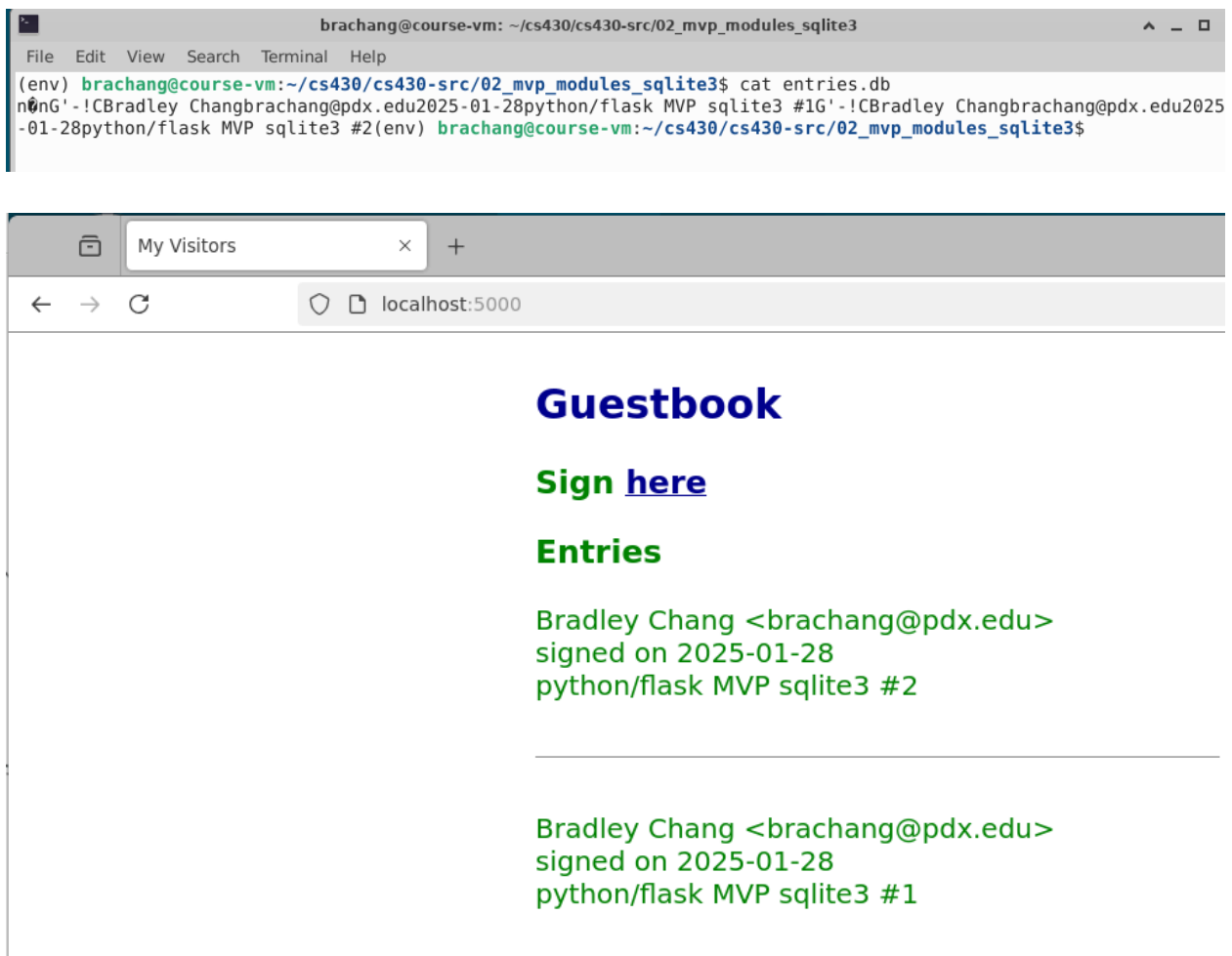
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MySQL [(none)]>
```

3.3 sqlite3 Guestbook

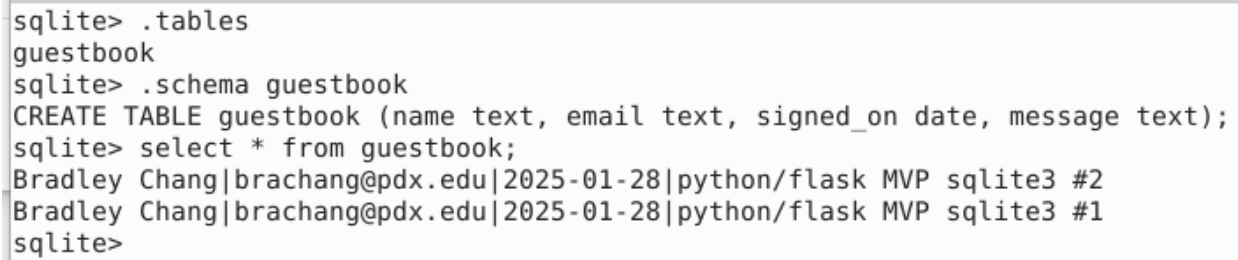
4. Running the code

Take a screenshot of the resulting page for your lab notebook



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.

A screenshot of a terminal window with a dark background. The terminal shows the sqlite3 command-line interface. The user enters several commands: '.tables' which returns 'guestbook'; '.schema guestbook' which returns the CREATE TABLE statement for 'guestbook'; and 'select * from guestbook;' which returns two rows of data. The window has a menu bar at the top with options: File, Edit, View, Search, Terminal, Help.

```
sqlite> .tables
guestbook
sqlite> .schema guestbook
CREATE TABLE guestbook (name text, email text, signed_on date, message text);
sqlite> select * from guestbook;
Bradley Chang|brachang@pdx.edu|2025-01-28|python/flask MVP sqlite3 #2
Bradley Chang|brachang@pdx.edu|2025-01-28|python/flask MVP sqlite3 #1
sqlite>
```