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3.1: Python Flask Guestbook

3.1.1 Python Flask

3.1.2 Model

3.1.3 View

3.1.4 Controller

3.1.5 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.

localhost:5000/index.html

Guestbook

Name:

Email:

Message:

Entries

Sriram Nurani Subramanyam <srirams@pdx.edu>
signed on 2024-10-18
python/flask guestbook

3.2ag: SQL

3.2.1 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.

SQL Quiz

Result:

25 of 25

100%

Perfect!!!

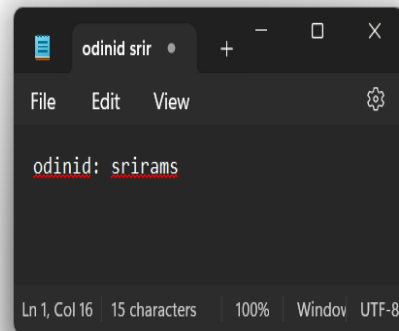
Time Spent

4:34

Check your answers

Try Again

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https://www.w3schools.com/quiztest/result.asp

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JAVASCRIPT SQL PYTHON JAVA PHP HOW TO W3.CSS C C++ C# BOOTSTRAP REACT MYSQL JQUERY

Quizzes

START Download PDF Download

SQL Quiz Results

Score: 25 of 25

100% Correct:

Question 1:

What does SQL stand for?

- ✓ Structured Query Language Your answer
- Strong Question Language
- Structured Question Language

Ln 1, Col 16 | 15 characters | 100% | Window UTF-8

3.2.3 GCP Cloud SQL

- **What are the names of the tables that are created?**
 - Recommendation
 - Rating
 - Accommodation
- **What are the primary keys of each table?**
 1. For Accommodation primary key is 'ID'
 2. For Rating primary key is 'accId, userId'
 3. For Recommendation primary key is 'userId, accId'
- **What data (e.g. columns) does the Accommodation table hold?**

id varchar(255),

title varchar(255),

location varchar(255),

price int,
rooms int,
rating float,
type varchar(255),

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

1.

"ID": 6,
"title": "Pleasant Quiet Place",
"location": "Dublin",
"price": 35,
"rooms": 5,
"rating": 4.3,
"type": "house"

2.

"ID": 77,
"title": "Great Private Country House",
"location": "Dublin",
"price": 1150,
"rooms": 10,
"rating": 2.4,
"type": "mansion"

3.2.4 Cloud SQL instance creation

3.2.5 Cloud SQL instance creation (Option #2)

Option #2: Cloud Shell

3.2.6 Cloud SQL importing data

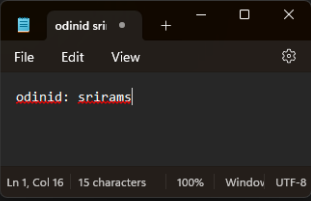
3.2.7 Cloud SQL from Cloud Shell

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

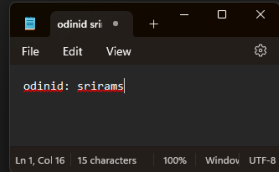
```
mysql> select * from Accommodation where type IN ('house', 'mansion');
```

id	title	location	price	rooms	rating	type
10	Sizable Calm Country House	Auckland	650	9	4.9	mansion
12	Beautiful Peaceful Villa	Seattle	90	2	2.1	house
16	Large Calm House	Melbourne	45	3	4.1	house
17	Large Calm Sately House	NYC	850	9	1.2	mansion
20	Big Private Hall	Buenos Aires	650	12	1.2	mansion
22	Pleasant Peaceful House	Auckland	50	5	3.5	house
28	Beautiful Calm Villa	Tokyo	110	2	4.2	house
29	Big Quiet Manor	San Francisco	650	12	4.3	mansion
3	Agreeable Calm Place	London	65	4	4.8	house
30	Large Peaceful House	Berlin	110	5	2.3	house
32	Immense Private Hall	Seattle	850	12	1	mansion
33	Pleasant Calm Place	Tokyo	30	2	4.8	house
38	Big Private House	San Francisco	70	4	2.9	house
39	Beautiful Calm Villa	Vancouver	50	3	3.5	house
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
49	Big Private Villa	NYC	90	2	4.8	house
56	Sizable Private Residence	London	800	11	3.5	mansion
57	Immense Quiet Residence	Auckland	800	11	3.5	mansion
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
66	Beautiful Private Villa	London	80	2	2.4	house
70	Great Calm Sately House	Paris	1050	10	2.2	mansion
72	Beautiful Calm Place	Paris	80	4	2.1	house
75	Large Private Place	Berlin	50	4	3.6	house
76	Pleasant Calm Villa	Berlin	30	2	2.4	house
77	Great Private Country House	Dublin	1150	10	2.4	mansion
79	Large Private Manor	Vancouver	1050	10	4.8	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
90	Big Quiet House	Seattle	35	5	3.2	house
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	3.0	mansion
99	Pleasant Quiet Place	NYC	80	4	3.2	house

```
38 rows in set (0.01 sec)
```



```
mysql> select * from Accommodation where price between 1 and 1500
> ;
+-----+-----+-----+-----+-----+-----+-----+
| id | title | location | price | rooms | rating | type |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | Comfy Quiet Chalet | Vancouver | 50 | 3 | 3.1 | cottage |
| 10 | Sizable Calm Country House | Auckland | 650 | 9 | 4.9 | mansion |
| 11 | Homy Quiet Shanty | Melbourne | 50 | 1 | 2.8 | cottage |
| 12 | Beautiful Peaceful Villa | Seattle | 90 | 2 | 2.1 | house |
| 14 | Colossal Peaceful Palace | Melbourne | 1200 | 21 | 1.5 | castle |
| 15 | Vast Private Fort | London | 1300 | 18 | 2.6 | castle |
| 16 | Large Calm House | Melbourne | 45 | 3 | 4.1 | house |
| 17 | Large Calm Sately House | NYC | 850 | 9 | 1.2 | mansion |
| 18 | Big Peaceful Hut | Melbourne | 60 | 2 | 2.4 | cottage |
| 2 | Cozy Calm Hut | London | 65 | 2 | 4.1 | cottage |
| 20 | Big Private Hall | Buenos Aires | 650 | 12 | 1.2 | mansion |
| 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 |
| 26 | Enormous Peaceful Palace | Paris | 1300 | 18 | 1.1 | castle |
| 27 | Enormous Calm Castle | Berlin | 1500 | 12 | 2.3 | castle |
| 28 | Beautiful Calm Villa | Tokyo | 110 | 2 | 4.2 | house |
| 29 | Big Quiet Manor | San Francisco | 650 | 12 | 4.3 | mansion |
| 3 | Agreeable Calm Place | London | 65 | 4 | 4.8 | house |
| 30 | Large Peaceful House | Berlin | 110 | 5 | 2.3 | house |
| 31 | Colossal Private Castle | Buenos Aires | 1400 | 15 | 3.3 | castle |
| 32 | Immense Private Hall | Seattle | 850 | 12 | 1 | mansion |
| 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 |
| 41 | Big Calm Manor | Seattle | 800 | 11 | 2.7 | mansion |
| 42 | Large Calm Residence | London | 900 | 12 | 2.4 | mansion |
| 43 | Nice Private Hut | Melbourne | 60 | 3 | 2.8 | cottage |
| 45 | Vast Quiet Chateau | Tokyo | 1100 | 19 | 2.3 | castle |
| 47 | Sizable Calm Sately House | Seattle | 900 | 10 | 1.5 | mansion |
| 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 |
| 56 | Sizable Private Residence | London | 800 | 11 | 3.5 | mansion |
| 57 | Immense Quiet Residence | Auckland | 800 | 11 | 3.5 | mansion |
| 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 |
| 70 | Great Calm Sately House | Paris | 1050 | 10 | 2.2 | mansion |
| 71 | Cozy Calm Hut | San Francisco | 55 | 2 | 3.8 | cottage |
```



3.2.8 Cloud SQL cleanup

Option #1: Web UI

Option #2: Cloud Shell

3.2.9 AWS RDS

3.2.10 Cloud Shell network address

3.2.11 RDS security group creation

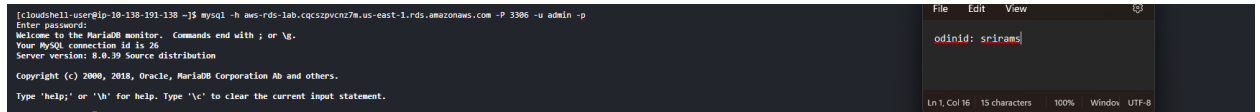
3.2.12 RDS instance creation (Option #1)

3.2.13 RDS instance creation (Option #2)

3.2.14 View instance

3.2.15 RDS test instance

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



```
[cloudshell-user@ip-10-136-191-138 ~]$ mysql -h aws-rds-lab.cqcszpcvz7u.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: 8.0.30 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>
```

3.2.16 RDS cleanup

3.3: sqlite3 Guestbook

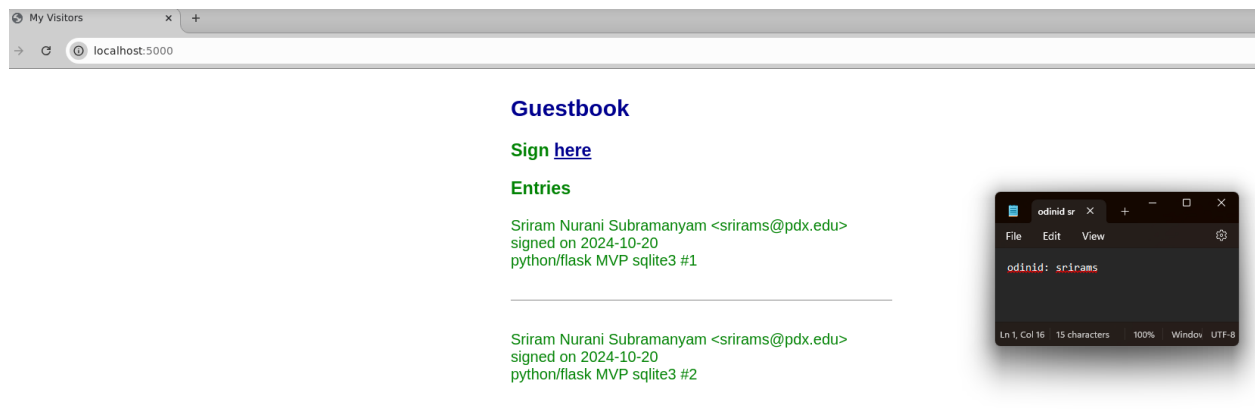
3.3.1 sqlite3

3.3.2 gbmodel package

3.3.3 Presenter architecture

3.3.4 Running the code

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



3.3.5 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

```
srirams@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> █
```

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

```
srirams@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> █
```

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

```
srirams@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;
Sriram Nurani Subramanyam|srirams@pdx.edu|2024-10-20|python/flask MVP sqlite3 #1
Sriram Nurani Subramanyam|srirams@pdx.edu|2024-10-20|python/flask MVP sqlite3 #2
sqlite> █
```

