

Week#3 Labs

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03.1: Python Flask Guestbook

1. Python Flask

No screenshots are required

2. Model

No screenshots are required

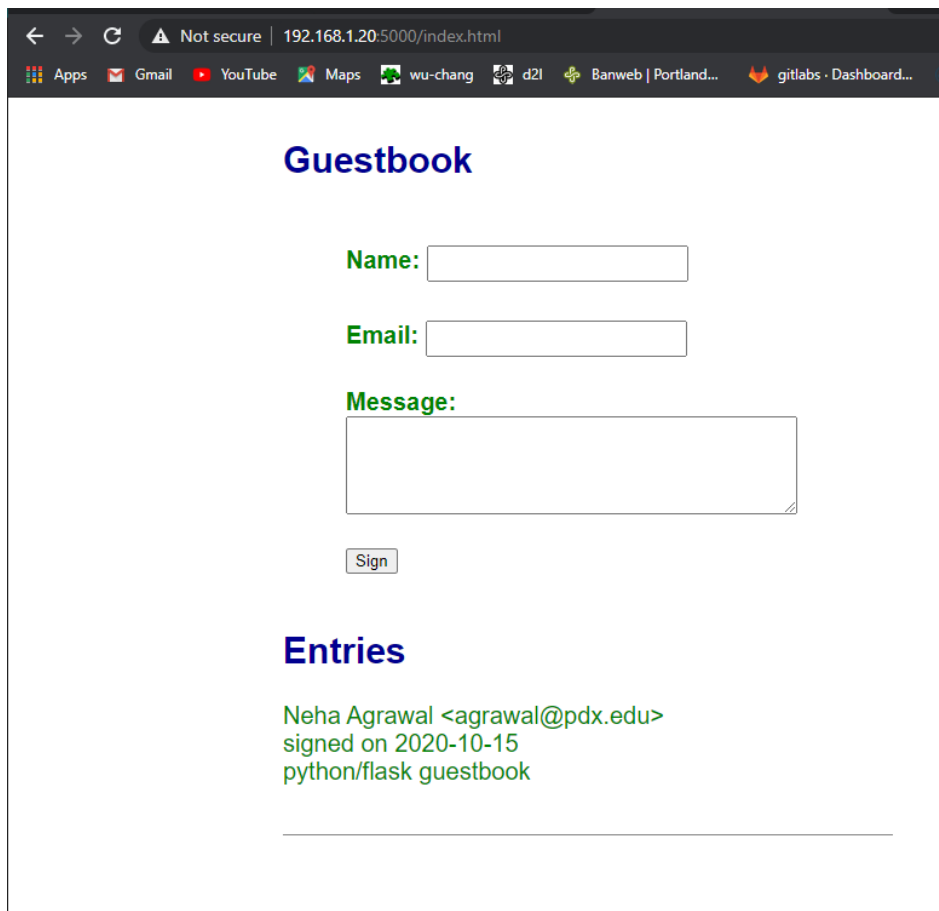
3. Controller

No screenshots are required

4. View

No screenshots are required

5. Running the code



← → ↻ ⚠ Not secure | 192.168.1.20:5000/index.html

Apps Gmail YouTube Maps wu-chang d2l Banweb | Portland... gitlabs · Dashboard...

Guestbook

Name:

Email:

Message:

Sign

Entries

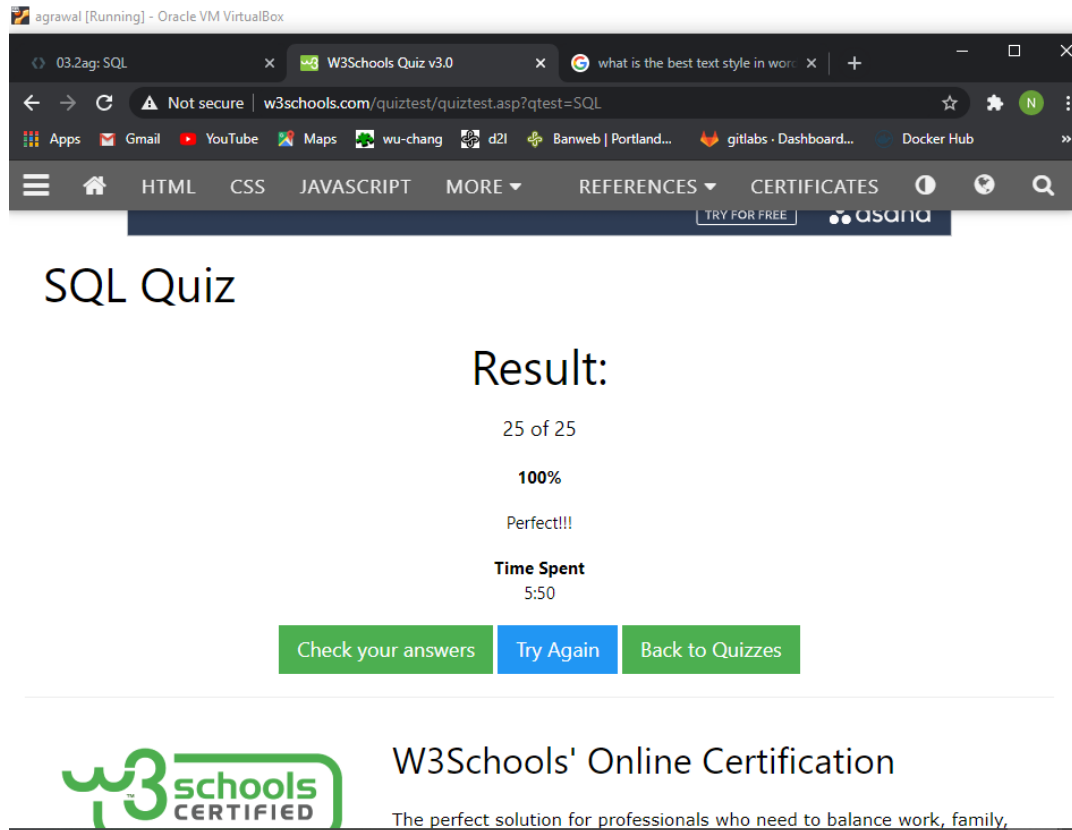
Neha Agrawal <agrawal@pdx.edu>
signed on 2020-10-15
python/flask guestbook

03.2ag: SQL

1. SQL, Cloud SQL, RDS

No screenshots are required

2. SQL quiz



3. GCP Cloud SQL

Examine the data definition language (DDL) commands in `cloudsql/table_creation.sql` that specifies the schema and answer the following questions:

- What are the names of the tables that are created?

Three tables have been created –

1. *Recommendation*
2. *Rating*
3. *Accommodation*

- What are the primary keys of each table?

Table name	Primary keys
Recommendation	(userId, accoId)
Rating	(accoId, userId)
Accommodation	(ID)

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

The accommodation holds id, title, location, price, rooms, rating, type.

Examine the data that fills in these tables at `cloudsql/accommodation.csv` and answer the following questions.

- **Find the accommodations in Dublin.**

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

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

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

Attributes	Values
Pleasant quiet place with type "house", 5 rooms, rating = 4.3 and id =6	Price = 35
Great Private Country House, type = Mansion, 10 rooms, 2.4 rating and id = 77	Price = 1150

4. Cloud SQL instance creation

No screenshots are required

5. Cloud SQL network access

No screenshots are required

6. Cloud SQL importing data

No screenshots are required

7. Cloud SQL from Cloud Shell

Run queries for accommodations at two price levels of your choice and two types of your choice. Show screenshots of the query output for your lab notebook.

1. Select * from Accommodation where price < 35;

```
CLOUD SHELL
Terminal (cloud-f20-neha-agrawal-agrawal) x + v

mysql> select * from Accommodation where price < 35;
+-----+-----+-----+-----+-----+-----+-----+
| id | title | location | price | rooms | rating | type |
+-----+-----+-----+-----+-----+-----+-----+
| 33 | Pleasant Calm Place | Tokyo | 30 | 2 | 4.8 | house |
| 76 | Pleasant Calm Villa | Berlin | 30 | 2 | 2.4 | house |
+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

2. Select * from Accommodation where price > 4000;

```
CLOUD SHELL
Terminal (cloud-f20-neha-agrawal-agrawal) x + v

mysql> select * from Accommodation where price > 4000;
+-----+-----+-----+-----+-----+-----+-----+
| id | title | location | price | rooms | rating | type |
+-----+-----+-----+-----+-----+-----+-----+
| 19 | Giant Quiet Castle | Paris | 4500 | 18 | 1.6 | castle |
| 34 | Vast Private Fort | NYC | 4400 | 21 | 1.7 | castle |
| 48 | Big Calm Fort | Vancouver | 4500 | 22 | 4 | castle |
| 54 | Enormous Quiet Chateau | Melbourne | 4400 | 20 | 1.7 | castle |
| 88 | Colossal Quiet Palace | Seattle | 4100 | 16 | 3.6 | castle |
+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.01 sec)
```

3. Select * from Accommodation where type = 'house';

```
CLOUD SHELL
Terminal (cloud-f20-neha-agrawal-agrawal) x + v

mysql> select * from Accommodation where type = 'house';
+-----+-----+-----+-----+-----+-----+-----+
| id | title | location | price | rooms | rating | type |
+-----+-----+-----+-----+-----+-----+-----+
| 12 | Beautiful Peaceful Villa | Seattle | 90 | 2 | 2.1 | house |
| 16 | Large Calm House | Melbourne | 45 | 3 | 4.1 | house |
| 22 | Pleasant Peaceful House | Auckland | 50 | 5 | 3.5 | house |
| 28 | Beautiful Calm Villa | Tokyo | 110 | 2 | 4.2 | house |
| 3 | Agreeable 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 |
| 38 | Big Private House | San Francisco | 70 | 4 | 2.9 | house |
| 39 | Beautiful Calm Villa | Vancouver | 50 | 3 | 3.5 | house |
| 49 | Big Private Villa | NYC | 90 | 2 | 4.8 | house |
| 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 |
| 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 |
| 86 | Large Quiet House | London | 100 | 4 | 4 | house |
| 90 | Big Quiet House | Seattle | 35 | 5 | 3.2 | house |
| 99 | Pleasant Quiet Place | NYC | 80 | 4 | 3.2 | house |
+-----+-----+-----+-----+-----+-----+-----+
20 rows in set (0.00 sec)
```

4. Select * from Accommodation where type = 'mansion';

```
CLOUD SHELL
Terminal (cloud-f20-neha-agrawal-agrawal) x + v

mysql> select * from Accommodation where type = 'mansion';
+-----+-----+-----+-----+-----+-----+-----+
| 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 |
| 29 | Big Quiet Manor | San Francisco | 650 | 12 | 4.3 | mansion |
| 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 |
| 70 | Great Calm Sately House | Paris | 1050 | 10 | 2.2 | mansion |
| 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 |
| 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 (0.01 sec)
```

8. Cloud SQL cleanup

No screenshots are required

9. AWS RDS

No screenshots are required

10. RDS security group

No screenshots are required

11. RDS instance creation

No screenshots are required

12. RDS database configuration

No screenshots are required

13. RDS network access

No screenshots are required

14. RDS test instance

Show a screenshot of the successful connection similar to below:

```
agrawal@ada:~$ mysql -h aws-rds-lab.c8k9bsyadaas.us-east-1.rds.amazonaws.com -P 3306 -u admin -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 17
Server version: 8.0.20 Source distribution

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affiliates. Other names may be trademarks of their respective
owners.

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

mysql> █
```

15. RDS cleanup

No screenshots are required

03.3: SQLite3 Guestbook

1. sqlite3

No screenshots are required

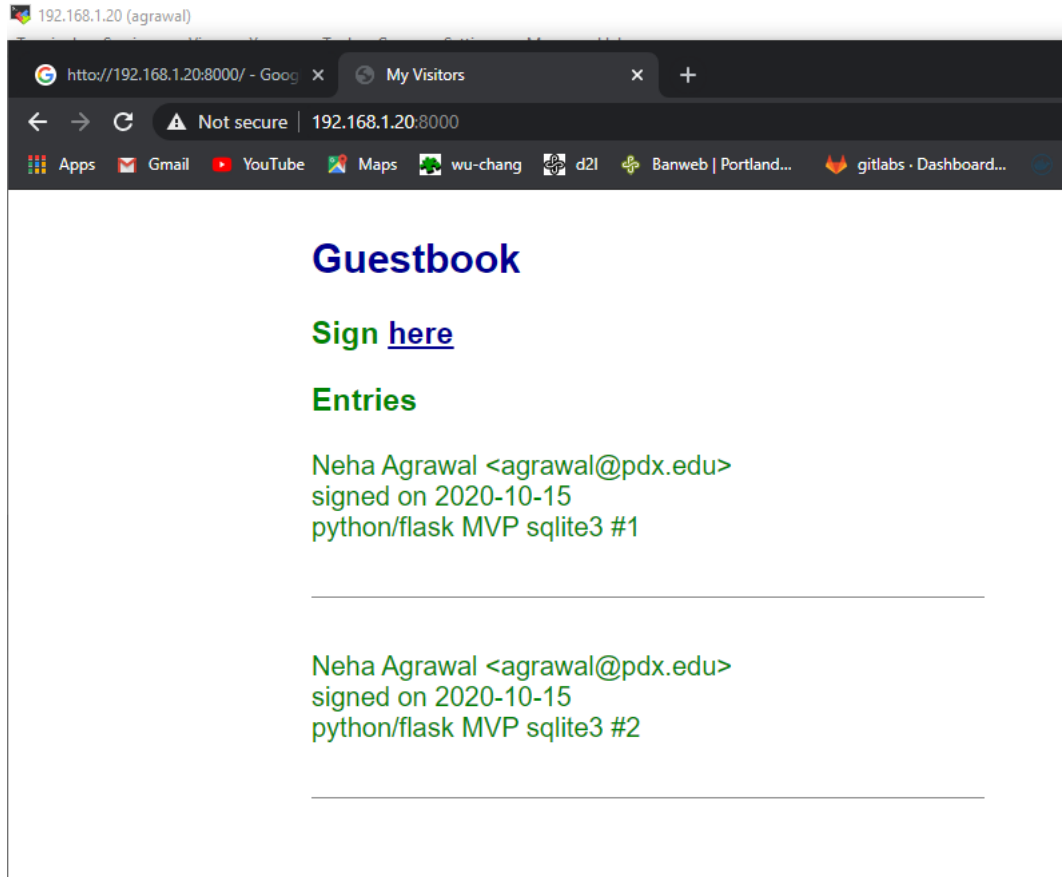
2. gbmodel package

No screenshots are required

3. Presenter architecture

No screenshots are required

4. Running the code



5. sqlite3 database

```
agrawal@agrawal-VirtualBox:~/cs430-src/02_mvp_modules_sqlite3$ sqlite3 entries.db
SQLite version 3.31.1 2020-01-27 19:55:54
Enter ".help" for usage hints.
sqlite> .tables
guestbook
sqlite> .schema guestbook
CREATE TABLE guestbook (name text, email text, signed_on date, message);
sqlite> select * from guestbook;
Neha Agrawal|agrawal@pdx.edu|2020-10-15|python/flask MVP sqlite3 #1
Neha Agrawal|agrawal@pdx.edu|2020-10-15|python/flask MVP sqlite3 #2
sqlite> █
```