

# Lab Notebook 3 — marvleon

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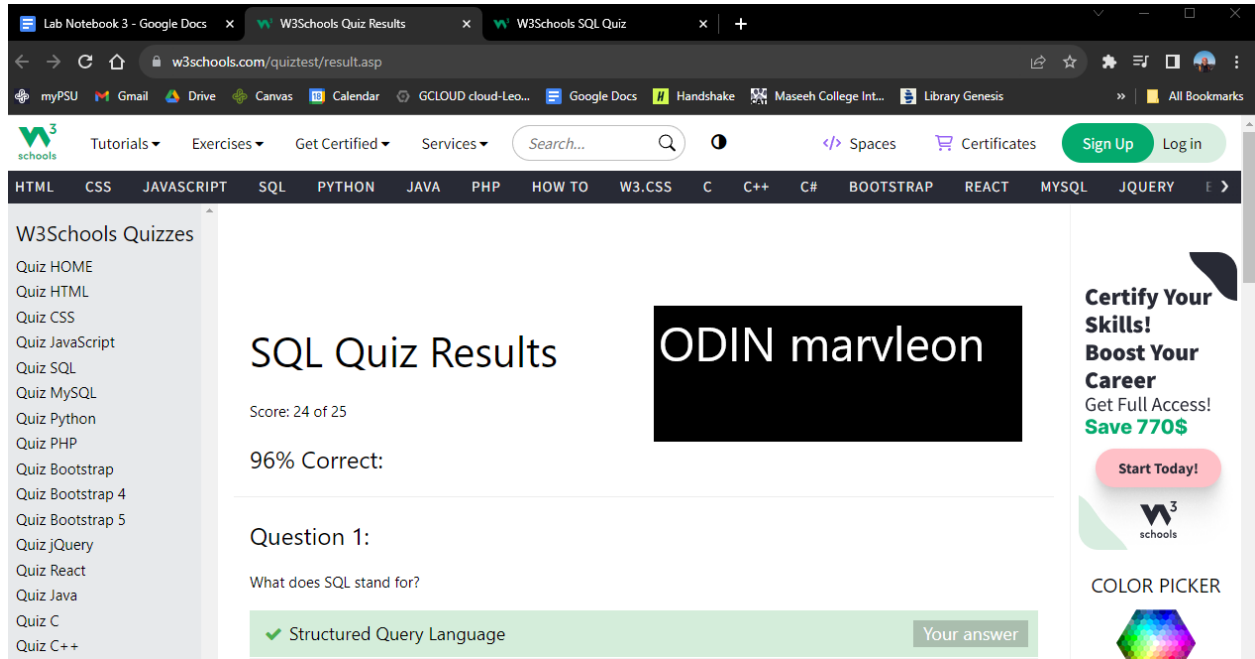
# Python Flask

The screenshot displays a remote desktop session titled "34.83.63.9 - Remote Desktop Connection". On the left, a web browser window titled "My Visitors" shows a "Guestbook" form with fields for "Name:", "Email:", and "Message:", along with a "Sign" button. Below the form, an "Entries" section lists a message from "Marvin Leon <marvleon@pdx.edu>" signed on "2023-10-16" with the subject "python/flask guestbook". On the right, a terminal window titled "marvleon@course-vm: ~/code/cs430-src/01\_mvc\_pylist" shows the process of installing dependencies (blinker, Werkzeug, MarkupSafe) and running the Flask application. The terminal output includes a warning about using a development server and a list of HTTP requests and responses.

```
Collecting blinker>=1.6.2
  Downloading blinker-1.6.3-py3-none-any.whl (13 kB)
Collecting Werkzeug>=3.0.0
  Downloading werkzeug-3.0.0-py3-none-any.whl (226 kB)
Collecting MarkupSafe>=2.0
  Downloading MarkupSafe-2.1.3-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (25 kB)
Installing collected packages: MarkupSafe, itsdangerous, click, blinker, Werkzeug, Jinja2, flask
Successfully installed Jinja2-3.1.2 MarkupSafe-2.1.3 Werkzeug-3.0.0 blinker-1.6.3 click-8.1.7 flask-3.0.0 itsdangerous-2.1.2
(env) marvleon@course-vm:~/code/cs430-src/01_mvc_pylist$ python app.py
* Serving Flask app 'app'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://10.138.0.2:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 630-719-552
127.0.0.1 - - [16/Oct/2023 23:45:19] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [16/Oct/2023 23:45:19] "GET /static/style.css HTTP/1.1" 200 -
127.0.0.1 - - [16/Oct/2023 23:45:19] "GET /favicon.ico HTTP/1.1" 404 -
127.0.0.1 - - [16/Oct/2023 23:46:21] "POST /sign HTTP/1.1" 302 -
127.0.0.1 - - [16/Oct/2023 23:46:21] "GET /index.html HTTP/1.1" 200 -
127.0.0.1 - - [16/Oct/2023 23:46:21] "GET /static/style.css HTTP/1.1" 304 -
```

# SQL, Cloud, RDS

## SQL Quiz



## GCP Cloud SQL

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

Accommodation, Rating, Recommendation

***What are the primary keys of each table?***

Accommodation: ID

Rating: accould, userId

Recommendation: userId, accold

***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**

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

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

## Cloud SQL from Cloud Shell

```
mysql> Select * from Accommodation where price between 1000 AND 1500 AND type = 'castle';
```

id	title	location	price	rooms	rating	type
14	Colossal Peaceful Palace	Melbourne	1200	21	1.5	castle
15	Vast Private Fort	London	1300	18	2.6	castle
26	Enormous Peaceful Palace	Paris	1300	18	1.1	castle
27	Enormous Calm Castle	Berlin	1500	12	2.3	castle
31	Colossal Private Castle	Buenos Aires	1400	15	3.3	castle
45	Vast Quiet Chateau	Tokyo	1100	19	2.3	castle
9	Giant Peaceful Palace	London	1500	20	3.5	castle

```
7 rows in set (0.00 sec)
```

```
mysql> Select * from Accommodation where price between 50 AND 75 AND type = 'house';
```

id	title	location	price	rooms	rating	type
22	Pleasant Peaceful House	Auckland	50	5	3.5	house
3	Agreeable Calm Place	London	65	4	4.8	house
38	Big Private House	San Francisco	70	4	2.9	house
39	Beautiful Calm Villa	Vancouver	50	3	3.5	house
59	Large Peaceful Place	Tokyo	55	5	1.2	house
61	Large Calm Place	NYC	60	2	1.3	house
75	Large Private Place	Berlin	50	4	3.6	house

```
7 rows in set (0.00 sec)
```

```
mysql> 
```

ODIN marvleon

## RDS test instance

Certificate update 00/e5b6b69d12etz/

AWS CloudShell Actions

us-east-1

```
[cloudshell-user@ip-10-6-187-159 ~]$ curl http://ipecho.net/plain ; echo
35.173.50.72
[cloudshell-user@ip-10-6-187-159 ~]$ mysql -h aws-rds-lab.cgs3dztmgex.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 18
Server version: 8.0.33 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 marvleon

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# sqlite3

## Running the code

```
marvleon@course-vm: ~/code/cs430-src/02_mvp_modules_sqlite3
File Edit View Search Terminal Help
(env) marvleon@course-vm:~/code/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
...> ;
Marvin Leon|marvleon@pdx.edu|2023-10-17|python/flask MVP sqlite3 #2
sqlite> █
```

## sqlite3 database

