

Lab 3.1

Here is the screenshot of the Python guestbook page that includes my PSU e-mail address in it and the message "python/flask guestbook".

The screenshot shows a web browser window titled "My Visitors" with the URL "localhost:5000/index.html". The page displays a "Guestbook" form with fields for Name, Email, and Message, followed by an "Entries" section showing a single entry from "Emmanuel Arthur <emmanart@pdx.edu>" dated "signed on 2025-10-15" with the message "python/flask guestbook".

Guestbook

Name:

Email:

Message:

Sign

Entries

Emmanuel Arthur <emmanart@pdx.edu>
signed on 2025-10-15
python/flask guestbook

Lab 3.2

- Take the quiz and include a screenshot with your OdinID on it of the "Check your answers" page at the end of the quiz.

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SQL Quiz

Result:

22 of 25
88%
You can be proud of yourself!

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SQL Quiz Results

Score: 22 of 25

88% Correct:

Question 1:

What does SQL stand for?

Structured Query Language

Your answer

Structured Question Language

Strong Question Language

Question 2:

- What are the names of the tables that are created? The names of the tables are Recommendation, Rating and Accommodation
- What are the primary keys of each table?

Accommodation: ID, Recommendation: accId and userId, Rating: accId and userId

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

Id, title, location, price, rooms, rating, type

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

Id	Title	locations	Price	rooms	rating	type
6	Pleasant Quiet Place	Dublin	35	5	4.3	house
77	Great Private Country House	Dublin	1150	10	2.4	mansion

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

Two price ranges

```
Database changed
mysql> select * from Accommodation where price > 2000
-> ;
+----+-----+-----+-----+-----+-----+-----+
| id | title           | location      | price | rooms | rating | type   |
+----+-----+-----+-----+-----+-----+-----+
| 13 | Enormous Peaceful Fortress | Melbourne    | 3300 | 12   | 2.3   | castle |
| 19 | Giant Quiet Castle     | Paris        | 4500 | 18   | 1.6   | castle |
| 34 | Vast Private Fort      | NYC          | 4400 | 21   | 1.7   | castle |
| 35 | Colossal Quiet Chateau | NYC          | 2300 | 14   | 4.6   | castle |
| 4  | Colossal Quiet Chateau | Paris        | 3400 | 16   | 2.7   | castle |
| 40 | Colossal Private Castle | Seattle      | 2900 | 24   | 1.5   | castle |
| 44 | Big Peaceful Chateau   | Melbourne    | 3400 | 21   | 3.2   | castle |
| 48 | Big Calm Fort          | Vancouver    | 4500 | 22   | 4     | castle |
| 50 | Enormous Calm Fort    | Seattle      | 2300 | 22   | 4.5   | castle |
| 54 | Enormous Quiet Chateau | Melbourne    | 4400 | 20   | 1.7   | castle |
| 63 | Big Private Chateau    | Buenos Aires | 2400 | 23   | 4.5   | castle |
| 64 | Enormous Peaceful Fort | Berlin       | 3500 | 13   | 1.8   | castle |
| 67 | Giant Calm Chateau    | Vancouver    | 2300 | 13   | 3.2   | castle |
| 7  | Vast Peaceful Fortress | Seattle      | 3200 | 24   | 1.9   | castle |
| 74 | Giant Calm Fort        | Melbourne    | 2400 | 12   | 2.3   | castle |
| 78 | Giant Private Fortress  | Tokyo        | 2100 | 17   | 2.5   | castle |
| 8  | Giant Quiet Fortress   | San Francisco| 3400 | 12   | 4.1   | castle |
| 88 | Colossal Quiet Palace  | Seattle      | 4100 | 16   | 3.6   | castle |
| 94 | Giant Peaceful Castle  | Auckland    | 2900 | 25   | 3.3   | castle |
+----+-----+-----+-----+-----+-----+-----+
19 rows in set (0.00 sec)
```

```

mysql> select * from Accommodation where price > 100 and price < 1000
-> ;
+----+-----+-----+-----+-----+-----+-----+
| 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 |
| 28 | Beautiful Calm Villa | Tokyo | 110 | 2 | 4.2 | house |
| 29 | Big Quiet Manor | San Francisco | 650 | 12 | 4.3 | mansion |
| 30 | Large Peaceful House | Berlin | 110 | 5 | 2.3 | house |
| 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 |
| 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 |
+----+-----+-----+-----+-----+-----+-----+
17 rows in set (0.00 sec)

```

Two types

```

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)

```

```

mysql> select * from Accommodation where type = 'castle'
-> ;
+----+-----+-----+-----+-----+-----+-----+
| id | title           | location | price | rooms | rating | type   |
+----+-----+-----+-----+-----+-----+-----+
| 13 | Enormous Peaceful Fortress | Melbourne | 3300 | 12 | 2.3 | castle |
| 14 | Colossal Peaceful Palace | Melbourne | 1200 | 21 | 1.5 | castle |
| 15 | Vast Private Fort      | London    | 1300 | 18 | 2.6 | castle |
| 19 | Giant Quiet Castle     | Paris     | 4500 | 18 | 1.6 | 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 |
| 34 | Vast Private Fort      | NYC      | 4400 | 21 | 1.7 | castle |
| 35 | Colossal Quiet Chateau | NYC      | 2300 | 14 | 4.6 | castle |
| 37 | Enormous Quiet Chateau | Berlin    | 2000 | 20 | 2.7 | castle |
| 4  | Colossal Quiet Chateau | Paris     | 3400 | 16 | 2.7 | castle |
| 40 | Colossal Private Castle | Seattle   | 2900 | 24 | 1.5 | castle |
| 44 | Big Peaceful Chateau   | Melbourne | 3400 | 21 | 3.2 | castle |
| 45 | Vast Quiet Chateau    | Tokyo     | 1100 | 19 | 2.3 | castle |
| 46 | Colossal Private Castle | San Francisco | 1900 | 15 | 3.7 | castle |
| 48 | Big Calm Fort          | Vancouver | 4500 | 22 | 4 | castle |
| 50 | Enormous Calm Fort    | Seattle   | 2300 | 22 | 4.5 | castle |
| 52 | Giant Private Palace  | Melbourne | 1800 | 23 | 2.7 | castle |
| 54 | Enormous Quiet Chateau | Melbourne | 4400 | 20 | 1.7 | castle |
| 60 | Vast Peaceful Palace  | Seattle   | 1600 | 19 | 1.1 | castle |
| 63 | Big Private Chateau   | Buenos Aires | 2400 | 23 | 4.5 | castle |
| 64 | Enormous Peaceful Fort | Berlin    | 3500 | 13 | 1.8 | castle |
| 67 | Giant Calm Chateau   | Vancouver | 2300 | 13 | 3.2 | castle |
| 68 | Giant Peaceful Fort   | Paris     | 1800 | 21 | 1.1 | castle |
| 7  | Vast Peaceful Fortress | Seattle   | 3200 | 24 | 1.9 | castle |
| 74 | Giant Calm Fort       | Melbourne | 2400 | 12 | 2.3 | castle |
| 78 | Giant Private Fortress | Tokyo     | 2100 | 17 | 2.5 | castle |
| 8  | Giant Quiet Fortress  | San Francisco | 3400 | 12 | 4.1 | castle |
| 88 | Colossal Quiet Palace | Seattle   | 4100 | 16 | 3.6 | castle |
| 9  | Giant Peaceful Palace | London    | 1500 | 20 | 3.5 | castle |
| 93 | Giant Quiet Chateau  | Vancouver | 1800 | 16 | 3.9 | castle |
| 94 | Giant Peaceful Castle | Auckland | 2900 | 25 | 3.3 | castle |
| 98 | Big Private Castle   | Paris     | 2000 | 23 | 4.6 | castle |
+----+-----+-----+-----+-----+-----+
33 rows in set (0.01 sec)

```

- Take a screenshot showing no instances are running

Cloud SQL

Cloud SQL offers a fully-managed database service for MySQL, PostgreSQL, and SQL Server, reducing your overall cost of operations and freeing up teams to focus on innovation.

[Create instance](#) [Migrate database](#)

Get started

[MySQL](#) [PostgreSQL](#) [SQL Server](#)

Sandbox
Minimally provisioned, cost-effective instances. Use to learn about and test Cloud SQL.

Cloud SQL Enterprise edition
MySQL 8.0
2 vCPUs, 8 GB RAM, 10 GB SSD storage
Single-zone
Up to 7 days PITR

Development
Performant but not highly available, while reducing cost by provisioning less compute.

Cloud SQL Enterprise Plus edition
MySQL 8.0
4 vCPUs, 32 GB RAM, 250 GB SSD storage
Single-zone
Up to 35 days PITR
Data cache for enhancing read throughput

Production
Optimized for the most critical workloads. Highly available, performant, and durable.

Cloud SQL Enterprise Plus edition
MySQL 8.0
8 vCPUs, 64 GB RAM, 250 GB SSD storage
Multi-zone (99.99% availability SLA)
Up to 35 days PITR
Data cache for enhancing read throughput

[All Cloud SQL documentation](#)

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

```

aws [ ] Search [Alt+S] Account ID: 8706-6125-4437 emmanart
Aurora and RDS > Databases > aws-rds-lab
Aurora and RDS | Proxy identifier | Status | Engine family
No proxies
You don't have any proxies.

CloudShell Actions ▾
us-east-2 + 
$ aws rds db-proxy create-security-group-rules >
> --group-id "$SGID" \
> --protocol tcp \
> --port 3306 \
> --cidr "$VPCP"
{
  "Return": true,
  "SecurityGroupRules": [
    {
      "SecurityGroupRuleId": "sgr-0be8d6c788e273fe",
      "GroupId": "sg-06c8ff6f107e0334",
      "GroupOwnerId": "870661254437",
      "IsEgress": false,
      "IpProtocol": "tcp",
    }
  ]
$ mysql -h aws-rds-lab.chcs2q26uya.us-east-2.rds.amazonaws.com \
          -p3306 -u admin -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MySQL connection id is 30
Server version: 8.0.42 Source distribution

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

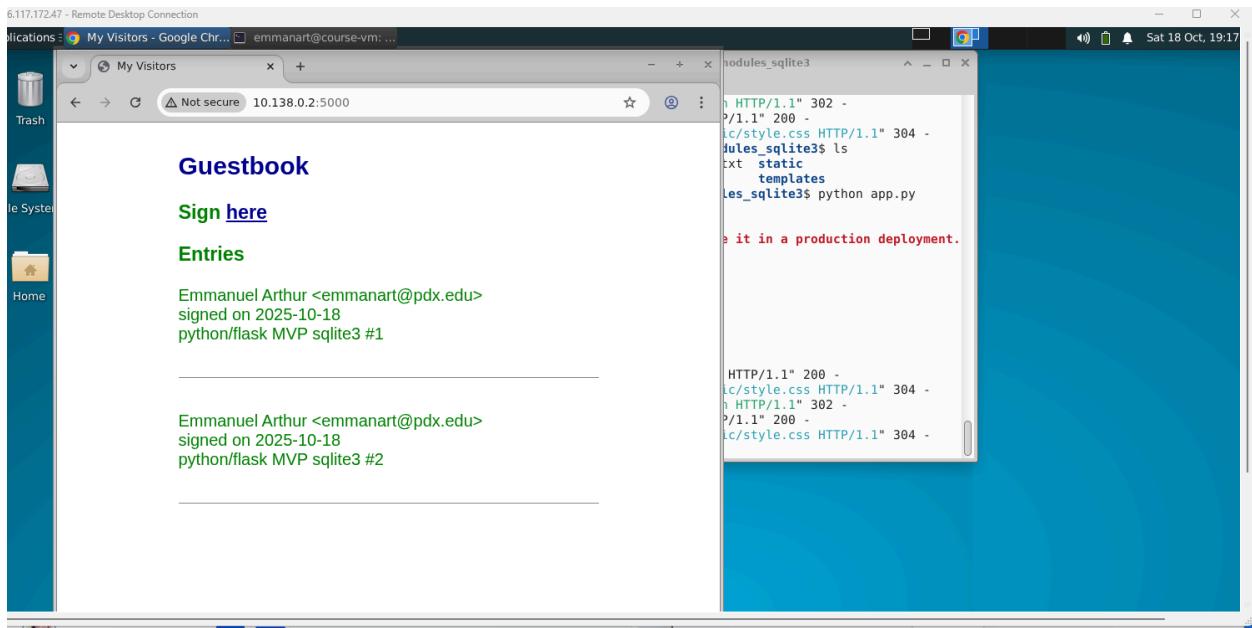
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MySQL [(none)]> 

```

Lab 3.3

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



- List the tables in the database and note the table name
 - Then, output the schema for the table via its name
 - Finally, perform a SQL query to dump out all rows in the table

```
136.117.172.47 - Remote Desktop Connection
Applications : My Visitors - Google Chr... emmanart@course-vm: ...
emmanart@course-vm: ~/cs430-src/02_mvp_modules_sqlite3

File Edit View Search Terminal Help
emmanart@course-vm: ~/cs430-src/02_mvp_modules_sqlite3

Get:2 http://us-west1.gce.archive.ubuntu.com/ubuntu jammy-updates/main amd64 sqlite3 amd64 3.37.2-2ubuntu0.5 [769 kB]
Fetched 1615 kB in 0s (20.8 MB/s).
Selecting previously unselected package libsqlite3-dev:amd64.
(Reading database ... 125925 files and directories currently installed.)
Preparing to unpack .../libsqlite3-dev_3.37.2-2ubuntu0.5_amd64.deb ...
Unpacking libsqlite3-dev:amd64 (3.37.2-2ubuntu0.5) ...
Selecting previously unselected package sqlite3.
Preparing to unpack .../sqlite3_3.37.2-2ubuntu0.5_amd64.deb ...
Unpacking sqlite3 (3.37.2-2ubuntu0.5) ...
Setting up libsqlite3-dev:amd64 (3.37.2-2ubuntu0.5) ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
(emv) emmanart@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
...
(emv) emmanart@course-vm:~/cs430-src/02_mvp_modules_sqlite3$ ^C
(emv) emmanart@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.
```

