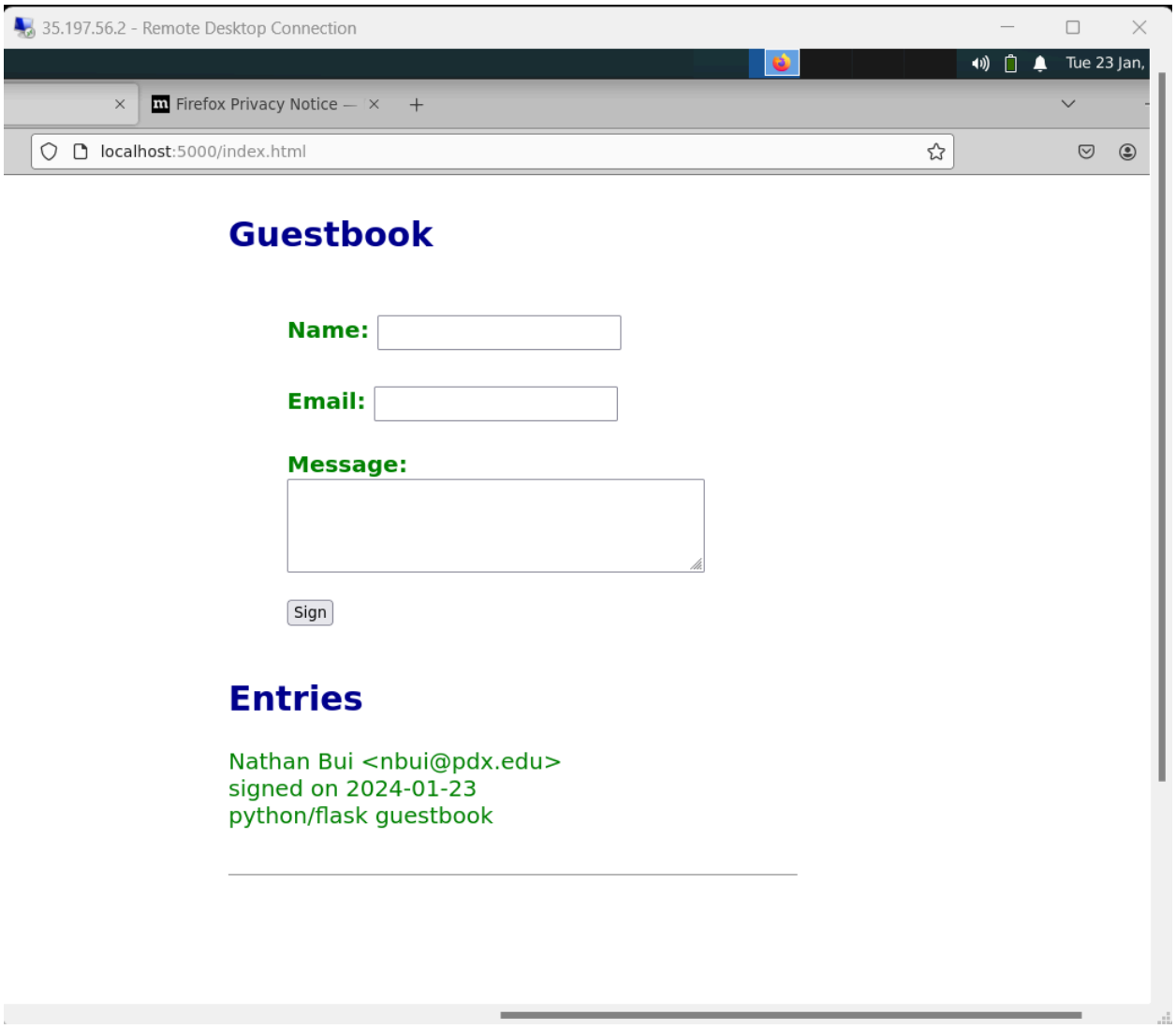
Lab 03.1

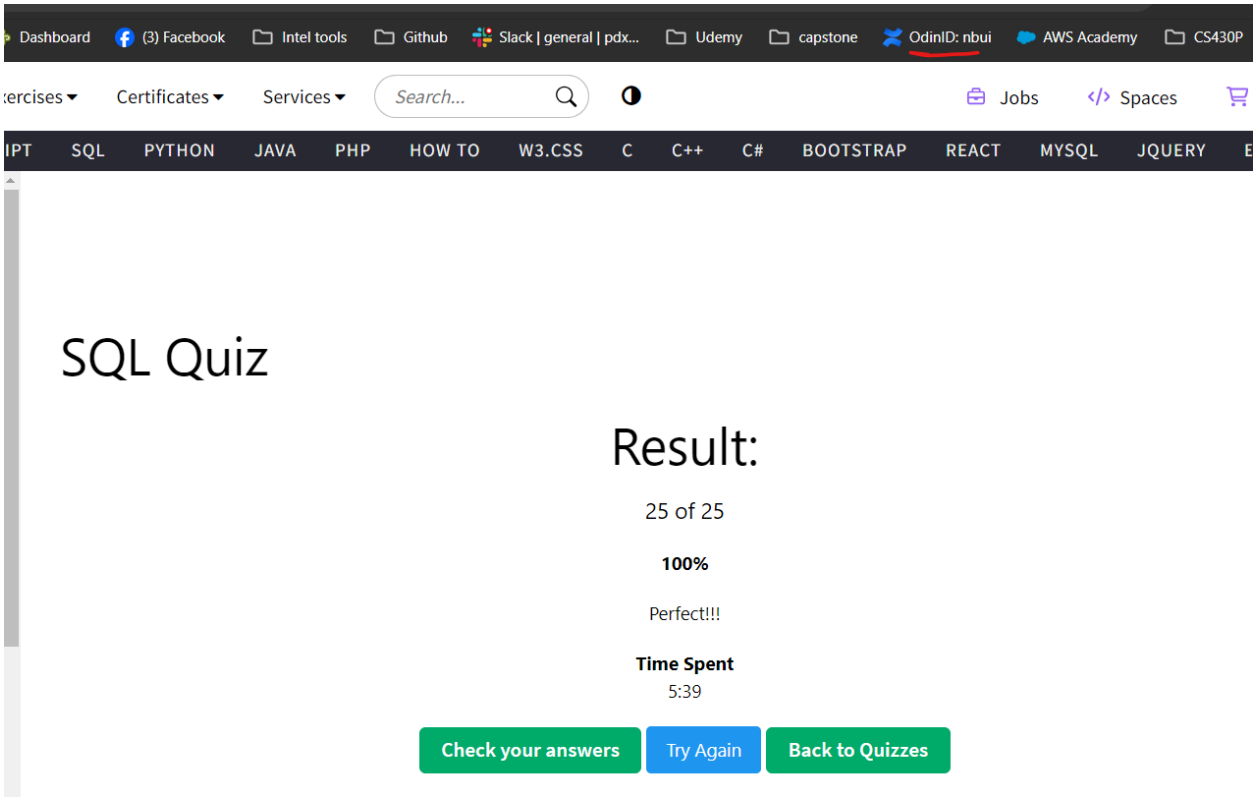
- Add an entry that includes your PSU e-mail address in it and the message "python/flask guestbook". Take a screenshot of the resulting page for your lab notebook.



Lab 03.2

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.



3. GCP Cloud SQL

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

```
nbui@cloudshell:~/training-data-analyst/CPB100/lab3a/cloudsql (cloud-bui-nbui)$ cat table_creation.sql | grep CREATE
CREATE DATABASE IF NOT EXISTS recommendation_spark;
CREATE TABLE IF NOT EXISTS Accommodation
CREATE TABLE  IF NOT EXISTS Rating
CREATE TABLE  IF NOT EXISTS Recommendation
```

- What are the primary keys of each table?

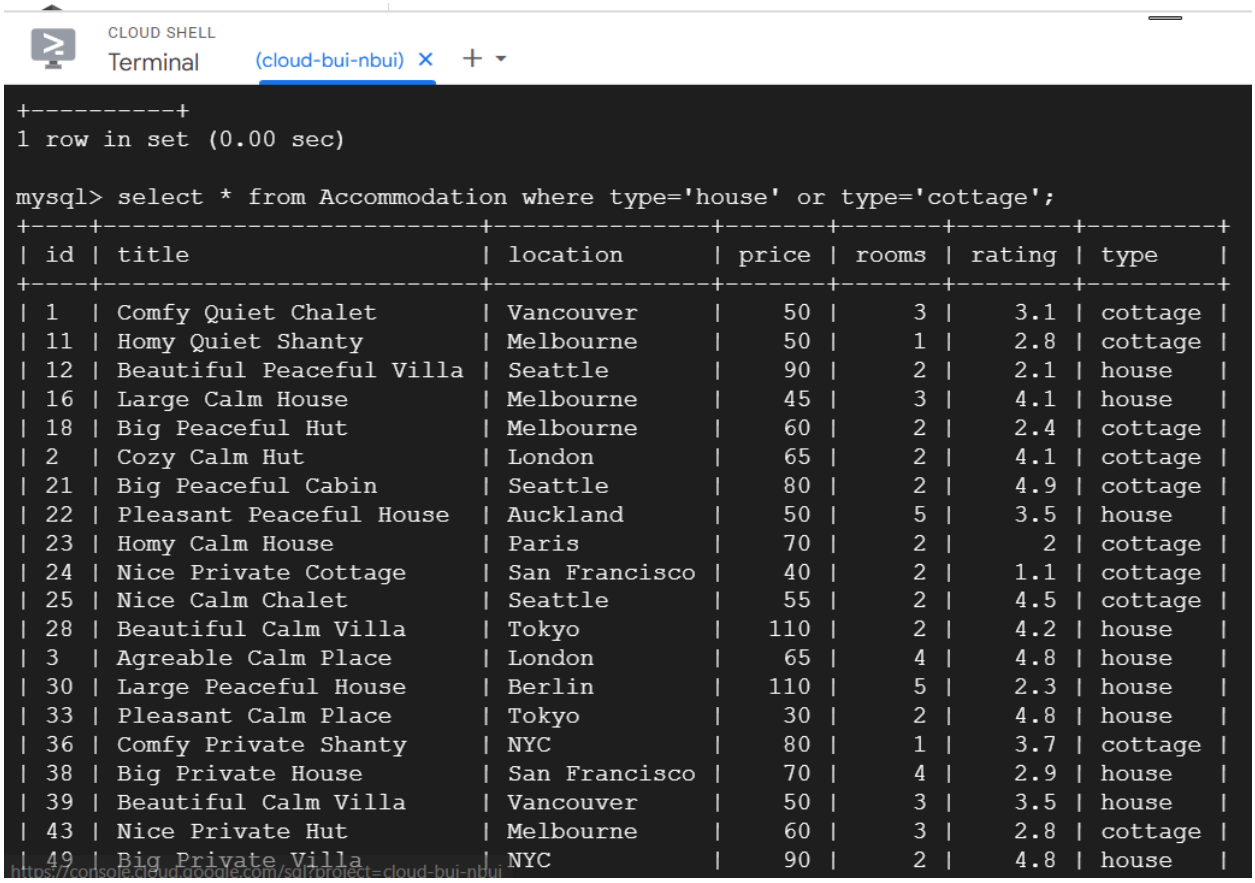
```
nbui@cloudshell:~/training-data-analyst/CPB100/lab3a/cloudsql (cloud-bui-nbui)$ cat table_creation.sql | grep -E 'CREATE| PRIMARY'
CREATE DATABASE IF NOT EXISTS recommendation_spark;
CREATE TABLE IF NOT EXISTS Accommodation
  PRIMARY KEY (ID)
CREATE TABLE  IF NOT EXISTS Rating
  PRIMARY KEY(accoId, userId),
CREATE TABLE  IF NOT EXISTS Recommendation
  PRIMARY KEY(userId, accoId),
nbui@cloudshell:~/training-data-analyst/CPB100/lab3a/cloudsql (cloud-bui-nbui)$
```

- 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.
    - Accommodation 1:
        - id: 6
        - title: Pleasant Quiet Place
        - location: Dublin
        - price: 35
        - rooms: 5
        - rating: 4.3
        - type : house
    - Accommodation 2:
        - id: 77
        - title: Great Private Country House
        - location: Dublin
        - price: 1150
        - rooms: 10
        - rating: 2.4

- type : mansion

7. Cloud SQL from Cloud Shell

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

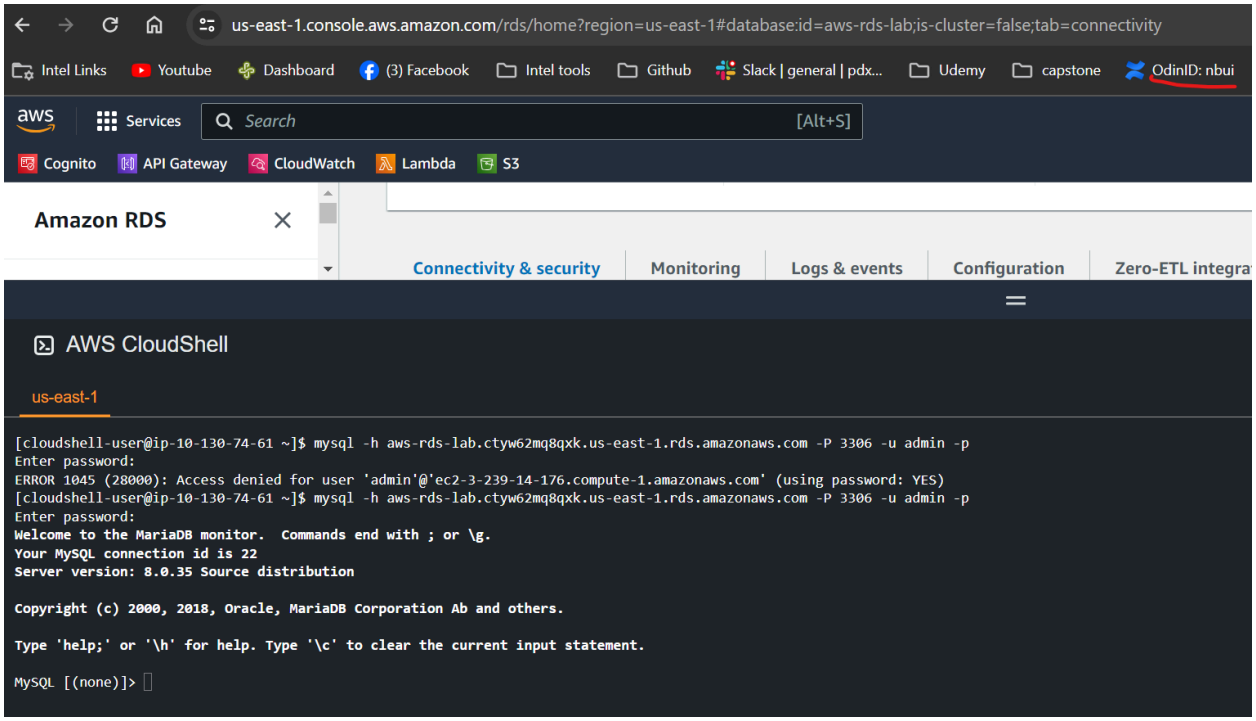



```
+----------+
1 row in set (0.00 sec)

mysql> select * from Accommodation where type='house' or type='cottage';
+----+--------------------------+---------------+-------+-------+--------+---------+
| 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 |
| 28 | Beautiful Calm Villa     | Tokyo         |   110 |     2 |    4.2 | house   |
| 3  | Agreable 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   |
| 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   |
```

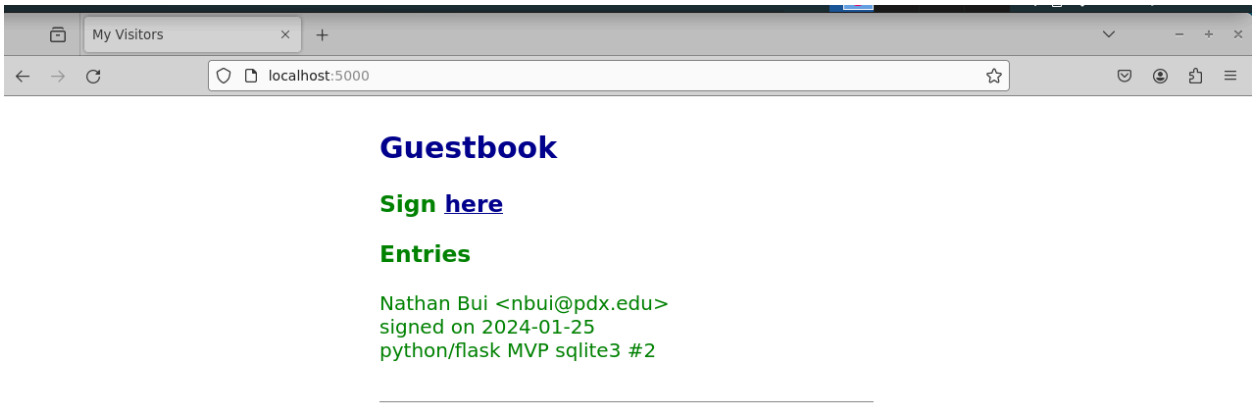
15. RDS test instance

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



Lab 03.3

4. Running the code



5. sqlite3 database

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
(env) nbui@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
   ...> ;
Nathan Bui|nbui@pdx.edu|2024-01-25|python/flask MVP sqlite3 #2
sqlite> select * from guestbook;
Nathan Bui|nbui@pdx.edu|2024-01-25|python/flask MVP sqlite3 #2
sqlite>
```