Week3

Lab3

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Class/Instructor: CS430P/ Dr. Wu-Chang
Date: 10/17/22

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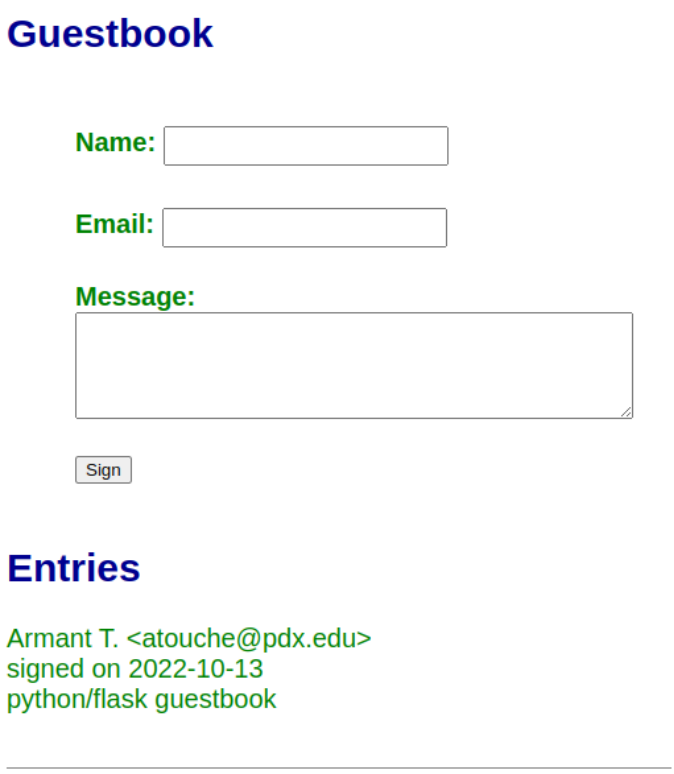
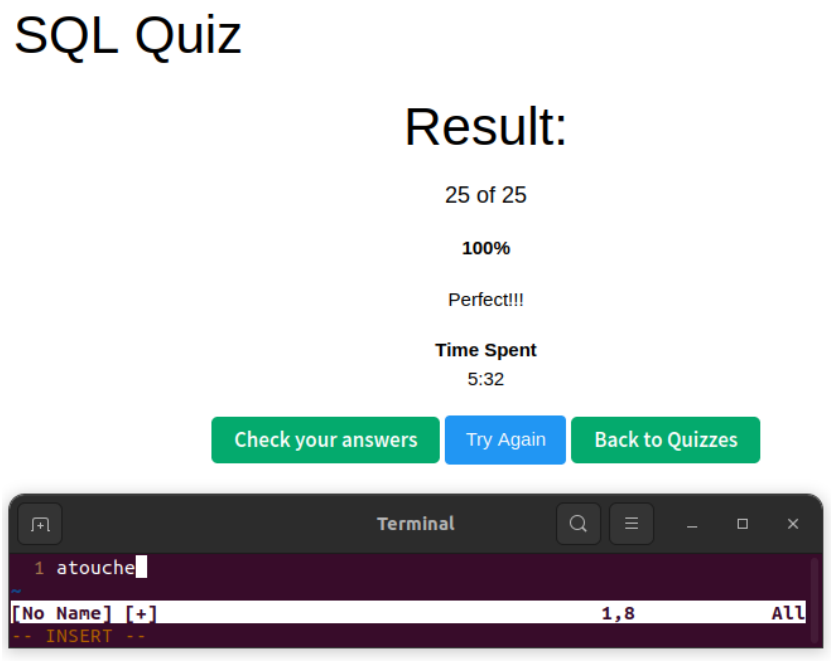
Python Flask Guestbook (Link)

- [ ] Python Flask
- [ ] Model
- [ ] Controller
- [ ] View
- [ ] 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.**



SQL (Link)

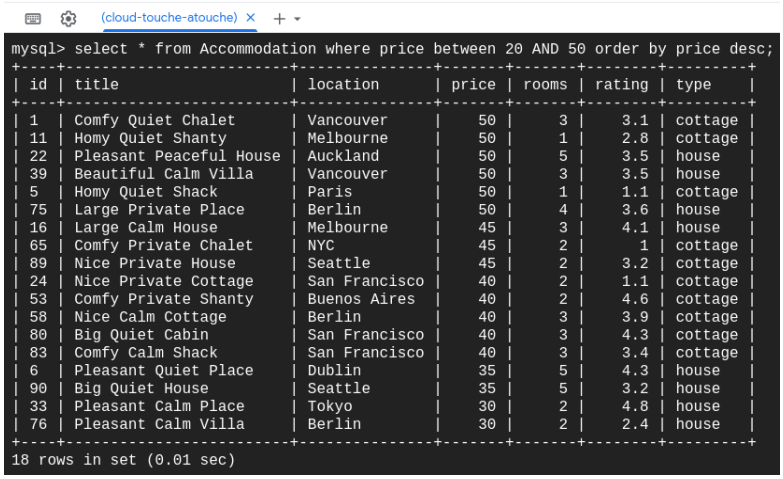
- [ ] SQL, Cloud SQL, RDS
- [ ] SQL Quiz
    - [ ] Visit w3 Quiz



- [ ] GCP Cloud SQL
    - [ ] In `cloud/table_creation.sql`, answer the following:
        - [ ] What are the names of the tables that are created?
            - [ ] `Accommodation`, `Rating`, and `Recommendation`
        - [ ] What are the primary keys of each table?
            - [ ] Accommodation -> PRIMARY KEY(ID)
            - [ ] Rating -> PRIMARY KEY(accoId, userID)
            - [ ] Recommendation -> PRIMARY KEY(accoId, userID)
        - [ ] 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)

- [ ] Examine cloudsql/accommodation.csv
    - [ ] 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.
        - [ ] id=6, title=Pleasant Quiet Place, location=Dublin, price=35, rooms=5, rating=4.3, type=house
        - [ ] id=77, title=Great Private Country House, location=Dublin, price=1150, rooms=10, rating=2.4, type=mansion
    - [ ] Stage files
        - [ ] Create regional storage bucket in `us-west1`
        - [ ] Copy files from `cloudsql/*` to bucket
    - [ ] Get session id
        - [ ] IP: 34.168.223.42
    - [ ] Verify bucket
- [ ] Cloud SQL instance creation
    - [ ] Create instance
        - [ ] Passwd: Zg"vq%r$O<0?y_+j
        - [ ] IP: 35.233.188.112
    - [ ] Add CloudShell_IP
- [ ] Cloud SQL network access
    - [ ] Setup Cloudshell access
- [ ] Cloud SQL importing data
    - [ ] Import files from bucket

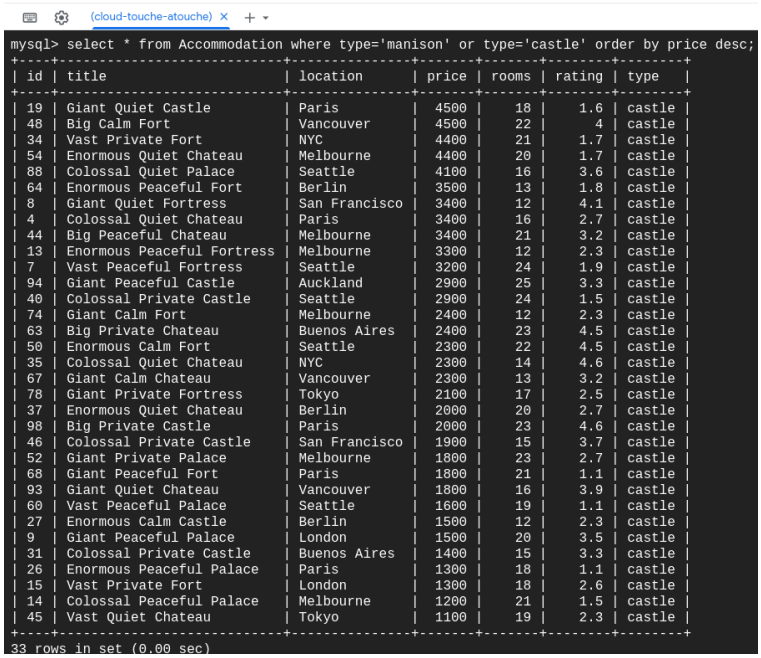
- [ ] Cloud SQL from Cloud Shell
  - [ ] 2 price levels



```
(cloud-touche-atouche) ×  +

mysql> select * from Accommodation where price between 20 AND 50 order by price desc;
+----+------------------------+---------------+-------+-------+--------+---------+
| 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 |
| 22 | Pleasant Peaceful House | Auckland     |    50 |     5 |    3.5 | house   |
| 39 | Beautiful Calm Villa   | Vancouver     |    50 |     3 |    3.5 | house   |
| 5  | Homy Quiet Shack       | Paris         |    50 |     1 |    1.1 | cottage |
| 75 | Large Private Place    | Berlin        |    50 |     4 |    3.6 | house   |
| 16 | Large Calm House       | Melbourne     |    45 |     3 |    4.1 | house   |
| 65 | Comfy Private Chalet   | NYC           |    45 |     2 |      1 | cottage |
| 89 | Nice Private House     | Seattle       |    45 |     2 |    3.2 | cottage |
| 24 | Nice Private Cottage   | San Francisco |    40 |     2 |    1.1 | cottage |
| 53 | Comfy Private Shanty   | Buenos Aires  |    40 |     2 |    4.6 | cottage |
| 58 | Nice Calm Cottage      | Berlin        |    40 |     3 |    3.9 | cottage |
| 80 | Big Quiet Cabin        | San Francisco |    40 |     3 |    4.3 | cottage |
| 83 | Comfy Calm Shack       | San Francisco |    40 |     3 |    3.4 | cottage |
| 6  | Pleasant Quiet Place   | Dublin        |    35 |     5 |    4.3 | house   |
| 90 | Big Quiet House        | Seattle       |    35 |     5 |    3.2 | house   |
| 33 | Pleasant Calm Place    | Tokyo         |    30 |     2 |    4.8 | house   |
| 76 | Pleasant Calm Villa    | Berlin        |    30 |     2 |    2.4 | house   |
+----+------------------------+---------------+-------+-------+--------+---------+
18 rows in set (0.01 sec)
```

  - [ ] 2 types

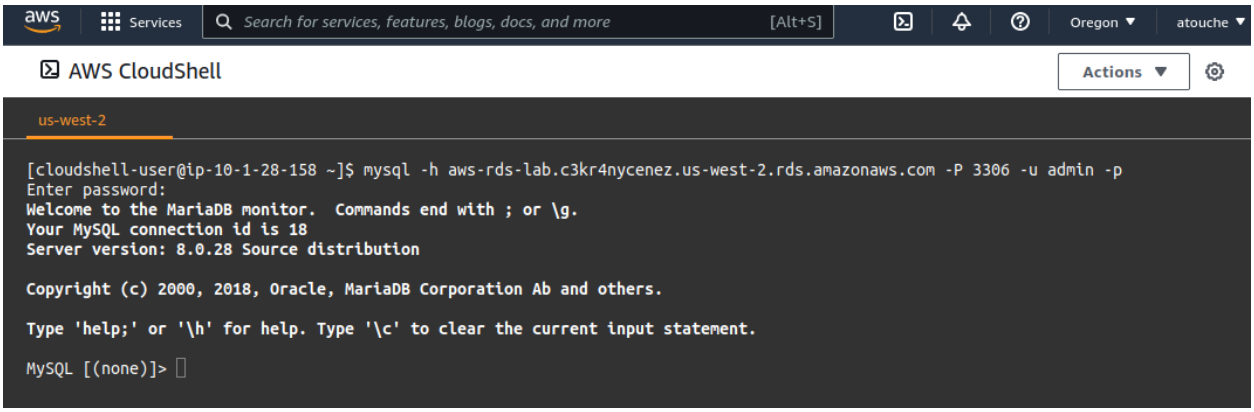


```
(cloud-touche-atouche) ×  +

mysql> select * from Accommodation where type='manison' or type='castle' order by price desc;
+----+--------------------------+--------------+-------+-------+--------+--------+
| id | title                    | location     | price | rooms | rating | type   |
+----+--------------------------+--------------+-------+-------+--------+--------+
| 19 | Giant Quiet Castle       | Paris        |  4500 |    18 |    1.6 | castle |
| 48 | Big Calm Fort            | Vancouver    |  4500 |    22 |      4 | castle |
| 34 | Vast Private Fort        | NYC          |  4400 |    21 |    1.7 | castle |
| 54 | Enormous Quiet Chateau   | Melbourne    |  4400 |    20 |    1.7 | castle |
| 88 | Colossal Quiet Palace    | Seattle      |  4100 |    16 |    3.6 | castle |
| 64 | Enormous Peaceful Fort   | Berlin       |  3500 |    13 |    1.8 | castle |
| 8  | Giant Quiet Fortress     | San Francisco|  3400 |    12 |    4.1 | castle |
| 4  | Colossal Quiet Chateau   | Paris        |  3400 |    16 |    2.7 | castle |
| 44 | Big Peaceful Chateau     | Melbourne    |  3400 |    21 |    3.2 | castle |
| 13 | Enormous Peaceful Fortress | Melbourne  |  3300 |    12 |    2.3 | castle |
| 7  | Vast Peaceful Fortress   | Seattle      |  3200 |    24 |    1.9 | castle |
| 94 | Giant Peaceful Castle    | Auckland     |  2900 |    25 |    3.3 | castle |
| 40 | Colossal Private Castle  | Seattle      |  2900 |    24 |    1.5 | castle |
| 74 | Giant Calm Fort          | Melbourne    |  2400 |    12 |    2.3 | castle |
| 63 | Big Private Chateau      | Buenos Aires |  2400 |    23 |    4.5 | castle |
| 50 | Enormous Calm Fort       | Seattle      |  2300 |    22 |    4.5 | castle |
| 35 | Colossal Quiet Chateau   | NYC          |  2300 |    14 |    4.6 | castle |
| 67 | Giant Calm Chateau       | Vancouver    |  2300 |    13 |    3.2 | castle |
| 78 | Giant Private Fortress   | Tokyo        |  2100 |    17 |    2.5 | castle |
| 37 | Enormous Quiet Chateau   | Berlin       |  2000 |    20 |    2.7 | castle |
| 98 | Big Private Castle       | Paris        |  2000 |    23 |    4.6 | castle |
| 46 | Colossal Private Castle  | San Francisco|  1900 |    15 |    3.7 | castle |
| 52 | Giant Private Palace     | Melbourne    |  1800 |    23 |    2.7 | castle |
| 68 | Giant Peaceful Fort      | Paris        |  1800 |    21 |    1.1 | castle |
| 93 | Giant Quiet Chateau      | Vancouver    |  1800 |    16 |    3.9 | castle |
| 60 | Vast Peaceful Palace     | Seattle      |  1600 |    19 |    1.1 | castle |
| 27 | Enormous Calm Castle     | Berlin       |  1500 |    12 |    2.3 | castle |
| 9  | Giant Peaceful Palace    | London       |  1500 |    20 |    3.5 | castle |
| 31 | Colossal Private Castle  | Buenos Aires |  1400 |    15 |    3.3 | castle |
| 26 | Enormous Peaceful Palace | Paris        |  1300 |    18 |    1.1 | castle |
| 15 | Vast Private Fort        | London       |  1300 |    18 |    2.6 | castle |
| 14 | Colossal Peaceful Palace | Melbourne    |  1200 |    21 |    1.5 | castle |
| 45 | Vast Quiet Chateau       | Tokyo        |  1100 |    19 |    2.3 | castle |
+----+--------------------------+--------------+-------+-------+--------+--------+
33 rows in set (0.00 sec)
```

- [ ] Cloud SQL cleanup

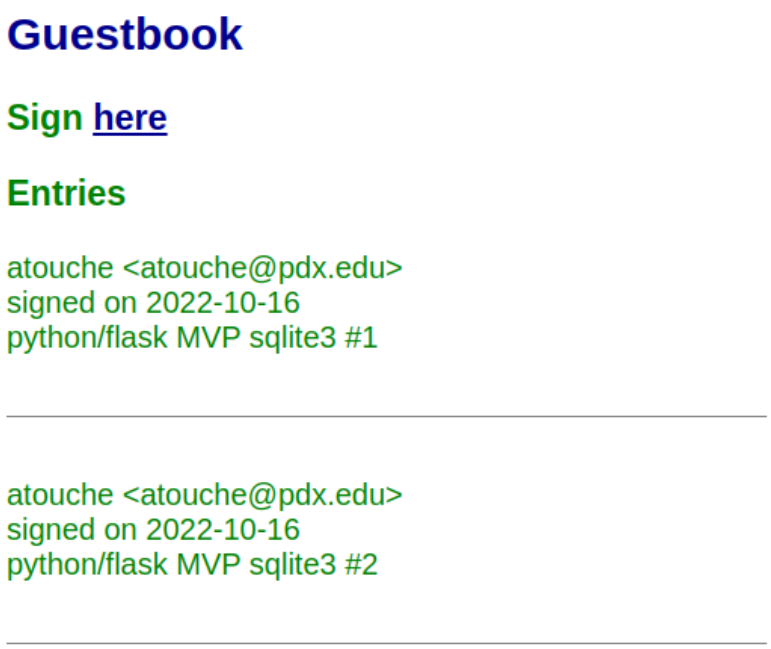
- [ ] AWS RDS
    - [ ] Get IP
        - [ ] 34.223.108.63
- [ ] RDS security group
    - [ ] Create security group
- [ ] RDS instance creation
- [ ] RDS database configuration
    - [ ] Passwd: mr5JnnvFn9QhyZv
- [ ] RDS network access
- [ ] RDS test instance
    - [ ] Screenshot of connection on port 3306



- [ ] RDS cleanup

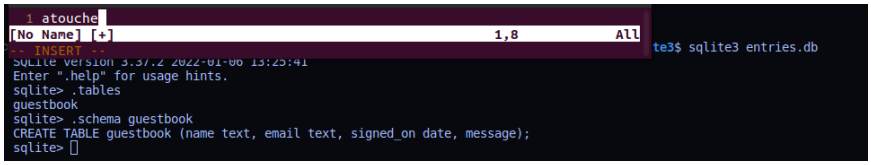
`sqlite3` Guestbook (Link)

- [ ] `sqlite3`
- [ ] `gbmodel` package
- [ ] Presenter architecture
- [ ] Running the code
    - [ ] Add 2 entries:

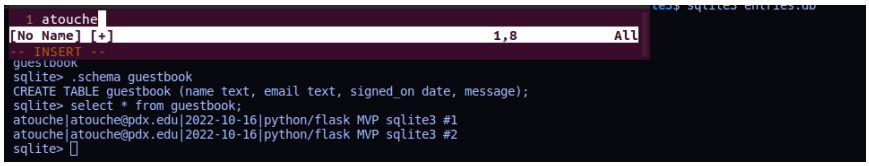


- [ ] `sqlite3` database
    - [ ] List tables and note the table names

    - [ ] Output schema



- [ ] Query all


1 atouche
[No Name] [+] 1,8 All
-- INSERT --
guestbook
sqlite> .schema guestbook
CREATE TABLE guestbook (name text, email text, signed_on date, message);
sqlite> select * from guestbook;
atouche|atouche@pdx.edu|2022-10-16|python/flask MVP sqlite3 #1
atouche|atouche@pdx.edu|2022-10-16|python/flask MVP sqlite3 #2
sqlite>