Lab 03

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CS530: Internet Web & Cloud, Fall 2023

Odin: srimel
** In all the terminal screenshots my Odin name is in the terminal prompt **

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Guestbook

Name: [   ]

Email: [   ]

Message:

[   ]

[Sign]

Entries

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signed on 2023-10-14
Odin: srimel

3.2ag: SQL

3.2.2: SQL quiz

SQL Quiz Results

Score: 23 of 25

92% Correct:

Odin srim +

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Ln 1, Col 13   100%   Windows (CRLF)   UTF-8

Question 1:

What does SQL stand for?

✔ Structured Query Language

Structured Question Language

Strong Question Language

Question 2:

Which SQL statement is used to extract data from a database?

✔ SELECT

EXTRACT

OPEN

GET

3.2.3: GCP Cloud SQL

- What are the names of the tables that are created?
    - Recommendation, Rating, Accommodation
- What are the primary keys of each table?
    - Accommodation PK = ID
    - Rating PK = accoId, userId
    - Recommendation PK = userId, accoId
- What data (e.g. columns) does the accommodation table hold?
    - Id, title, location, price, rooms, rating, type

- Dublin
    - Id = 6, title = Pleasant Quiet Place, location = Dublin, price = 35, rooms = 5, rating = 4.3, type = house
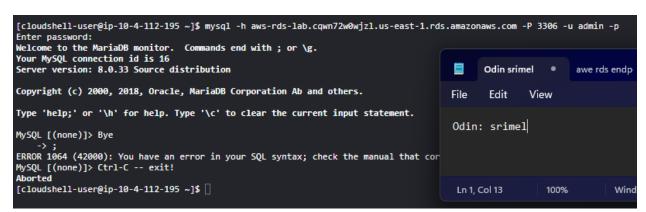
- Id = 77, title = Great Private Country House, location = Dublin, price = 1150, rooms = 10, rating = 2.4, type = mansion

3.2.7: Cloud SQL from Cloud Shell

Query displaying two price ranges with two types:

```
mysql> select *
    -> from Accommodation
    -> where (type = 'mansion' or type = 'castle')
    -> and ((price between 500 and 800) or (price between 1000 and 2000));
+----+------------------------------+---------------+-------+-------+--------+---------+
| id | title                        | location      | price | rooms | rating | type    |
+----+------------------------------+---------------+-------+-------+--------+---------+
| 10 | Sizable Calm Country House   | Auckland      |   650 |     9 |    4.9 | mansion |
| 14 | Colossal Peaceful Palace     | Melbourne     |  1200 |    21 |    1.5 | castle  |
| 15 | Vast Private Fort            | London        |  1300 |    18 |    2.6 | castle  |
| 20 | Big Private Hall             | Buenos Aires  |   650 |    12 |    1.2 | mansion |
| 26 | Enormous Peaceful Palace     | Paris         |  1300 |    18 |    1.1 | castle  |
| 27 | Enormous Calm Castle         | Berlin        |  1500 |    12 |    2.3 | castle  |
| 29 | Big Quiet Manor              | San Francisco |   650 |    12 |    4.3 | mansion |
| 31 | Colossal Private Castle      | Buenos Aires  |  1400 |    15 |    3.3 | castle  |
| 37 | Enormous Quiet Chateau       | Berlin        |  2000 |    20 |    2.7 | castle  |
| 41 | Big Calm Manor               | Seattle       |   800 |    11 |    2.7 | mansion |
| 45 | Vast Quiet Chateau           | Tokyo         |  1100 |    19 |    2.3 | castle  |
| 46 | Colossal Private Castle      | San Francisco |  1900 |    15 |    3.7 | castle  |
| 52 | Giant Private Palace         | Melbourne     |  1800 |    23 |    2.7 | castle  |
| 56 | Sizable Private Residence    | London        |   800 |    11 |    3.5 | mansion |
| 57 | Immense Quiet Residence      | Auckland      |   800 |    11 |    3.5 | mansion |
| 60 | Vast Peaceful Palace         | Seattle       |  1600 |    19 |    1.1 | castle  |
| 68 | Giant Peaceful Fort          | Paris         |  1800 |    21 |    1.1 | castle  |
| 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 |
| 9  | Giant Peaceful Palace        | London        |  1500 |    20 |    3.5 | castle  |
| 91 | Large Peaceful Hall          | Melbourne     |   650 |    10 |    1.9 | mansion |
| 93 | Giant Quiet Chateau          | Vancouver     |  1800 |    16 |    3.9 | castle  |
| 95 | Great Calm Hall              | San Francisco |   800 |    11 |    3.8 | mansion |
| 96 | Immense Private Country House | Tokyo        |   800 |     9 |    3.8 | mansion |
| 98 | Big Private Castle           | Paris         |  2000 |    23 |    4.6 | castle  |
+----+------------------------------+---------------+-------+-------+--------+---------+
27 rows in set (0.01 sec)
```

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3.2.15: RDS test instance

```
[cloudshell-user@ip-10-4-112-195 ~]$ mysql -h aws-rds-lab.cqwn72w0wjzl.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 16
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)]> Bye
    -> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that cor
MySQL [(none)]> Ctrl-C -- exit!
Aborted
[cloudshell-user@ip-10-4-112-195 ~]$ 
```

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3.3: sqlite3 Guestbook

3.3.4: Running the code

Guestbook

Sign here

Entries

Stuart Rimel <srimel@pdx.edu>
signed on 2023-10-14
python/flask MVP sqlite3 #1

Stuart Rimel <srimel@pdx.edu>
signed on 2023-10-14
python/flask MVP sqlite3 #2

3.3.5: sqlite3 database

```
srimel@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;
Stuart Rimel|srimel@pdx.edu|2023-10-14|python/flask MVP sqlite3 #1
Stuart Rimel|srimel@pdx.edu|2023-10-14|python/flask MVP sqlite3 #2
sqlite>
```