

Database Design, CSCI 340, Spring 2016
SQL - Basic, Chapter 6, pages 133-151, Jan. 15

Open putty and login to your katie account.

From within your katie account, we'll all access the same MySQL account.

username: csci340User

password: csci340Pass

Login to MySQL via the command:

mysql -u csci340User -p

Enter password: csci340Pass

Useful SQL commands:

SHOW DATABASES; // View a list of available databases

USE HotelReservations; // Move into the HotelReservations database

SHOW TABLES; // View list of tables in current database

DESCRIBE tableName; // View "intension" of a specified table

SELECT *

FROM tableName; // View "extension" of a table

Write the SQL commands to do the following:

1. Give the name of all databases to which csci340User has access.
2. Move into, use, the HotelReservations database.
3. Give the name of all tables in the HotelReservations database.
4. List the column names and type of all columns in the Hotel table.
5. List the full details of all hotels. (The result will contain 8 records.)

16. List the average price of all rooms in the database but make the column name read "Average Room Price". The result should look like the following:

```
+-----+
| Average Room Price |
+-----+
|           122.291667 |
+-----+
1 row in set (0.00 sec)
```

17. Write a query that tells the number of distinct hotels in the database. (The three hotels in the database called Holiday Inn should be counted as different.) Make the column heading be: # of hotels.

There are 8 such hotels.

18. Write a query that tells the number of distinct hotel names in the database. (This time the three hotels called Holiday Inn should not be counted as different.) Make the column heading be: # of hotels.

There are 6 such hotels

19. Write two queries which list the name, address and city of all hotels which are in Butte or Missoula. Order these by the hotel name. Note that your queries must work for any extension of the database, not just the current extension. (Both results will contain 7 records.)

Challenge:

Do Question 16 again but format the result so that it looks like a dollar amount.