

INST 327 – Database Design and Modeling
Assignment 4 - Due: Monday, April 29, 2019, 11:59 PM

Questions

See the assignment on Canvas for the database creation script and the partially completed code that you need for Q3 & Q4.

Q.1) (20 points)

Create a view that lists the guests who have reservations that begin on a Monday, Tuesday, Wednesday, or Thursday. Include the following columns:

- a concatenated version of the guest's name (e.g., Granger, Hermoine)
- the check-in date, formatted as mm/dd/yyyy (e.g., 05/01/2018)
- the day of the week spelled out fully (e.g., Monday)

Use aliases to provide descriptive and user-friendly column names. Sort the results by day of week, last name, first name.

Hint: when sorting by day of week you don't want to sort alphabetically; instead you want to sort by the numeric position of the day of week, using DATE_FORMAT code %w (instead of %W).

Q.2) (20 points)

Create a view that lists guests whose reservation is longer than 3 days. Include the following columns:

- a concatenated version of the guest's name (e.g., Granger, Hermoine)
- the check-in date, formatted as mm/dd/yyyy (e.g., 05/01/2018)
- the check-out date, formatted as mm/dd/yyyy (e.g., 05/05/2018)
- the number of days for the reservation

Use aliases to provide descriptive and user-friendly column names. Sort the results by descending reservation length, then by last name, first name.

Q.3) (30 points)

The Canvas assignment includes a link to a script for a partially completed function called CalcRoomPrice. Review the code, including the comments, to understand the requirements of the function. You will complete the function, using the comments as a guide.

HINT: test your function using a query such as:

```
select CalcRoomPrice('king',5);
```

Q.4) (30 points)

The Canvas assignment includes a link to a script for a partially completed stored procedure called SetVIPstatus. Review the code, including the comments, to understand the requirements of the stored procedure. You will complete the stored procedure, using the comments as a guide.

HINT: test your stored procedure by calling it, and then inspecting the guests table. E.g., you could call it like this:

```
CALL set_VIP_status(6);
```

then inspect the guests table to verify that the VIP field was correctly updated for the guest with guest_id = 6.