CE33/40/ 30FHI2 2010	CPS3740/	Spring	2018
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Homework #2

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Name:

- Due date: by 11:59pm on **April 21, 2018**
- Please write stored procedures and stored functions based on the **dreamhome** database.
- You must create and test your programs on database CPS3740_2018S at server imc.kean.edu.
- Your program names must EXACTLY follow each question format. The program name is case sensitive.
- XXXX means your email ID in the test case examples.
- The test cases in each question provide as the testing SQL queries with the corresponding results. You should test your programs with different input values and make sure the results are correct.
- The title of your output should also match the test cases.

1. Write a **stored function** named **fHW2_1_XXXX (...)** based on the **Staff** table. It should take two arguments **branchno** and **gender**, and it should meet the following 3 test cases.

1A (5 points) If the given gender is not 'M' or 'F', please do not run the select query and your program should return the error message "No such gender: A ". "A" is the input gender. mysql> select fHW2_1_xxxx('B004','A') as output;	+ output
1B (10 points) If the gender is 'F' and the given branchno is in Staff table, please return the maximum salary of the female staff working at the given branchno. mysql> select fHW2_1_xxxx('B003','M') as output;	Your output should clearly indicate male, branchno, and the minimum salary. output
1C (10points) If the gender is 'M' and the given branchno is in Staff table, please return the minimum salary of the male staff working at the given branchno. mysql> select fHW2_1_xxxx('B003','F') as output;	Your output should clearly indicate female, branchno, and the maximum salary. output
1D (5 points) If the gender is 'F' or 'M', and the given branchno is not in the Staff table, please return a NULL value. mysql> select fHW2_1_xxxx('B009','M') as output;	++ output ++ NULL ++

2. (20 points) Write a **stored procedure** named **pHW2_2_XXXX (...)** based on the **Hotel**, **Room** and **Booking** tables. Your program should take one argument **hotelname** and it should meet the following 2 test cases.

2A (10 points) If the given hotel name is in the Hotel table, please display the room type, and the number of room booked for each room type for the given hotel name. mysql> call pHW2_2_XXXX('Grosvenor');	2B (10 points) If the given hotel name is empty or null, please display an error message "invalid hotel name". mysql> call pHW2_2_XXXX(NULL); mysql> call pHW2_2_XXXX("');
type	message +
single 2 ++	++

3. (25 points) Write a stored procedure named pHW2_3_XXXX (...) based on the Guest table. It should take one IN argument city and have one OUT argument result. Your program should meet the following 3 test cases.

3A (5 points) If the given city is empty or NULL, please display "Please input a valid city." mysql> call pHW2_3_XXXX(NULL,@result); select @result; mysql> call pHW2_3_XXXX(",@result); select @result;	+
3B (10 points) If the given city is in the Guest table, please display guest names for all guests whose addresses has pattern matching the given city.	+ @result
mysql> call pHW2_3_XXXX('London', @result); select @result;	
3C (10 points) If the given city xyz is not in the Guest table, please display "NO people found for city: xyz". DO NOT hardcode the city name in your output. mysql> call pHW2_3_xxxx('xyz',@result); select @result;	Your output should clearly indicate the input city name.
	@result
	NO people found for city:xyz

4. (25 points) Write a **stored function** named **fHW2_4_XXXX (...)** based on the **Guest** table. Your program should take one argument **city** and it should meet the following 3 test cases.

4A (10 points) If the given city is in the Guest table, please return text with names for all guests whose address includes the given city. mysql> select fHW2_4_xxxx('London') as output;	4B (10 points) If the given city is empty or NULL, please display "Please input a valid city." mysql> select fHW2_4_xxxx(") as output; mysql> select fHW2_4_xxxx(NULL) as output;
++ output	output
John Kay, Mike Ritchie	Please input a valid city.
4C (5 points) If the given city is not in the G	Suest table, please display "No result found".
mysql> select fHW2_4_xxxx('Union') as output;	
output	
No result found	
++	