CPS3740/ Spring 2019	Homework #	<i>‡</i> 1,	Name:	Dr. Huang

- A. Due date: 11:59pm on February 16, 2019
- B. Late penalty: 10 points off per week after due date. The maximum score will be 60 after the answers are given.
- C. No resubmission after receiving the score. You MUST completely test your assignments before the deadline.
- D. Please **implement** your answers in the database **CPS3740_2019S** on **imc.kean.edu** server.
- E. You have to refer to tables **Staff**, **Hotel**, **Room**, **Booking**, **Guest** in database **CPS3740** on **imc.kean.edu** server.
- F. Your SQL answer should be "CREATE view vHW1_#_xxxx as SELECT", where # is the question number, xxxx is your Kean email ID, and SELECT is your answer.
- G. Your view name and table name must be **EXACTLY** the same as the requirement.
- H. Please view your answers online at http://imc.kean.edu/students.
- I. If your SQL code is working, you don't need to write the SQL statements on the paper.
- J. If the SQL code is **NOT** working, please write the **SQL** statement and the **result** on the back of this paper so you can get partial credits. You will receive **maximum 50%** of the point.
- 1. **(10 pts) Create a view vHW1_1_xxxx** listing the **first name**, **salary** for the **staff** who is **male** and **position is Manager**.
- 2. (10 pts) Create a view vHW1_2_xxxx listing the last_name and position for staff who has 'e' in the first_name name. The output should be alphabetically ordered from A to Z by the last_name.
- 3. (10 pts) Create a view vHW1_3_xxxx listing the number of female staff working at city London.
- 4. (10 pts) Create a view vHW1_4_xxxx showing the unique hotel name and the price for the hotel that has the most expensive room among all the hotels and all room types.
- 5. (10 pts) Create a view vHW1_5_xxxx listing staff first name, position and their manage first names and positions for all male staff. The output header needs to distinguish between staff and manger.
- 6. (10 pts) Create a view vHW1_6_xxxx listing the branch city that has at least two staff working in the branch;
- 7. **(15 pts)** Create a view **vHW1_7_xxxx** listing the **guest name**, **number of days** and the **amount** each guest needs to pay to the hotels for their stays. Your result should not include any **unknown** value in the **dateto**. Your result should include **guest name**, **hotel name**, **number of days**, and **amount** to pay.
- 8. (15 pts) Create a table Money_xxxx with the following fields and constraints.
 - mid: int primary key auto_increment, code varchar(50) unique, cid: int, type: char(1), amount: float, mydatetime: datetime, note: varchar(255)
 - All fields cannot have NULL values, except note.
 - mid is the primary key, and the value should be auto increment by the DBMS.
 - **cid** is a **foreign key** references to the id field in **CPS3740.Customers** table.
 - **code** should be **unique**.
 - sid is a foreign key references to the id field in CPS3740.Sources table
- 9. (10 pts) Please insert 4 transactions into your money table with the following information.
 - a. Use only cid=1 for the homework 1
 - b. type 'D': deposit, 'W': withdraw
 - c. mydatetime the date and time when you insert the record.
 - d. note "Manually inserted" for homework 1
 - e. Insert two deposits and two withdraws.
 - f. Amount a negative number for the "W" (withdraw), and a positive number for "D" (deposit).
 - g. The 4 transactions should have different codes.
 - h. The balance (the sum of the amounts) should not be negative for any customer.