

CPS3740/ Spring 2018 Homework #1, Name: _____ Dr. Huang

- A. Due date: **11:59pm on February 17, 2018**
 - B. Late penalty: **20 points off per week after due date. The maximum score will be 60 after the answers are given.**
 - C. Please **implement** your answers in the database **CPS3740_2018S** on **imc.kean.edu** server.
 - D. You have to refer to the tables – **Staff, Hotel, Room, Booking, Guest** in database **CPS3740** on **imc.kean.edu** server.
 - E. 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.
 - F. Your **view name** and **table name** must be **EXACTLY** the same as the requirement.
 - G. Please view your answers online at <http://imc.kean.edu/students>.
 - H. If your SQL code is working, you don't need to write the SQL statements and results on the paper.
 - I. 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.
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1. (10 pts) Create a view **vHW1_1_xxxx** listing the **first name**, **position** and the **result** for the **staff** who is **female** and **has salary more than 15000**.
2. (10 pts) Create a view **vHW1_2_xxxx** listing the **city** and **postcode** for **branch** that has ‘**ee**’ in the **street** name. The output should be alphabetically **ordered from A to Z by the city name**.
3. (10 pts) Create a view **vHW1_3_xxxx** listing the **number of 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 **cheapest** 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 manager first names** and **positions** for all **male staff**. The output header needs to distinguish between staff and manager.
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 **date to**. Your result should include **guest name**, **hotel name**, **number of days**, and **amount** to pay.
8. (15 pts) Create a table **Customers_xxxx** with the following fields and constraints.
 - **id**: int type, **name**: varchar type, **balance**: float type, **zipcode**: varchar type
 - **All fields cannot have NULL** values.
 - **id** is the **primary key**, and the value should be **auto increment** by the DBMS.
 - **zipcode** is a **foreign key** references to the **zipcode** field in **CPS3740.Zipcode** table.
9. (10 pts) Please insert **4 records** into your **Customers** table.