

Set B

Lab Quiz 3

CSE 3522/CSI 222_B - Database Management Systems Laboratory

Total marks: 15

Time: 30 mins

Instructions on how to save & upload scripts

- After a query runs successfully copy latest contents from the console tab (at bottom) by clicking on the expand tab (visible on mouse hover)
- Save these to a text file
- Rename the txt file as *<yourFullStudentID>.txt*
- Upload the text file in LMS in due time

Rules:

- Late submission not allowed
- Zero marks for copying scripts or any unfair means
- You know the other rules.

Deadline: 10th January 2022 (Monday) 11:40 PM

No extension is possible past the due time.

Miscellaneous:

- Download sampleofficeschema database from here **if not already imported:**
<https://drive.google.com/file/d/1FtMTySdfQ5DEmilsF3eQHciq9Ed4i2GX/view?usp=sharing>
- Download hr_schema database from here **if not already imported:**
https://drive.google.com/file/d/1JZhqLTZhXmti-gjicJGeYJimtL_tKGmP/view?usp=sharing
- Σ means summation

From the *sampleofficeschema* database, answer the following questions

1. Select the unique states of customers from the `customers` table. [1]
2. Find which order has total sales greater than 1000 by using the `HAVING` clause from the `orderdetails` table. [2]
 - a. Hint: calculate total sales as $\sum(quantityOrdered * priceeach)$
3. Find orders that have total amounts greater than 900 and contain more than 700 items: [2]
 - i. $items = \sum quantityOrdered$
 - ii. $orders = \sum(quantityOrdered * priceeach)$

Using subqueries, from the *hr_schema* database, answer the following questions [5 * 2 = 10]

4. Write a query to display the employee ID, first name, last name, and **department names** of all employees.
5. Write a query to find the name (`first_name`, `last_name`) of all employees who works in the IT department.
6. Write a query to find the name (`first_name`, `last_name`) of the employees who are managers.
7. Write a query to find the name (`first_name`, `last_name`), and salary of the employees who earns more than the average salary and works in any of the IT departments.
8. Write a query to find the name (`first_name`, `last_name`) and salary of the employees who earn a salary that is higher than the salary of all the Sales Representatives (`JOB_ID = 'SA_REP'`). Sort the results of the salary of the lowest to highest.