

# CSE 370: Database Systems

## Lab Homework 3 Spring 2022

### Question 1

Here is a **table**, with the name of its **columns** below its name:

<b>orders</b>				
order_no	purchase_amt	order_date	customer_id	salesman_id

- a) Find the order\_no(s) which are priced higher than the average of all purchase\_amt.
- b) Find all the orders generated by the salesman who sold to the customer with customer\_id 309.
- c) Find the order\_no and order date of the sales in 2021 that have a higher purchase amount from all sales in 2020.

### Question 2

Here is a table, with the name of its column below its name:

<b>employees</b>					
employee_id	first_name	last_name	job_id	salary	department_id

- a) Find the employees whose salary is between the smallest salary and 2500.
- b) Find all the employees whose salary matches the lowest salary. Return the first\_name, last\_name and department\_id.
- c) For each department, find the employees whose salary is the lowest in their own department. Return the first\_name, last\_name, salary and department\_id.

### Question 03

Here is a table, with the name of its column below its name:

**final\_marks**

student_id	name	dept	lab_marks	theory_marks	cgpa
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- Find the Student ID and Name of the students who have obtained minimum marks in Lab.
- Find the Student ID, Name and cgpa of the students who have obtained maximum marks in Theory in each department that have more than 2 students.
- Retrieve the name of the students who are from **BBS** department with higher cgpa than at least one student from **ENH** department.
- Retrieve the name, student id and lab marks of the students who are from **CSE** department and got higher theory\_marks than everyone from **CS** department.