**Department of Computer Science and Engineering**

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| **Course Code: CSE 370** | **Credits: 3.0** |
| **Course Name: Database Systems** |  |

**Instructions:**

1. Write down the MySQL commands in a doc file for each task.  
2. Write down the MySQL commands in the XAMPP shell, take screenshots of the commands with the output and attach all of the screenshots in your submission document file after every task.   
3. Take the screenshots of your table or whatever changes your query made to the database / table after each task and attach all of the screenshots too in your submission document file (if applicable).

4. Please do not submit any screenshot where error message is shown.

**Lab Homework 3**

Proving yourself worthy of being able to handle bigger tasks, the tech lead has decided to give you a challenging job. However, this time, the data that you would be handling is very sensitive and no one wants this data to be leaked. Therefore, instead of getting the entire table, the tech lead has given you the list of attributes that the table contains and the table name. The information given is as follows:

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| Table Name: ***employees*** | |
| Attribute Name | Attribute type |
| ***employee\_id*** | char(10) |
| ***first\_name*** | varchar(20) |
| ***last\_name*** | varchar(20) |
| ***email*** | varchar(60) |
| ***phone\_number*** | char(14) |
| ***hire\_date*** | date |
| ***job\_id*** | int |
| ***salary*** | int |
| ***commission\_pct*** | decimal(5,3) |
| ***manager\_id*** | char(10) |
| ***department\_id*** | int |

You are tasked with building the queries to retrieve the following information [test out your queries with dummy data]: [7 X 2 =14]

1. Find the **first\_name, last\_name, email, phone\_number, hire\_date** and **department\_id** of all the employees with the latest **hire\_date**.
2. Find the ***first\_name*, *last\_name*, *employee\_id*, *phone\_number, salary*** and ***department\_id***of all the employees with the lowest **salary** in each department.
3. Find the ***first\_name*, *last\_name*, *employee\_id*, *commission\_pct*** and ***department\_id***of all the employees in department XYZABC (**department\_id** = 7) who have a lower ***commission\_pct***than all of the employees of department ABCXYZ(**department\_id** = 5).
4. Find the **department\_id** and total number of employees of each department which does not have a single employee under it with a **salary** more than 30,000.
5. For each of the departments, find the ***department\_id***, ***job\_id***and ***commission\_pct***with ***commission\_pct***less than at least one other ***job\_id***in that department.
6. Find the ***manager\_id*** who does not have any employee under them with a ***salary*** less than 3500.
7. Find the ***first\_name*, *last\_name*, *employee\_id*, *email, salary,******department\_id*** *and* ***commission\_pct***of the employee who has the lowest ***commission\_pct***under each manager.