CSE370

Database Systems

Lab Homework-3

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Section: 06

MariaDB [project]> create table Employees

-> (

-> employee\_id char(10),

-> first\_name varchar(20),

-> last\_name varchar(20),

-> email varchar(60),

-> phone\_number char(14),

-> hire\_date date,

-> job\_id char(10),

-> salary int,

-> commission\_pct decimal(5,3),

-> manager\_id char(10),

-> department\_id char(10)

-> );

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MariaDB [project]> INSERT INTO Employees VALUES

-> ("EMP001", "Michael", "Scott", "scott@gmail.com", "01565637846782", "1999-09-20","JOB001", 100000,12.678,"MNG001","DPT001"),

-> ("EMP002", "Jim", "Harper","harper@gmail.com", "01945637846782", "2004-09-30","JOB002", 6000,13.898,"MNG002" ,"DPT002"),

-> ("EMP003", "Pam", "Beesly","pam@gmail.com", "01789657846782", "2005-09-28","JOB003", 250,15.163,"MNG003" ,"DPT003"),

-> ("EMP004", "Angela", "Martin","martin@gmail.com", "04589637846782", "2004-09-28","JOB004",6500,17.231,"MNG004" ,"DPT004"),

-> ("EMP005", "Dwight", "Shrute","Shrute@gmail.com", "01945637846782", "2003-09-30","JOB001", 600,18.929,"MNG005" ,"DPT005"),

-> ("EMP006", "Kelly", "Kapoor","Kelly@gmail.com", "01945637567782", "2003-09-30" , "JOB001", 45000,17.636,"MNG006" ,"DPT006"),

-> ("EMP007", "Andrew", "Bernard","Andrew@gmail.com", "01945637846782", "2007-05-10","JOB002",500,13.585,"MNG007","DPT007"),

-> ("EMP008", "Kevin", "Malone","Kevin@gmail.com", "01789637846782", "2004-10-30","JOB003", 65000,13.585,"MNG003" ,"DPT003"),

-> ("EMP009", "Toby", "Flender","Toby@gmail.com", "019456378464567", "2004-09-30" , "JOB004",70,15.163,"MNG009","DPT002"),

-> ("EMP010", "Phyllis", "Vance","Vance@gmail.com", "01945645646782", "1999-09-20","JOB005", 61000,18.216,"MNG004","DPT001");

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**Answer of question 1:**

MariaDB [project]> select first\_name, last\_name, email, phone\_number, hire\_date, department\_id from employees where hire\_date=(select max(hire\_date) from employees);



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**Answer of question 2:**

MariaDB [project]> select first\_name, last\_name, employee\_id, phone\_number, salary, department\_id from employees where salary in (select min(salary) from employees group by department\_id);



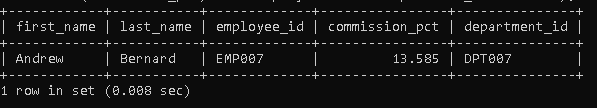
A screenshot of a computer

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**Answer of question 3:**

MariaDB [project]> select first\_name, last\_name, employee\_id, commission\_pct, department\_id from employees where department\_id="DPT007" and commission\_pct< (select max(commission\_pct) from employees where department\_id="DPT005");

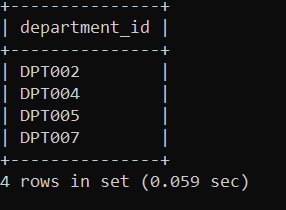




**Answer of question 4:**

MariaDB [project]> select distinct department\_id from employees where salary in (select max(salary) from employees group by department\_id) and salary<30000;





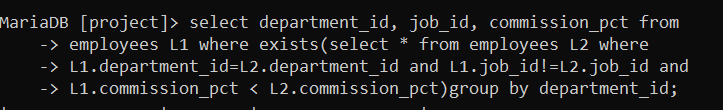
Answer of question 5:

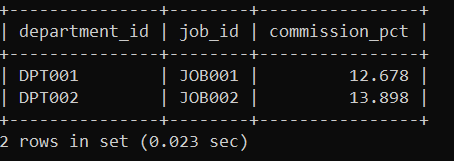
MariaDB [project]> select department\_id, job\_id, commission\_pct from

-> employees L1 where exists(select \* from employees L2 where

-> L1.department\_id=L2.department\_id and L1.job\_id!=L2.job\_id and

-> L1.commission\_pct < L2.commission\_pct)group by department\_id;





**Answer of question 6**

MariaDB [project]> select distinct manager\_id from employees where salary>3500;



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**Answer of Question 7:**

MariaDB [project]> select first\_name, last\_name, employee\_id, email, salary, department\_id , commission\_pct

-> from employees where (manager\_id,commission\_pct) in (select manager\_id,min(commission\_pct) from employees group

-> by manager\_id);



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