Indian Institute of Information Technology Dharwad, Karnataka

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Course:- DBMS(CS310)

Task:- Assignment-4 (Updated)

Aim:

The aim of this assignment to add some more rows of data in the previous **employee** database and to perform some more operation on **employee** database. By completing this task we shall have better handson in SQL query.

SQL Code Snippet (Updated in Assignment-04):

```
/* SQL Code for assignment-04 (Updated employee Database)*/
insert into department values('aa301', 'software', 000000009, 'autoA');
select * from department;
insert into project values('autoattn', 'aa301', 'Project on a automatic attendence system',
'2023-10-10', '2024-11-06', 2900000000.00); // Inserting a project which will be started in future(10/10/2023)
select * from project
where startdate > '2022-06-10'; // selecting project which will start in future but generating revenue
select projectid, startdate, stopdate,
DATEDIFF(startdate, stopdate) as Date difference from project; //applying DATEDIFF() function to find date differ
select distinct startdate from project;
select projectid, startdate from project
order by startdate; // retrieving rows in ascending order of the start date
select avg(salary) as Avg_salary from employee; // Using Aggregate function to find average salary
select min(salary) as Minimum_salary from employee; // Using Aggregate function to find min salary
select max(salary) as Miximum_salary from employee; // Using Aggregate function to find Max salary
select * from employee
where firstname like 'a%'; // select employees whose first name is starting with 'a'
```

```
select * from employee

where length(firstname)=6; // select employees whose name contains 6 character (Using 'length()' function)

insert into department values('BB444', 'SFkmt', 000000010, 'BcutB');

insert into employee values(000000009, 'Mac', 'Donald', 'BB444', 0068000.00);

/* 1st way to retriev the rows of employee who works in two department (by using self join)*/

/*select employeeID from employee as T1, employee as T2

where T1.employeeID=T2.employeeID and T1.deptcode <> T1.deptcode; */

/* 2nd way to retriev the rows of employee who works in two department (using where clause and condition)*/

select employeeID from employee

where deptcode in

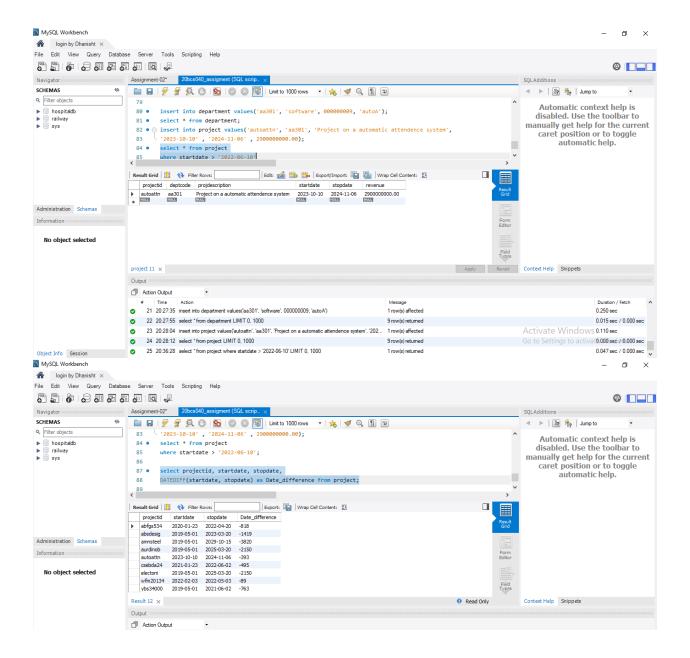
(select deptcode from department group by deptcode

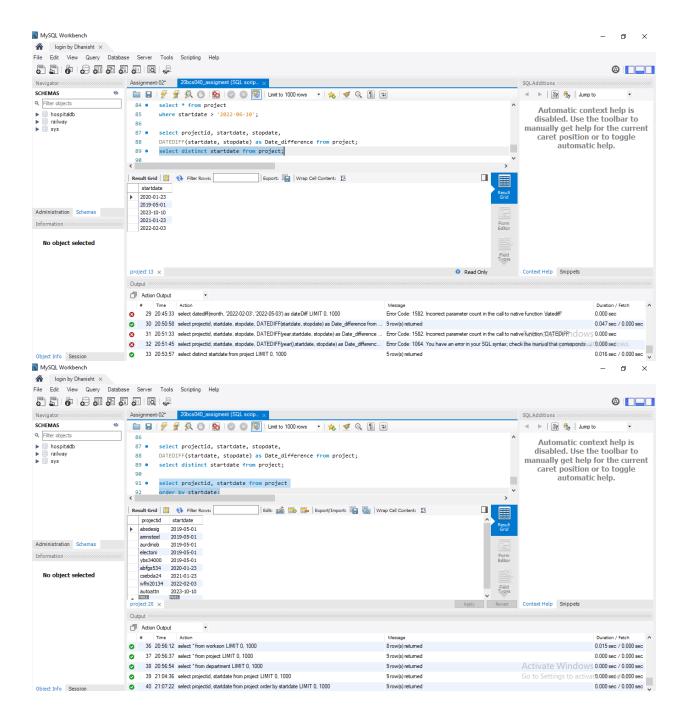
having count(*)>1);

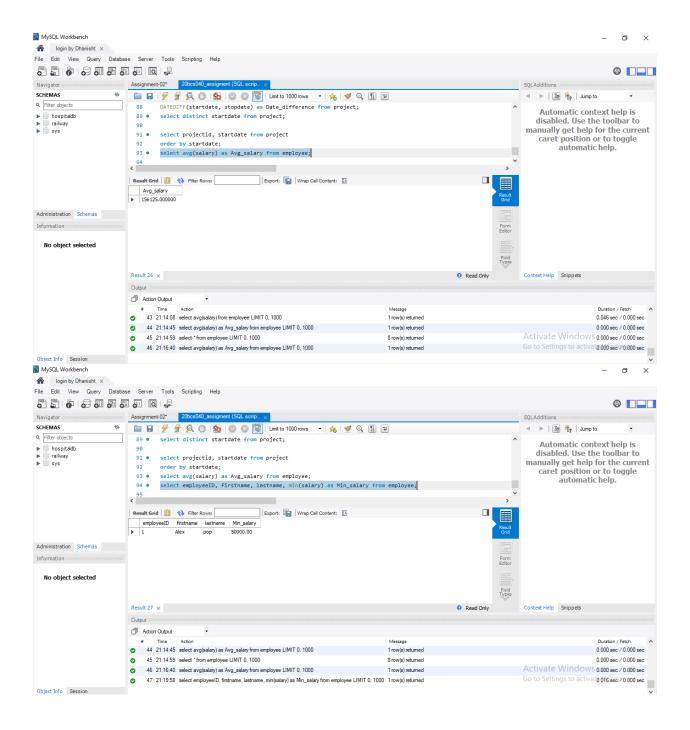
select min(salary) as Minimum_salary, max(salary) as Maximum_salary

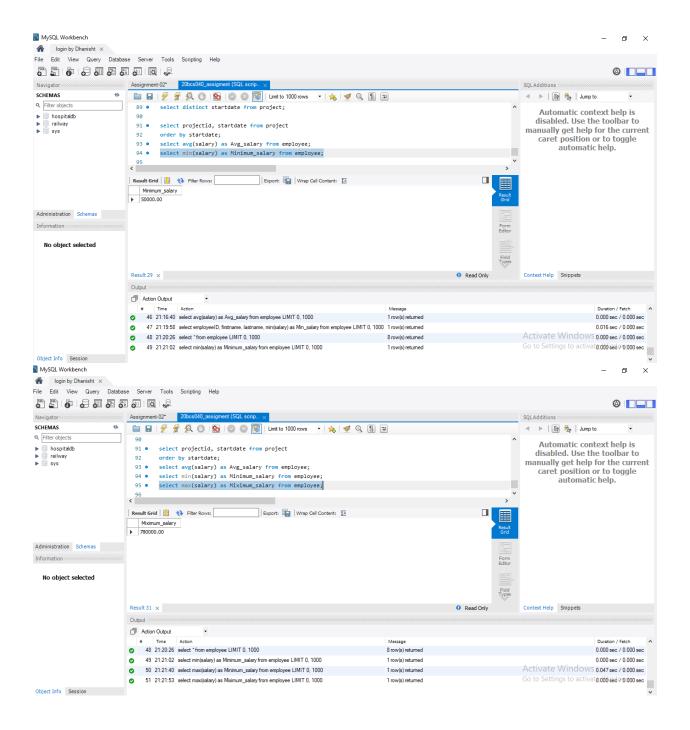
from employee;
```

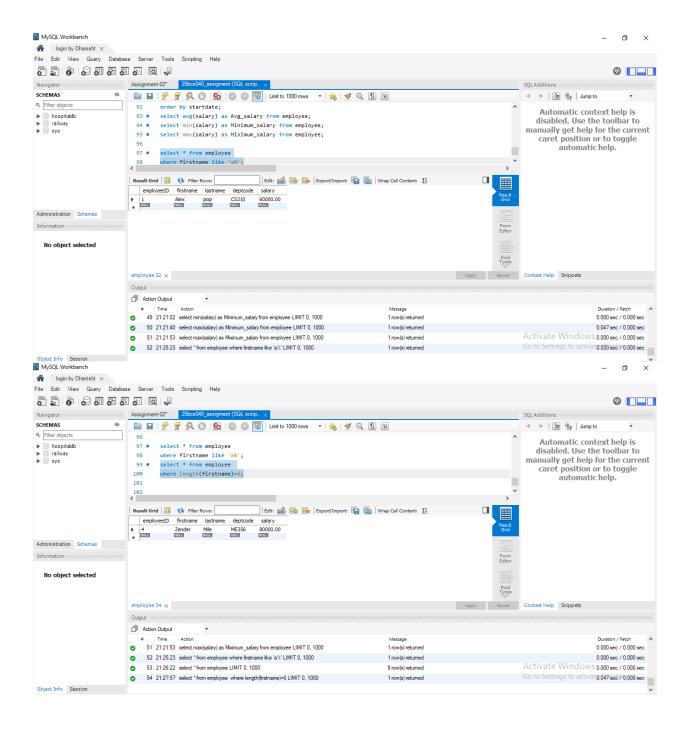
Screenshots of SQL Codes and Tables:

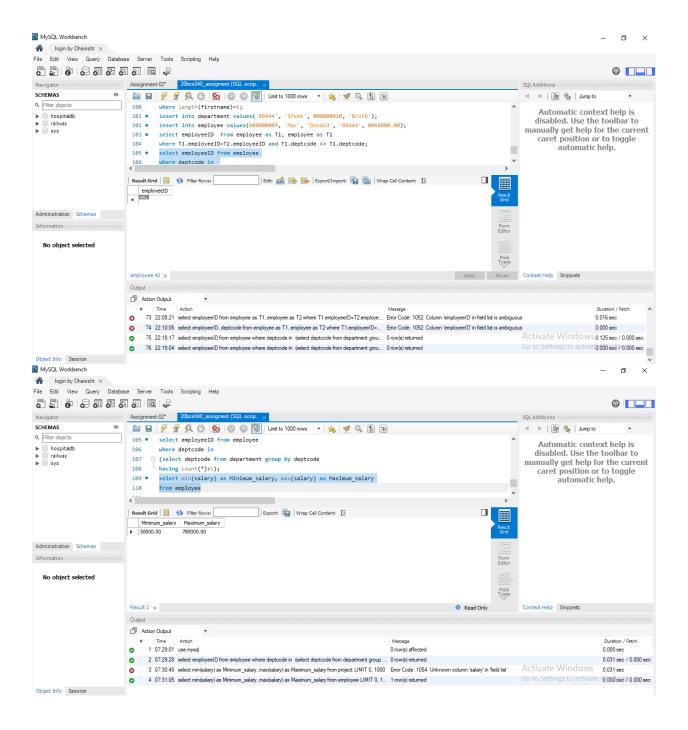












Screenshots of all the commands and associated tables (above) by following all the 12 instruction given in the assignment.