

LAB ASSIGNMENT

Introduction to Algorithm Lab CSE-412

Submitted to:

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1 ASSIGNMENT SOLUTIONS:

2. Display the names and hire dates for all employees who were hired before their managers, along with their manager's names and hire dates.

```
1 select l.lastname ,l.hiredate ,m.lastname,m.hiredate
2     from staffs l,staffs m
3     where l.managerid=m.employeeid
4     and l.hiredate<m.hiredate ;
```

3. Write a query to show the name of the department that has highest number of job categories.

```
1
2 select departmentname,departmentid
3     from departments
4     where departmentid in
5         (
6         select departmentid
7         from staffs
8         group by departmentid
9         having count(*) in ( select max( numberofjob)
10        from
11        ( select count(*) numberofjob
12          from staffs
13          group by departmentid))) ;
```

4. Write a query who earn less than the average salary in their departments. Show lastName, departmentID, salary, and the average salary of that department.

```
1 select lastname,departmentid,salary
2     from staffs s
3     where salary < ( select avg(salary)
4     from staffs t
5     where s.departmentid=t.departmentid ) ;
```

5. Display the managerID and the salary of the highest paid employee for that manager. ** show the employees's name as well

```
1
2 select managerid,salary ,lastname from staffs
3   where salary in ( select max(salary) from staffs) ;
```

```
1
2 select departmentname,departmentid from departments
3   natural join staffs
4   where salary < any ( select sum(salary)*1/5 from staffs
5   group by departmentid ) ;
```

7.Show the id of those employees who earn less than the average salary of the departments they work for.

```
1
2 select departmentid
3   from staffs s
4   where salary< (select avg(salary) from staffs t
5   where s.departmentid=t.departmentid) ;
```

8.Who is the oldest employee in the company? Show his current position, salary, working department and his immediate supervisor.

```
1
2 create table jobtime1
3   as
4   select lastname ,jobid,managerid,round((sysdate-hiredate),0)
5     as time
6   from staffs ;
7
8 select * from jobtime1
9   order by time desc
10  fetch first 1 rows only ;
```