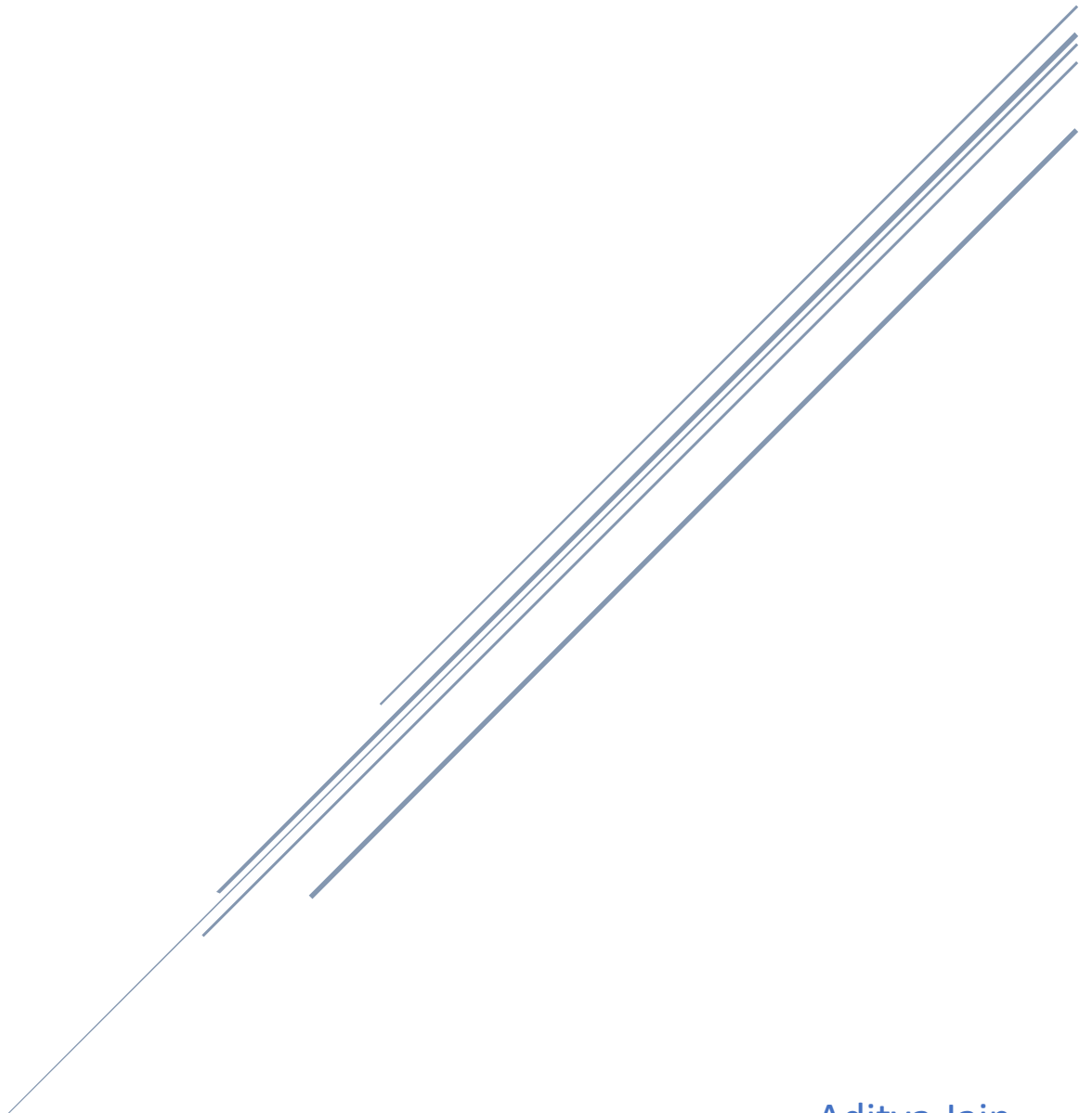


CSE-2007 ASSIGNMENT

Exercise-5



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Q1. Find the employee who is getting maximum salary in Research department

- select ssn,firstname,midname,lastname from employee natural join department where salary=(select max(salary) from employee natural join department where departmentname='Research' group by departmentnumber) and departmentname='Research';

```
SQL> select ssn,firstname,midname,lastname from employee natural join department where salary=(select max(salary) from employee natural join department where departmentname='Research' group by departmentnumber) and departmentname='Research';
```

SSN	FIRSTNAME	MI	LASTNAME
333445555	Frankin	T	Wong

Q2.Find the employees who earn the same salary as the minimum salary for each Department.

- select ssn,firstname,midname,lastname from employee natural join department where (departmentnumber,salary) in (select departmentnumber,min(salary) from employee group by departmentnumber);

```
SQL> select ssn,firstname,midname,lastname from employee natural join department where (departmentnumber,salary) in (select departmentnumber,min(salary) from employee group by departmentnumber);
```

SSN	FIRSTNAME	MI	LASTNAME
888665555	James	E	Borg
543216789	Joyce		PAN
453453453	Joyce	A	English
987987987	Ahmad	V	Jabbar
999887777	Alicia	J	Zelaya
554433221	Doug	E	Gilbert

6 rows selected.

Q3. Find the employee whose salary is greater than average salary of department 2

- select ssn,firstname,midname,lastname from employee where salary >(select avg(salary) from employee where departmentnumber=2 group by departmentnumber);

```
SQL> select ssn,firstname,midname,lastname from employee where salary >(select avg(salary) from employee where departmentnumber=2 group by departmentnumber);
```

SSN	FIRSTNAME	MI	LASTNAME
554433221	Doug	E	Gilbert

Q4. List out all the department names with their individual employees strength

- select departmentname,count(ssn) as STRENGTH from employee natural join department group by departmentnumber,departmentname;

```
SQL> select departmentname,count(ssn) as STRENGTH from employee natural join department group by departmentnumber,departmentname;
```

DEPARTMENTNAME	STRENGTH
Research	4
Manufacture	2
Headquarter	1
Administration	1
Finance	3

Q5. List out the department name having highest employee strength

- select departmentname from employee natural join department group by departmentnumber,departmentname having count(ssn)=(select max(cnt) from (select count(ssn)as cnt from employee natural join department group by departmentnumber));

```
SQL> select departmentname from employee natural join department group by departmentnumber,departmentname having count(ssn)=(select max(cnt) from (select count(ssn)as cnt from employee natural join department group by departmentnumber));
```

DEPARTMENTNAME
Research

Q6. List out all the departments and average salary drawn by their employees

- select departmentname,avg(salary) from employee natural join department group by departmentnumber,departmentname;

```
SQL> select departmentname,avg(salary) from employee natural join department group by departmentnumber,departmentname;
```

DEPARTMENTNAME	AVG(SALARY)
Research	33250
Manufacture	56500
Headquarter	80000
Administration	70000
Finance	31000

Q7. Find the maximum average salary for each department

- select max(AVG) from (select avg(salary) as AVG from employee group by departmentnumber);

```
SQL> select max(AVG) from (select avg(salary) as AVG from employee group by departmentnumber);
```

MAX(AVG)
80000

Note: Here I am finding the maximum out of all the average salaries for each departments.

- select departmentname,max(salary) as MAX,avg(salary) as AVG from employee natural join department group by departmentnumber,departmentname;

```
SQL> select departmentname,max(salary) as MAX,avg(salary) as AVG from employee natural join department group by departmentnumber,departmentname;
```

DEPARTMENTNAME	MAX	AVG
Research	40000	33250
Manufacture	58000	56500
Headquarter	80000	80000
Administration	70000	70000
Finance	43000	31000

Note: Here I am finding the maximum and average salaries for each department.