



A)

**select Fname from Employee
order by Fname asc;**

#	Fname
1	Ahmed
2	Alicia
3	Franklin
4	James
5	Jennifer
6	John
7	Joyce
8	Ramesh

B)

**select Dname,MAX(Salary) as Maximum_Salary from Employee inner join Department
on Employee.Dno= Department.Dnumber
group by Dname;**

Result Grid   Filter Rows:

#	Dname	Minimum_Salary
1	Administration	43000
2	Headquarters	55000
3	Research	40000

C)

**select Dname,Min(Salary) as Minimum_Salary from Employee inner join Department
on Employee.Dno= Department.Dnumber
where Dno != 1
group by Dname;**

#	Dname	Minimum_Salary
1	Administration	25000
2	Research	25000

D)

**select Distinct Dno As Available_Dno
from Department inner join Employee
on Employee.Dno = Department.Dnumber;**

#	Available_Dno
1	4
2	5
3	1

E)

**select Dno As Unavailable_Dno from Employee
where Dno NOT IN(select Dnumber from Department);**

#	Unavailable_Dno
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F)

**select concat(Fname,' ',Minit,' ',Lname) as Name,Salary from Employee
where Salary>(select Salary from Employee where fname ="John");**

#	Name	Salary
1	Franklin T Wong	40000
2	James E Borg	55000
3	Jennifer S Wallace	43000
4	Ramesh K Narayan	38000

G)

**select concat(Fname,' ',Minit,' ',Lname) as Name,Salary from Employee
where Salary>
(select min(Salary) from Employee where Fname like 'R%');**

#	Name	Salary
1	Franklin T Wong	40000
2	James E Borg	55000
3	Jennifer S Wallace	43000

H)

**select concat(e.Fname,' ',e.Minit,' ',e.Lname) as Employee_Name,
concat(s.Fname,' ',s.Minit,' ',s.Lname) as Supervisor_Name
from Employee e LEFT OUTER JOIN Employee s on e.Super_Ssn = s.Ssn;**

#	Employee_Name	Supervisor_Name
1	John B Smith	Franklin T Wong
2	Joyce A English	Franklin T Wong
3	Ramesh K Narayan	Franklin T Wong
4	Franklin T Wong	James E Borg
5	Jennifer S Wallace	James E Borg
6	Ahmed V Jabbar	Jennifer S Wallace
7	Alicia J Zelaya	Jennifer S Wallace
8	James E Borg	NULL

I)

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select concat(e.Fname,' ',e.Minit,' ',e.Lname) as Employee_Name,
concat(s.Fname,' ',s.Minit,' ',s.Lname) as Supervisor_Name
from Employee e RIGHT OUTER JOIN Employee s on e.Super_Ssn = s.Ssn;
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#	Employee_Name	Supervisor_Name
1	Ahmed V Jabbar	Jennifer S Wallace
2	Alicia J Zelaya	Jennifer S Wallace
3	Franklin T Wong	James E Borg
4	Jennifer S Wallace	James E Borg
5	John B Smith	Franklin T Wong
6	Joyce A English	Franklin T Wong
7	Ramesh K Narayan	Franklin T Wong
8	NULL	Ahmed V Jabbar
9	NULL	Alicia J Zelaya
10	NULL	John B Smith
11	NULL	Joyce A English
12	NULL	Ramesh K Nara...

J)

```
select concat(e.Fname,' ',e.Minit,' ',e.Lname) as Employee_Name,
concat(s.Fname,' ',s.Minit,' ',s.Lname) as Supervisor_Name
from Employee e LEFT OUTER JOIN Employee s on e.Super_Ssn = s.Ssn
UNION
select concat(e.Fname,' ',e.Minit,' ',e.Lname) as Employee_Name,
concat(s.Fname,' ',s.Minit,' ',s.Lname) as Supervisor_Name
from Employee e RIGHT OUTER JOIN Employee s on e.Super_Ssn = s.Ssn;
```

#	Employee_Name	Supervisor_Name
1	John B Smith	Franklin T Wong
2	Joyce A English	Franklin T Wong
3	Ramesh K Narayan	Franklin T Wong
4	Franklin T Wong	James E Borg
5	Jennifer S Wallace	James E Borg
6	Ahmed V Jabbar	Jennifer S Wallace
7	Alicia J Zelaya	Jennifer S Wallace
8	James E Borg	NULL
9	NULL	Ahmed V Jabbar
10	NULL	Alicia J Zelaya
11	NULL	John B Smith
12	NULL	Joyce A English
13	NULL	Ramesh K Nara...