

Name: Pinaki Ganguly

Dept: CSE

(a) List all employee names, dept name and the city, in department name order.

Ans. select e.ename,d.dname,d.loc from emp1 e join dept1 d on e.deptno=d.deptno order by dname;

ENAME	DNAME	LOC
CLARK	ACCOUNTING	NEW YORK
KING	ACCOUNTING	NEW YORK
MILLER	ACCOUNTING	NEW YORK
JONES	RESEARCH	DALLAS
FORD	RESEARCH	DALLAS
ADAMS	RESEARCH	DALLAS
SMITH	RESEARCH	DALLAS
SCOTT	RESEARCH	DALLAS
WARD	SALES	CHICAGO
TURNER	SALES	CHICAGO
ALLEN	SALES	CHICAGO
JAMES	SALES	CHICAGO
BLAKE	SALES	CHICAGO
MARTIN	SALES	CHICAGO

(b) List all employee name, dept number, dept name and salary.

Ans. select e.ename,d.deptno,d.dname,sal from emp1 e join dept1 d on e.deptno=d.deptno;

ENAME	DEPTNO	DNAME	SAL
SMITH	20	RESEARCH	800
ALLEN	30	SALES	1600
WARD	30	SALES	1250
JONES	20	RESEARCH	2975
MARTIN	30	SALES	1250
BLAKE	30	SALES	2850
CLARK	10	ACCOUNTING	2450
SCOTT	20	RESEARCH	3000
KING	10	ACCOUNTING	5000
TURNER	30	SALES	1500
ADAMS	20	RESEARCH	1100
JAMES	30	SALES	950
FORD	20	RESEARCH	3000
MILLER	10	ACCOUNTING	1300

(c) List all employees working in Dallas in descending order of salary.

Ans. select * from emp1 where deptno in (select deptno from dept1 where loc='DALLAS') order by sal desc;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7902	FORD	ANALYST	7566	12/03/1981	3000	-	20
7788	SCOTT	ANALYST	7566	12/09/1982	3000	-	20
7566	JONES	MANAGER	7839	04/02/1981	2975	-	20
7876	ADAMS	CLERK	7788	01/12/1983	1100	-	20

7369 SMITH CLERK 7902 12/17/1980 800 - 20

(d) List all employee's name, job, salary and department name for everyone in the company except clerks. Sort the report with respect to job and salary.

Ans. select e.ename,e.job,e.sal,d.dname from emp1 e join
dept1 d on e.deptno=d.deptno
where e.job not in 'CLERK' order by job,sal;

ENAME	JOB	SAL	DNAME
SCOTT	ANALYST	3000	RESEARCH
FORD	ANALYST	3000	RESEARCH
CLARK	MANAGER	2450	ACCOUNTING
BLAKE	MANAGER	2850	SALES
JONES	MANAGER	2975	RESEARCH
KING	PRESIDENT	5000	ACCOUNTING
WARD	SALESMAN	1250	SALES
MARTIN	SALESMAN	1250	SALES
TURNER	SALESMAN	1500	SALES
ALLEN	SALESMAN	1600	SALES

(e) List all employee names who work in the same city as an employee named 'FORD'.

Ans. select e.ename from emp1 e join dept1 d on e.deptno=d.deptno
where d.deptno in (select deptno from emp1 where ename='FORD');

ENAME
SMITH
JONES
SCOTT
ADAMS
FORD

(f) Display the name of the dept that has no employee.

Ans. select dname from dept1 where deptno not in(select deptno from
emp1);

DNAME
OPERATIONS

a) List the employees earns more than any employee in CHICAGO.

Ans. select * from emp1 where
sal>(select max(e.sal) from emp1 e join dept1 d on e.deptno=d.deptno
where d.loc='CHICAGO');

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7566	JONES	MANAGER	7839	04/02/1981	2975	-	20
7788	SCOTT	ANALYST	7566	12/09/1982	3000	-	20
7839	KING	PRESIDENT	-	11/17/1981	5000	-	-
10							
7902	FORD	ANALYST	7566	12/03/1981	3000	-	20

b) List the name of the employee who works in the same department as SMITH.

Ans. select e.ename from emp1 e join dept1 d on e.deptno=d.deptno
where d.dname in(select dname from dept1 where deptno in (select deptno
from emp1 where ename='SMITH'));

ENAME
SMITH
JONES
SCOTT
ADAMS
FORD

c) List the name, employee number ,their manager name and manager number.

Ans. select distinct e.ename,e.empno,e.mgr AS "Manager number",f.ename
AS "Manager Name"
from emp1 e join emp1 f on e.mgr=f.empno;

ENAME	EMPNO	Manager number	Manager Name
SCOTT	7788	7566	JONES
WARD	7521	7698	BLAKE
ADAMS	7876	7788	SCOTT
ALLEN	7499	7698	BLAKE
MILLER	7934	7782	CLARK
JAMES	7900	7698	BLAKE
MARTIN	7654	7698	BLAKE
JONES	7566	7839	KING
SMITH	7369	7902	FORD
TURNER	7844	7698	BLAKE
FORD	7902	7566	JONES
CLARK	7782	7839	KING
BLAKE	7698	7839	KING

d) List the name of the employee whose job is same as 'CLARK'.

Ans. select ename from emp1 where job=(select job from emp1 where
ename='CLARK');

ENAME
JONES
BLAKE
CLARK

e) List the name of employee whose salary is more than 'TURNER'.

Ans. select ename from emp1 where sal>(select sal from emp1 where
ename='TURNER');

ENAME
ALLEN
JONES
BLAKE
CLARK
SCOTT
KING
FORD

f) List the name of employee who joined after 'ALLEN'.

Ans. select ename from emp1 where hiredate>(select hiredate from emp1
where ename='ALLEN');

ENAME
WARD

JONES
MARTIN
BLAKE
CLARK
SCOTT
KING
TURNER
ADAMS
JAMES
FORD
MILLER

g) Display the name of the department whose job is 'SALESMAN'.
Ans. select dname from dept1 where deptno = (select distinct deptno
from emp1 where job='SALESMAN');

DNAME
SALES

h) Display the name of the department in which 'FORD' works.
Ans. select dname from dept1 where deptno in (select deptno from emp1
where ename='FORD');

DNAME
RESEARCH

i) Display the name of the department whose salary is maximum.
Ans. select dname from dept1 where deptno in (select deptno from emp1
where sal=(
select max(sal) from emp1));

DNAME
ACCOUNTING

j) Display the name of the city(location) in which 'SMITH' works.
Ans. select loc from dept1 where deptno =(select deptno from emp1 where
ename='SMITH');

LOC
DALLAS

k) Display the name of the city in which the manager works.
Ans. select loc from dept1 where deptno in (select deptno from emp1
where job='MANAGER');

LOC
DALLAS
CHICAGO
NEW YORK

l) Display the grade of the employee named 'MARTIN'.
Ans. select grade from salgrade where losal < (select sal from emp1
where ename='MARTIN')
and hisal > (select sal from emp1 where ename='MARTIN');

GRADE

m) List the employees earns more than every employee in 'DALLAS'.
 Ans. select * from emp1 where sal > (select max(sal) from emp1 where deptno in (select deptno from dept1 where loc='DALLAS'));

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT	-	11/17/1981	5000	-	-

n) Display the name of the department which has no employee.
 Ans. select dname from dept1 where deptno not in (select deptno from emp1);

DNAME
 OPERATIONS

o) List name, employee number and the name, employee number of their managers'
 manager .
 Ans. select e.ename, e.empno, m2.ename as "Manager Name", m2.empno as "Manager number"
 from emp1 e join emp1 m1 on e.mgr = m1.empno
 join emp1 m2 on m1.mgr = m2.empno;

ENAME	EMPNO	Manager Name	Manager number
SMITH	7369	JONES	7566
ADAMS	7876	JONES	7566
MILLER	7934	KING	7839
ALLEN	7499	KING	7839
WARD	7521	KING	7839
MARTIN	7654	KING	7839
TURNER	7844	KING	7839
JAMES	7900	KING	7839
SCOTT	7788	KING	7839
FORD	7902	KING	7839

p) list the name of the employee who joined in the same year of 'ADAMS'.
 Ans. select ename from emp1 where EXTRACT(YEAR FROM hiredate) in (select EXTRACT(YEAR FROM hiredate) from emp1 where ename='ADAMS');

ENAME
 ADAMS

q) list the name of the employee who joined in the same month of 'BLAKE'.
 Ans. select ename from emp1 where EXTRACT(MONTH FROM hiredate) in (select EXTRACT(MONTH FROM hiredate) from emp1 where ename='BLAKE');

ENAME
 BLAKE

r) list the name of the employee who joined in the same date of 'ADAMS'.
 Ans. select ename from emp1 where EXTRACT(DAY FROM hiredate) in

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(select EXTRACT(DAY FROM hiredate) from emp1 where ename='ADAMS');
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ENAME  
ADAMS
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s) List the name of the department who gets commission.

Ans. select d.dname from dept1 d join emp1 e on e.deptno=d.deptno
where e.comm is not null;

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DNAME  
SALES
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