SUB QUERIES WITH ANSWER

SQL QUERIES ON SUB-QUERIES AND JOIN

1. List the departments which does not have empyloyee at all. select dname from dept where deptno not in (select deptno from emp);

DNAME

OPERATIONS

2. Display all the employees whose job is same as scott.

SELECT * FROM EMP WHERE JOB = (SELECT JOB FROM EMP WHERE ENAME='SCOTT');

	EMPNO ENAI REDATE	ME JOB SAL COMN	MGR 1 DEPTNO	
87	7788 SCOTT 3000	ANALYST 20	7566 19-APR-	
	7902 FORD	ANALYST	7566 03-DEC-	
81	3000	20		

3. Display scott's manager's manager'S department name.

SELECT DNAME FROM DEPT WHERE DEPTNO IN(SELECT DEPTNO FROM EMP WHERE EMPNO IN(SELECT MGR 2 FROM EMP WHERE EMPNO IN(SELECT MGR FROM EMP WHERE ENAME='SCOTT')));

DNAME

ACCOUNTING

4.List employess whose job is same as scott and their salary greater than smith's salary.

SELECT * FROM EMP WHERE JOB =(SELECT JOB FROM EMP WHERE ENAME='SCOTT') AND SAL > (SELECT SAL FROM EMP WHERE ENAME='SMITH');

	EMPNO ENAM REDATE S	E JOB AL COMM	MGR DEPTNO	
87	7788 SCOTT 3000	ANALYST 20	7566 19-APR-	
	7902 FORD	ANALYST	7566 03-DEC-	
81	3000	20		

5. Display all the employees whose job is same as scott and allen.

SELECT * FROM EMP WHERE JOB IN (SELECT JOB FROM EMP WHERE ENAME IN('SCOTT','ALLEN'));

EMPNO ENAME JOB MGR HIREDATE SAL COMM **DEPTNO**

	7844 TURNER	SALESMAN	7698 08-SEP-	
81	1500 0	30		
	7654 MARTIN	SALESMAN	7698 28-SEP-	
81	1250 140	0 30		
	7521 WARD	SALESMAN	7698 22-FEB-	
81	1250 500	30		
	7499 ALLEN	SALESMAN	7698 20-FEB-	
81	1600 300	30		
	7902 FORD	ANALYST	7566 03-DEC-	
81	3000	20		
	7788 SCOTT	ANALYST	7566 19-APR-	
87	3000	20		

6. Display all employees who are actual managers.

select * from emp where empno in(select mgr from emp);

	EMPNO ENA	AME	JOB	MGR	
HIF	REDATE	SAL	COMM	DEPTNO	
	7566 IONE		ANACED	7920 02 ADD	
	1000 JOINES		ANAGER	7839 02-APR-	
81	2975		20		

	7698 BLAKE	MANAGER	7839 01-MAY-
81	2850	30	
	7782 CLARK	MANAGER	7839 09-JUN-
81	2450	10	
	7788 SCOTT	ANALYST	7566 19-APR-
87	3000	20	
	7839 KING	PRESIDENT	17-NOV-
81	5000	10	
	7902 FORD	ANALYST	7566 03-DEC-
81	3000	20	

7. Display who are all employees reporting to scott.

select * from emp where mgr=(select empno from emp where ename='SCOTT');

	EMPNO EN	AME	JOB	MGR	
HIF	REDATE	SAL	COMM	DEPTNO	
	7876 ADAM	IS C	LERK	7788 23-MAY-	
87	1100		20		

8. Select 2nd maximum salary.

SELECT MAX(SAL) FROM EMP WHERE SAL<(SELECT MAX(SAL) FROM EMP);

MAX(SAL) ------3000

9. select 3rd maximum salary.

SELECT MAX(SAL) FROM EMP WHERE SAL<(SELECT MAX(SAL) FROM EMP WHERE SAL<(SELECT MAX(SAL) FROM EMP));

MAX(SAL) ------2975

10. Display all the employees who earn more than all the managers (job).

select * from emp where sal> all (select sal from emp where job='MANAGER');

	EMPNO ENAN		MGR	
HI	REDATE S	SAL COMM	DEPTNO	
	7788 SCOTT	ANALYST	7566 19-APR-	
87	3000	20		
	7839 KING	PRESIDENT	17-NOV-	
81	5000	10		
	7902 FORD	ANALYST	7566 03-DEC-	
81	3000	20		

11. Display all the employees who earn more than any the managers (job).

select * from emp where sal> any (select sal from emp where job='MANAGER');

_		MGR DEPTNO	
7000 KINO	DDECIDENT	47 NOV	
	_	17-NOV-	
7902 FORD	ANALYST	7566 03-DEC-	
3000	20		
		7566 19-APR-	
		7020 02 ADD	
		7039 UZ-APR-	
7698 BLAKE	MANAGER	7839 01-MAY-	
2850	30		
	7839 KING 5000 7902 FORD 3000 7788 SCOTT 3000 7566 JONES 2975 7698 BLAKE	7839 KING PRESIDENT 5000 10 7902 FORD ANALYST 3000 20 7788 SCOTT ANALYST 3000 20 7566 JONES MANAGER 2975 20 7698 BLAKE MANAGER	7839 KING PRESIDENT 17-NOV- 5000 10 7902 FORD ANALYST 7566 03-DEC- 3000 20 7788 SCOTT ANALYST 7566 19-APR- 3000 20 7566 JONES MANAGER 7839 02-APR- 2975 20 7698 BLAKE MANAGER 7839 01-MAY-

12. Display empno, job and salary of all the analyst who are earning more than any of the manager

select empno,job,sal from emp where job='ANALYST' and sal>any(select sal from emp where job='MANAGER');

EMPNO JOB	SAL
7902 ANALYST	3000

13.select the department name and location of all employees working for clark

select dname,loc from dept where deptno in(select deptno from emp where mgr in(select empno from emp where ename='CLARK'));

DNAME LOC
-----ACCOUNTING NEW YORK

14. select all the employees working in dallas.

select * from emp where deptno in(select deptno from dept where loc='DALLAS')

EMPNO ENAM HIREDATE	IE JOB SAL COM 	MGR M DEPTNO	
7369 SMITH	CLERK	7902 17-DEC-	
80 800	20		
7566 JONES	MANAGER	7839 02-APR-	
81 2975	20		
7788 SCOTT	ANALYST	7566 19-APR-	
87 3000	20		
7876 ADAMS	CLERK	7788 23-MAY-	
87 1100	20		
7902 FORD	ANALYST	7566 03-DEC-	
81 3000	20		

15. Display all the employees whose salary is greater than average salary of deartment 20.

select * from emp where sal>(select avg(sal) from emp where deptno=20);

	EMPNO ENAN REDATE S		MGR DEPTNO	
	7566 JONES	MANAGER	7839 02-APR-	
81	2975	20		
	7698 BLAKE	MANAGER	7839 01-MAY-	
81	2850	30		
	7782 CLARK	MANAGER	7839 09-JUN-	
81	2450	10		
	7788 SCOTT	ANALYST	7566 19-APR-	
87	3000	20		
	7839 KING	PRESIDENT	17-NOV-	
81	5000	10		
	7902 FORD	ANALYST	7566 03-DEC-	
81	3000	20		

16.select all the employees who gets maximum salary. select * from emp where sal=(select max(sal) from emp);

	EMPNO ENA	AME	JOB	MGR	
HIF	REDATE	SAL	COMM	DEPTNO	
	,				
	7839 KING	PRF	SIDENT	17-NOV-	
81			10	17 140 4	

17. Display first employee record based on hiredate.

select * from emp where hiredate=(select min(hiredate) from emp);

	EMPNO ENA REDATE			MGR DEPTNO	
80	7369 SMITH 800	CL	ERK 20	7902 17-DEC-	

18.list the employees who have salary greater than Allen.

select * from emp where sal >(select sal from emp where ename='ALLEN');

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

0.4	7566 JONES	MANAGER	7839 02-APR-
81	2975	20	
	7698 BLAKE	MANAGER	7839 01-MAY-
81	2850	30	
	7782 CLARK	MANAGER	7839 09-JUN-
81	2450	10	
	7788 SCOTT	ANALYST	7566 19-APR-
87	3000	20	
	7839 KING	PRESIDENT	17-NOV-
81	5000	10	
	7902 FORD	ANALYST	7566 03-DEC-
81	3000	20	

19.list the daprtment names which are having analysts.

select dname from dept where deptno in(select deptno from emp where job ='ANALYST')

DNAME

RESEARCH

20.List the department names which have salesman in it.

select dname from dept where deptno in(select deptno from emp where job='SALESMAN')

DNAME

SALES

21.Display the employees whose location which has atleast one o in it.

select * from emp where deptno in (select deptno from dept where loc like '%O%');

	EMPNO EN	AME	JOB	MGR	
HIF	REDATE	SAL	COMM	DEPTNO	
	7499 ALLEN	N SA	LESMAN	7698 20-FEB-	
81	1600	300	30		

	7521 WARD	SALESMAN	7698 22-FEB-
81	1250 50	00 30	
	7654 MARTIN	SALESMAN	7698 28-SEP-
81	1250 14	00 30	
	7698 BLAKE	MANAGER	7839 01-MAY-
81	2850	30	
	7782 CLARK	MANAGER	7839 09-JUN-
81	2450	10	
	7839 KING	PRESIDENT	17-NOV-
81	5000	10	
	7844 TURNER	SALESMAN	7698 08-SEP-
81	1500	0 30	
	7900 JAMES	CLERK	7698 03-DEC-
81	950	30	
	7934 MILLER	CLERK	7782 23-JAN-
82	1300	10	

22.List the department names that are having at least one employee in it.

select dname from dept where deptno in (select deptno from emp group by deptno having count(*)>=1)

DNAME

SALES

RESEARCH

ACCOUNTING

23.list the department names having atleast 4 employees in it. select dname from dept where deptno in (select deptno from emp group by deptno having count(*)>=4);

DNAME

SALES

RESEARCH

24. Display the department names which are having at least 2 Clerks in it.

select dname from dept where deptno in(select deptno from emp where job='CLERK' group by deptno having count(*) >=2);

DNAME

RESEARCH

25. Query to display the employee names who is having maximum salary in Dept Name "Accounting"

SELECT ENAME FROM EMP WHERE SAL = (SELECT MAX(SAL) FROM EMP WHERE DEPTNO =(SELECT DEPTNO FROM DEPT WHERE DNAME='ACCOUNTING'));

ENAME

KING

26. Query to display the Dept Name who is having Highest Commission

SELECT DNAME FROM DEPT WHERE DEPTNO = (SELECT DEPTNO FROM EMP WHERE COMM = (SELECT MAX(COMM) FROM EMP));

DNAME

SALES

27. Query to display all the employees whose Dept Number is same as Scott.

SELECT * FROM EMP WHERE DEPTNO = (SELECT DEPTNO FROM EMP WHERE ENAME = 'SCOTT');

	EMPNO ENA REDATE	ME SAL	JOB COMM	MGR DEPTNO	
	 7369 SMITH	CL	 ERK	7902 17-DEC-	
80	800		20		
	7566 JONES	S M	ANAGER	7839 02-APR-	
81	2975		20		
	7788 SCOT	ΙΑ Τ	NALYST	7566 19-APR-	
87	3000		20		

	7876 ADAMS	CLERK	7788 23-MAY-
87	1100	20	
	7902 FORD	ANALYST	7566 03-DEC-
81	3000	20	

28. Display all the employees in 'Operations and Accounting' Dept. list the employees who has salary greater than miller

SELECT * FROM EMP WHERE DEPTNO IN (SELECT DEPTNO FROM DEPT WHERE DNAME IN ('OPERATIONS','ACCOUNTING')) AND SAL > (SELECT SAL FROM EMP WHERE ENAME ='MILLER');

	EMPNO ENAM REDATE S		MGR DEPTNO	
81	7782 CLARK 2450	MANAGER 10	7839 09-JUN-	
81	7839 KING 5000	PRESIDENT 10	17-NOV-	

29. List department name having atleast 3 salesman SELECT DNAME FROM DEPT WHERE DEPTNO IN(SELECT DEPTNO FROM EMP WHERE JOB='SALESMAN' GROUP BY DE PTNO HAVING COUNT(*)>=3);

DNAME -----SALES

30.Display all employess who do not have any reporter. select * from emp where mgr is null; king

31. display all the employees who are not managers.

SELECT * FROM EMP WHERE EMPNO NOT IN (SELECT MGR FROM EMP WHERE MGR IS NOT NULL);

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

7369 SN	MITH	CLERK		7902 17-[DEC-
80 80	00	20)		
7499 AL	LEN	SALESI	MAN	7698 2	20-FEB-
81 16	300	300	30		
7521 W	ARD	SALES	MAN	7698 2	22-FEB-
81 12	250 5	500	30		
7654 M	ARTIN	SALES	MAN	7698	28-SEP-
81 12	250 1	400	30		
7844 TU	JRNER	SALES	SMAN	7698	08-SEP-
81 15	500	0 3	30		
7876 AI	DAMS	CLERK		7788 23	-MAY-
87 11	00	2	0		
7900 JA	MES	CLERK		7698 03-	DEC-
81 9	50	30)		
7934 M	ILLER	CLERK		7782 23-	JAN-
82 13	300	1	0		

31.List all the employees who are reporting to jones manager

SELECT * FROM EMP WHERE empno =(SELECT mgr FROM EMP WHERE ENAME ='JONES');

	EMPNO ENAMI REDATE SA		MGR DEPTNO
87	7788 SCOTT 3000	ANALYST 20	7566 19-APR-
81	7902 FORD 3000	ANALYST 20	7566 03-DEC-

32. list employees from research&accounting having atleast 2 reporting.

SELECT * FROM EMP WHERE DEPTNO IN(SELECT DEPTNO FROM DEPT WHERE DNAME IN ('RESEARCH','ACCOUNTING')) AND EMPNO IN (SELECT MGR FROM EMP GROUP BY MGR HAVING COUNT(*)>=2);

EMPNO EN	AME	JOB	MGR	
HIREDATE	SAL	COMM	DEPTNO	

	7839 KING	PRESIDENT	17-NOV-
81	5000	10	
	7566 JONES	MANAGER	7839 02-APR-
81	2975	20	

33. Display the departname of the employee whose name starts with S and salary between 1500 to 3000.

SELECT DNAME FROM DEPT WHERE DEPTNO IN (SELECT DEPTNO FROM EMP WHERE ENAME LIKE 'S%' AND SAL BETWEEN 1500 AND 3000);

DNAME

RESEARCH

34. Display location of employee whose salary is minimum salary but salary is greater than 2000

SELECT LOC FROM DEPT WHERE DEPTNO IN (SELECT DEPTNO FROM EMP WHERE SAL IN(SELECT MIN(SAL) FROM EMP WHERE SAL>2000));

LOC

NEW YORK

35.Display the location of an employee in accounting department. SELECT LOC FROM DEPT WHERE DEPTNO = (SELECT DEPTNO FROM DEPT WHERE DNAME='ACCOUNTING');

LOC

NEW YORK

36. Display the department location that are having greater than four employees in it.

SELECT LOC FROM DEPT WHERE DEPTNO IN (SELECT DEPTNO FROM EMP GROUP BY DEPTNO HAVING COUNT(*)>4);

LOC

CHICAGO

37. Write a query to display all the employee whose job not same as Allen and salary is greater than Martin.

select * from emp where Job !=(select job from emp where ename='ALLEN') AND SAL >(SELECT SAL FROM EMP WHERE ENAME='MARTIN');

HIE	EMPNO ENAM REDATE S	IE JOB SAL COMM	MGR DEPTNO	
	7566 JONES	MANAGER	7839 02-APR-	
81	2975	20		
	7698 BLAKE	MANAGER	7839 01-MAY-	
81	2850	30		
	7782 CLARK	MANAGER	7839 09-JUN-	
81	2450	10		
	7788 SCOTT	_	7566 19-APR-	
87	3000	20		
	7839 KING	PRESIDENT	17-NOV-	
81	5000	10		
	7902 FORD	_	7566 03-DEC-	
81	3000	20	7700 00 1441	
00	7934 MILLER	CLERK	7782 23-JAN-	
82	1300	10		

38. Display all the employees who is having location same as Adam's manager.

SELECT * FROM EMP WHERE DEPTNO =(SELECT DEPTNO FROM DEPT WHERE LOC =(SELECT LOC FROM DEPT WHERE DEPTNO =(SELECT DEPTNO FROM EMP WHERE EMPNO = (SELECT MGR FROM EMP WHERE ENAME='ADAMS'))));

	EMPNO ENA	ME	JOB	MGR	
HIF	REDATE	SAL	COMM	DEPTNO	
	7369 SMITH	CL	ERK	7902 17-DEC-	
80	800		20		

	7566 JONES	MANAGER	7839 02-APR-
81	2975	20	
	7788 SCOTT	ANALYST	7566 19-APR-
87	3000	20	
	7876 ADAMS	CLERK	7788 23-MAY-
87	1100	20	
	7902 FORD	ANALYST	7566 03-DEC-
81	3000	20	

39. Display the job, manager of employees who is working for Jones SELECT JOB, ENAME, MGR FROM EMP WHERE MGR = (SELECT EMPNO FROM EMP WHERE ENAME='JONES');

JOB	EN	NAME	MGR
ANALY	 /ST	SCOTT	 7566
ANALY	/ST	FORD	7566

40. Display the employee names, higher date, commission of Ford's manager

SELECT ENAME, HIREDATE, COMM FROM EMP WHERE EMPNO = (SELECT MGR FROM EMP WHERE ENAME = 'FORD');

ENAME	HIREDATE	COMM
JONES	02-APR-81	

41. Display the number of employees who are getting salary less then Blake's MANAGER salary.

SELECT COUNT(ENAME) FROM EMP WHERE SAL<(SELECT SAL FROM EMP WHERE EMPNO=(SELECT MGR FROM EMP WHERE ENAME='BLAKE'));

COUNT(ENAME)
-----13

42.List the employess who are located in chicago and their commission is zero.

SELECT COUNT(*) FROM EMP WHERE COMM=0 AND DEPTNO IN (SELECT DEPTNO FROM DEPT WHERE LOC='CHICAGO'); COUNT(*)

1

43.List employees who work for sales department and their salary greater than average salary of their department.

SELECT * FROM EMP WHERE DEPTNO = (SELECT DEPTNO FROM DEPT WHERE DNAME='SALES') AND SAL > ANY (SELECT

AVG(SAL) FROM EMP GROUP BY DEPTNO);

	EMPNO ENAI REDATE			MGR DEPTNO	
	7499 ALLEN	SA	LESMAN	7698 20-FEB-	
81	1600	300	30		
	7698 BLAKE	MA	NAGER	7839 01-MAY-	
81	2850		30		

44.List employees who are working in research department and they are manager.

SELECT ENAME FROM EMP WHERE DEPTNO =(SELECT DEPTNO FROM DEPT WHERE DNAME='RESEARCH') AND EMPNO IN (SELECT MGR FROM EMP);

ENAME

JONES

SCOTT

FORD

45. Display department name of the employees who earn commission.

SELECT DNAME FROM DEPT WHERE DEPTNO IN (SELECT DEPTNO FROM EMP WHERE COMM IS NOT NULL);

DNAME

46. Display department name of the employee who earn maximum salary and have no reporting manager.

SELECT DNAME FROM DEPT WHERE DEPTNO IN (SELECT DEPTNO FROM EMP WHERE MGR IS NULL AND SAL=(SELECT MAX(SAL) FROM EMP));

DNAME

ACCOUNTING

47. Display employee details who are reporting to blake and have commission without using null or not null.

SELECT * FROM EMP WHERE MGR IN (SELECT EMPNO FROM EMP WHERE ENAME='BLAKE') AND COMM IS NOT NULL;

	EMPNO EN REDATE	AME SAL	JOB COMM	MGR DEPTNO	
	7499 ALLEI	N S	ALESMAN	7698 20-FEB-	
81	1600	300	30		
	7521 WAR	o s	SALESMAN	7698 22-FEB-	
81	1250	500	30		
	7654 MART	IN S	SALESMAN	7698 28-SEP-	
81	1250	1400	30		
	7844 TURN	IER	SALESMAN	7698 08-SEP-	
81	1500	0	30		

48.List all the deprtnaments and loc of all the salesman's manager's manager.

SELECT DNAME ,LOC FROM DEPT WHERE DEPTNO IN(SELECT DEPTNO FROM EMP WHERE EMPNO IN(SELECT MGR

FROM EMP WHERE EMPNO IN(SELECT MGR FROM EMP WHERE JOB='SALESMAN')));

DNAME LOC
-----ACCOUNTING NEW YORK

49.List the employee deptname and loc of all the employees who are clerk ,reporting to blake and salary is lesser than martin salary

SELECT DNAME, LOC FROM DEPT WHERE DEPTNO IN (SELECT DEPTNO FROM EMP WHERE JOB='CLERK' AND MGR IN (SELECT EMPNO FROM EMP WHERE ENAME='BLAKE')

AND SAL<(SELECT SAL FROM EMP WHERE

ENAME='MARTIN'));

DNAME LOC

SALES CHICAGO

50.List the employees who does not directly report to president, have commission and salary more than max salary of all the clerk without using null or not null.

SELECT ENAME FROM EMP WHERE MGR != (SELECT EMPNO FROM EMP WHERE JOB='PRESIDENT') AND COMM IS NOT NULL

AND SAL> ALL(SELECT MAX(SAL) FROM EMP WHERE JOB='CLERK');

no rows selected

51. List the employees who joined after 2 years of first employee of the company and more than blake salary.

SELECT * FROM EMP WHERE HIREDATE>ALL(SELECT MIN(HIREDATE)+(365*2) FROM EMP) AND SAL>(SELECT SAL FROM EMP WHERE ENAME='BLAKE');

EMPNO ENAME JOB MGR

HIREDATE SAL COMM DEPTNO

7788 SCOTT ANALYST 7566 19-APR-87 3000 20

52. Display location of all the employees who are reporting to Blake. SELECT LOC FROM DEPT WHERE DEPTNO IN(SELECT DEPTNO FROM EMP WHERE MGR =(SELECT EMPNO FROM EMP WHERE ENAME='BLAKE'));

LOC

53. List all the employees whose job is same as jones and their salary lesser than scott.

SELECT * FROM EMP WHERE JOB=(SELECT JOB FROM EMP WHERE ENAME='JONES') AND SAL<(SELECT SAL FROM EMP WHERE ENAME='SCOTT');

	EMPNO ENAN REDATE S	ME JOB SAL COMM 	MGR DEPTNO	
01	7566 JONES		7839 02-APR-	
81	2975 7698 BLAKE	20 MANAGER	7839 01-MAY-	
81	2850 7782 CLARK	30 MANAGER	7839 09-JUN-	
81	2450	10		

54. Display the king's first year salary and his location with department.

SELECT SAL*12 AS fIRST_YEAR_SAL, DNAME, LOC FROM EMP, DEPT WHERE EMP. DEPTNO=DEPT. DEPTNO AND ENAME='KING';

55. Display all the employees of department 30, 20 with their anual salary and having atleast 3 employees.

SELECT SAL*12 AS ANUAL_SAL, ENAME FROM EMP WHERE DEPTNO IN(20,30) AND DEPTNO IN (SELECT DEPTNO FROM EMP GROUP BY DEPTNO HAVING COUNT(*)>=3);

ANUAL_SAL ENAME ------11400 JAMES 18000 TURNER 34200 BLAKE 15000 MARTIN 15000 WARD 19200 ALLEN 36000 FORD 13200 ADAMS 36000 SCOTT 35700 JONES 9600 SMITH

- 56. Display department name which is having second highest average salary and third highest induvidul salary.
- 57. Display all the employees who are earning less than any of the salesman.

SELECT * FROM EMP WHERE SAL < ANY(SELECT SAL FROM EMP WHERE JOB='SALESMAN');

EMPNO ENAME	E JOB	MGR
HIREDATE	SAL COM	M DEPTNO
7369 SMITH	CLERK	7902 17-DEC-
80 800	20	
7900 JAMES	CLERK	7698 03-DEC-
81 950	30	
7876 ADAMS	CLERK	7788 23-MAY-
87 1100	20	
7521 WARD	SALESMAN	7698 22-FEB-
81 1250	500 30	
7654 MARTIN	SALESMAN	7698 28-SEP-
81 1250	1400 30	
7934 MILLER	CLERK	7782 23-JAN-
82 1300	10	
7844 TURNER	SALESMAN	7698 08-SEP-
81 1500	0 30	

58.Display all the employees who are joined before the last person SELECT * FROM EMP WHERE HIREDATE < (SELECT MAX(HIREDATE) FROM EMP);

EMPNO ENAM	E JOB	MGR
HIREDATE	SAL COMI	M DEPTNO
7369 SMITH	 CLERK	
80 800		
7499 ALLEN	SALESMAN	7698 20-FEB-
81 1600	300 30	
7521 WARD	SALESMAN	7698 22-FEB-
81 1250		
		7839 02-APR-
81 2975		
		7698 28-SEP-
81 1250		7000 04 8443/
		7839 01-MAY-
81 2850		7000 00 11 151
		7839 09-JUN-
81 2450		7566 10 ADD
		7566 19-APR-
87 3000 7839 KING		17-NOV-
81 5000		17-1100-
		7698 08-SEP-
81 1500		7 000 00 02.
7900 JAMES		7698 03-DEC-
81 950		
7902 FORD	ANALYST	7566 03-DEC-
81 3000	20	
7934 MILLER	CLERK	7782 23-JAN-
82 1300	10	

59. Display last but one employee record

select * from emp where hiredate =(select Max(hiredate from emp where hiredate<(select Max(hiredate) from emp));
select * from emp where hiredate =(select Max(hiredate) from emp where hiredate =(select Max(hiredate) from emp where hiredate<(select Max(hiredate) from emp))

EMPNO ENAM HIREDATE S	IE JOB SAL COMM	MGR	
DEPTNO			
7788 SCOTT	ANALYST	7566 19-APR-87	3000

60. Find third minimum salary in the employee table

SELECT MIN(SAL) FROM EMP WHERE SAL > (SELECT MIN(SAL) FROM EMP WHERE SAL > (SELECT MIN(SAL) FROM EMP));

MIN(SAL) -----1100

61. Display all the employees who are earning more than any of the manager.

select * from emp where sal > ANY (select sal from emp where job ='MANAGER');

EMPNO ENAM		MGR	
HIREDATE	SAL COM	M DEPTNO	
7839 KING	PRESIDENT		
81 5000	10	17 110 1	
7902 FORD	ANALYST	7566 03-DEC-	
81 3000	20		
7788 SCOTT	ANALYST	7566 19-APR-	
87 3000	20	7000 00 400	
7566 JONES 81 2975	MANAGER	7839 02-APR-	
81 2975 7698 BLAKE	20 MANAGER	7839 01-MAY-	
81 2850	30	7000 01 101/(1	

SQL> select * from emp where sal > ANY (select sal FROM EMP WHERE EMPNO IN (SELECT MGR FROM EMP));

EMPNO ENAME JOB MGR HIREDATE SAL COMM						
DEPTNO			•			
7839 KING 10	PRESIDENT	17-NOV-81	5000			
7902 FORD 20	ANALYST	7566 03-DEC-81	3000			
7788 SCOTT 20	ANALYST	7566 19-APR-87	3000			
	EMPNO ENAME JOB MGR HIREDATE SAL COMM					
DEPTNO						
7566 JONES 20	MANAGER	7839 02-APR-81	2975			
7698 BLAKE 30	MANAGER	7839 01-MAY-81	2850			

62. List employees who joined after 4 years of 1st employee of the company and less than blake salary.

SELECT ENAME FROM EMP WHERE HIREDATE > (SELECT MIN(HIREDATE)+(365*4) FROM EMP) AND SAL< (SELECT SAL FROM EMP WHERE ENAME='BLAKE');

ENAME

ADAMS

63. Display the department information of employee who is working for newyork location.

SELECT DNAME, DEPTNO FROM DEPT WHERE LOC ='NEW YORK'

DNAME	DEPTNO
ACCOUNTING	10

64. Display the salary wise employee information for deptno 20 in descending order

SELECT * FROM EMP WHERE DEPTNO=20 ORDER BY SAL DESC:

НІ	EMPNO ENAM REDATE S	E JOB AL COMM	MGR DEPTNO	
	7788 SCOTT	ANALYST	 7566 19-APR-	
87	3000	20		
	7902 FORD	ANALYST	7566 03-DEC-	
81	3000	20		
	7566 JONES	MANAGER	7839 02-APR-	
81	2975	20		
	7876 ADAMS	CLERK	7788 23-MAY-	
87	1100	20		
	7369 SMITH	CLERK	7902 17-DEC-	
80	800	20		

65. Display second employee record
SELECT * FROM EMP WHERE HIREDATE IN (SELECT
MIN(HIREDATE) FROM EMP WHERE HIREDATE > (SELECT
MIN(HIREDATE) FROM EMP));

	EMPNO ENA	ME	JOB	MGR	
HII	REDATE	SAL	COMM	DEPTNO	
	7499 ALLEN	SA	LESMAN	7698 20-FEB-	
81	1600	300	30		

66. Display location of employees, whose name start with A and salary between 1000 and 3000.

SELECT LOC FROM EMP, DEPT WHERE EMP. DEPTNO=DEPT. DEPTNO AND ENAME LIKE 'A%' AND SAL BETWEEN 1000 AND 3000:

LOC

CHICAGO

DALLAS

67. Display department name of all the employees who are reporting to Blake.

SELECT DNAME FROM DEPT WHERE DEPTNO IN (SELECT DEPTNO FROM EMP WHERE MGR IN (SELECT EMPNO FROM EMP WHERE ENAME='BLAKE'));

DNAME

SALES

68.Display Martin's Manager's Manager's department location SELECT DNAME, LOC FROM DEPT WHERE DEPTNO = (SELECT DEPTNO FROM EMP WHERE EMPNO IN (SELECT MGR FROM EMP WHERE EMPNO IN (SELECT MGR FROM EMP WHERE ENAME ='MARTIN')));

DNAME LOC

ACCOUNTING NEW YORK

69. Display the employee name and their salary who joined 2 years before the last person hired.

SELECT ENAME, SAL FROM EMP WHERE HIREDATE IN (SELECT MAX(HIREDATE)-(365*2) FROM EMP);

ENAME	SAL
SMITH	800
ALLEN	1600
WARD	1250
JONES	2975
MARTIN	1250
BLAKE	2850

CLARK	2450
KING	5000
TURNER	1500
JAMES	950
FORD	3000
MILLER	1300

70. Display the employee name, job and department for those who don't have commission

SELECT ENAME, JOB, DNAME, E. DEPTNO FROM EMP E, DEPT D WHERE E. DEPTNO=D. DEPTNO AND E. COMM IS NULL ENAME JOB DNAME DEPTNO

SMITH	CLERK RESEARCH	20
JONES	MANAGER RESEARCH	20
BLAKE	MANAGER SALES	30
CLARK	MANAGER ACCOUNTING	10
SCOTT	ANALYST RESEARCH	20
KING	PRESIDENT ACCOUNTING	10
ADAMS	CLERK RESEARCH	20
JAMES	CLERK SALES	30
FORD	ANALYST RESEARCH	20
MILLER	CLERK ACCOUNTING	10

71. Display the employee details with their location who earn maximum commission
SELECT * FROM EMP, DEPT WHERE
EMP. DEPTNO=DEPT. DEPTNO AND COMM IN (SELECT MAX(COMM) FROM EMP);

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO DNAME LOC

----- -------

765	4 MARTIN	SALE	ESMAN	7698 28-SE	EP-
81	1250	1400	30	30 SALES	CHICAGO

72. Display all the employee whose department is sales and who is earning some commission (i.e commission is not null or zero)and whose

hired before the last person hired.

SQL> SELECT * FROM EMP WHERE COMM IS NOT NULL AND HIREDATE <(SELECT MAX(HIREDATE) FROM EMP)

2 AND DEPTNO IN(SELECT DEPTNO FROM DEPT WHERE DNAME='SALES');

HIF	EMPNO EN/ REDATE	AME SAL	JOB COMM	MGR DEPTNO	
	7499 ALLEN	N SA	ALESMAN	 7698 20-FEB-	
81	1600	300	30		
	7521 WARD) S	ALESMAN	7698 22-FEB-	
81	1250	500	30		
	7654 MART	IN S	ALESMAN	7698 28-SEP-	
81	1250	1400	30		
	7844 TURN	ER S	SALESMAN	7698 08-SEP-	
81	1500	0	30		

73. Display all the department names and manager who is ward's manager's manager.

SELECT DNAME,MGR FROM EMP E,DEPT D WHERE E.DEPTNO= D.DEPTNO AND EMPNO IN (SELECT MGR FROM EMP W

HERE EMPNO IN (SELECT MGR FROM EMP WHERE ENAME='WARD'));

DNAME MGR
-----ACCOUNTING

74. Display department names and maximum commission of employee's whose salary is greater than average salary of all the clerk's

SELECT D.DNAME,MAX(E.COMM) FROM EMP E,DEPT D WHERE E.DEPTNO=D.DEPTNO AND E.SAL> ALL(SELECT AVG(SAL) FROM EMP where JOB='CIERK' GROUP BY JOB);

75. Display the last employee record with location.
SELECT ENAME,LOC FROM EMP E,DEPT D WHERE
E.DEPTNO=D.DEPTNO AND HIREDATE =(SELECT
MAX(HIREDATE)
FROM EMP);

ENAME LOC
-----ADAMS DALLAS

76. Display the department number who working in sales department and they are manager.

SELECT DEPTNO FROM DEPT WHERE DEPTNO IN(SELECT DEPTNO FROM DEPT WHERE DNAME='SALES') AND DEPTNO IN

(SELECT DEPTNO FROM EMP WHERE JOB='MANAGER');

DEPTNO -----30

77. Display department name of the employee who earn minmum salary and have reporting manager.

SELECT DNAME FROM DEPT WHERE DEPTNO IN(SELECT DEPTNO FROM EMP WHERE
SAL -(SELECT MIN(SAL) FROM EMP WHERE MGR IS NOT

SAL =(SELECT MIN(SAL) FROM EMP WHERE MGR IS NOT NULL))

DNAME

RESEARCH

78. Display hiredate and Dname of all the employees working for sales

SELECT D.DNAME, E.HIREDATE FROM EMP E, DEPT D WHERE E.DEPTNO=D.DEPTNO AND E.DEPTNO IN (SELECT DEPTNO FROM DEPT WHERE DNAME='SALES')

DNAME	HIREDATE
SALES	20-FEB-81
SALES	22-FEB-81
SALES	28-SEP-81
SALES	01-MAY-81
SALES	08-SEP-81
SALES	03-DEC-81

79. Display Location and Dname of employee who is working as president.

SELECT DNAME,LOC FROM DEPT WHERE DEPTNO=(SELECT DEPTNO FROM EMP WHERE JOB='PRESIDENT');

DNAME LOC

ACCOUNTING NEW YORK\

80. Display the Dname of employees whoes salary is maximum salary but lesser than 3000

SELECT DNAME FROM DEPT WHERE DEPTNO IN (SELECT DEPTNO FROM EMP WHERE SAL IN (SELECT MAX(SAL) FROM EMP WHERE SAL IN(SELECT SAL FROM EMP WHERE SAL<3000)));

SQL> SELECT DNAME FROM DEPT WHERE DEPTNO IN (SELECT DEPTNO FROM EMP WHERE SAL IN (SELECT MAX(SAL) FR
OM EMP WHERE SAL< 3000));

DNAME

RESEARCH

81.Display the department name who are reporting to ADAMS SELECT DNAME FROM DEPT WHERE DEPTNO IN (SELECT DEPTNO FROM EMP WHERE MGR IN(SELECT EMPNO FROM EMP WHERE ENAME='ADAMS'));

no rows selected

82. Display last employee record.

SELECT * FROM EMP WHERE HIREDATE IN (SELECT MAX(HIREDATE) FROM EMP);

	EMPNO ENA	AME	JOB	MGR	
HIF	REDATE	SAL	COMM	DEPTNO	
	7876 ADAM	s c	LERK	7788 23-MAY-	
87	1100		20		

83. Display all the employee whose salary is greater than average salary of department 30.

SELECT * FROM EMP WHERE SAL>(SELECT AVG(SAL) FROM EMP WHERE DEPTNO=30);

HIF	EMPNO ENAM REDATE S		MGR DEPTNO	
	7499 ALLEN	SALESMAN	7698 20-FEB-	
81	1600 3	00 30		
	7566 JONES	MANAGER	7839 02-APR-	
81	2975	20		
	7698 BLAKE	MANAGER	7839 01-MAY-	
81	2850	30		
	7782 CLARK	MANAGER	7839 09-JUN-	
81	2450	10		
	7788 SCOTT	ANALYST	7566 19-APR-	
87	3000	20		
	7839 KING	PRESIDENT	17-NOV-	
81	5000	10		
	7902 FORD	ANALYST	7566 03-DEC-	
81	3000	20		

84. Display the number of employees who work for research dept and their salary is lesser than one of the salary in department in 10. SELECT COUNT(*) FROM EMP WHERE DEPTNO IN(SELECT DEPTNO FROM DEPT WHERE DNAME='RESEARCH') AND SAL< ANY(SELECT SAL FROM EMP WHERE DEPTNO=10);

COUNT(*) -----5

85. Display the dname that are having clerk in it.

SELECT DNAME FROM DEPT WHERE DEPTNO IN (SELECT DEPTNO FROM EMP WHERE JOB='CLERK');

DNAME

ACCOUNTING RESEARCH SALES

86. Display the department names that are having atleast one L in it. SELECT DNAME FROM DEPT WHERE DNAME LIKE '%L%';

DNAME

SALES

87. Display all the employees who are joined after BLAKE. SELECT * FROM EMP WHERE HIREDATE>(SELECT HIREDATE FROM EMP WHERE ENAME='BLAKE');

HII	EMPNO ENAM REDATE S	E JOB AL COMM	MGR DEPTNO	
	7654 MARTIN	<u> </u>	7698 28-SEP-	
81		00 30	7020 00 ILIN	
81	7782 CLARK 2450	MANAGER 10	7839 09-JUN-	
0.	7788 SCOTT	_	7566 19-APR-	
87	3000	20		
	7839 KING	PRESIDENT	17-NOV-	
81	5000	10	_	
	7844 TURNER	SALESMAN	7698 08-SEP-	ı
81		0 30		
	7876 ADAMS	CLERK	7788 23-MAY-	
87	1100	20		

	7900 JAMES	CLERK	7698 03-DEC-
81	950	30	
	7902 FORD	ANALYST	7566 03-DEC-
81	3000	20	
	7934 MILLER	CLERK	7782 23-JAN-
82	1300	10	

88. List the dept name that are having at least 3 employees but not more than 5 employees in it.

SELECT DNAME FROM DEPT WHERE DEPTNO IN (SELECT DEPTNO FROM EMP GROUP BY DEPTNO HAVING COUNT(*) BETWEEN 3 AND 5);

DNAME

RESEARCH ACCOUNTING

89. Display the location of all employees whose reporting manager salary is greater than 2000.

SELECT LOC FROM DEPT WHERE DEPTNO IN (SELECT DEPTNO FROM EMP WHERE MGR IN (SELECT EMPNO FROM EMP WHERE SAL >2000))

LOC

CHICAGO

DALLAS

NEW YORK

90.Select the employees whose dname is having at least two 'E' in it. SELECT ENAME, DNAME FROM EMP, DEPT WHERE EMP.DEPTNO = DEPT.DEPTNO AND DNAME LIKE '%E%E%'

ENAME DNAME

SMITH RESEARCH JONES RESEARCH SCOTT RESEARCH ADAMS RESEARCH FORD RESEARCH 91. Display ename, sal of employees who are earning more than any of the analyst.

SELECT ENAME, SAL FROM EMP WHERE SAL>ANY (SELECT SAL FROM EMP WHERE JOB='ANALYST');

92. Select all the employees who are working for CHICAGO SELECT * FROM EMP WHERE DEPTNO IN(SELECT DEPTNO FROM DEPT WHERE LOC='CHICAGO');

	EMPNO ENA	AME	JOB	MGR	
HIF	REDATE	SAL	COMM	DEPTNO	
	7400 ALLEN	C A			
81	7499 ALLEN 1600	N SA 300	30	7090 20-FEB-	
01	7521 WARD			7609 22 EED	
04				7698 22-FEB-	
81		500		7000 00 CED	
04	7654 MART	_		7698 28-SEP-	
81	1250			7000 04 8487	
0.4	7698 BLAKE		_	7839 01-MAY-	
81	2850	-	30	7000 00 055	
	7844 TURN	_		7698 08-SEP-	
81	1500	0	30		
	7900 JAMES	S CL	.ERK	7698 03-DEC-	
81	950		30		

93. Query to display employee names who is having minimum salary in department research.

SELECT * FROM EMP WHERE SAL = (SELECT MIN (SAL) FROM EMP WHERE DEPTNO=(SELECT DEPTNO FROM DEPT WHERE DNAME='RESEARCH'));

EMPNO ENAME		JOB	MGR		
HIREDATE S		SAL	COMM	DEPTNO	
	7369 SMITH	CL	ERK	7902 17-DEC-	
80	800		20		

94. List the department names that are having salesman.

SELECT DNAME FROM DEPT WHERE DEPTNO IN(SELECT DEPTNO FROM EMP WHERE JOB='SALESMAN');

DNAME

SALES

95. List the department names that are having at least 3 employes in it.

SELECT DNAME FROM DEPT WHERE DEPTNO IN (SELECT DEPTNO FROM EMP GROUP BY DEPTNO HAVING COUNT(*)>=3);

DNAME

SALES

RESEARCH

ACCOUNTING

96.List employees from research and accounting department having atleast two reporting.

SELECT ENAME FROM EMP WHERE DEPTNO IN(SELECT DEPTNO FROM DEPT WHERE DNAME IN('ACCOUNTING','RESEARCH')) AND EMPNO IN(SELECT MGR FROM EMP GROUP BY MGR HAVING COUNT(*)>=2)

ENAME

KING

JONES

97. Write a query to display employee name, job,dname,location of all employees who are working as manager and works at Chicago.

SELECT ENAME, JOB, LOC FROM EMP E, DEPT D WHERE E.DEPTNO=D.DEPTNO AND JOB='MANAGER'AND LOC='CHICAGO':

ENAME JOB LOC
-----BLAKE MANAGER CHICAGO

98. Select ename, dname of employee who earns 2nd max salary and works for location Dallas.

SELECT ENAME, DNAME FROM EMP E, DEPT D WHERE E.DEPTNO=D.DEPTNO AND E.SAL IN(SELECT MAX(SAL) FROM EMP WHERE SAL<(SELECT MAX(SAL) FROM EMP) AND LOC='DALLAS'

ENAME DNAME
-----SCOTT RESEARCH
FORD RESEARCH

99. Write a query to display the employee information who is not taking commission and joined company after July 83

SELECT * FROM EMP WHERE COMM IS NULL AND HIREDATE > '31-JULY-83':

	EMPNO ENA REDATE 			MGR DEPTNO	
87	7788 SCOTT 3000	AN	 IALYST 20	7566 19-APR-	
	7876 ADAMS	S CI	_ERK	7788 23-MAY-	
87	1100		20		

100. List employees from sales and research department having atleast 2 reporting employees

SELECT ENAME FROM EMP WHERE DEPTNO IN(SELECT DEPTNO FROM DEPT WHERE DNAME IN('SALES','RESEARCH')) AND EMPNO IN(SELECT MGR FROM EMP GROUP BY MGR HAVING COUNT(*)>=2);

ENAME

BLAKE

JONES