Lab Assignment-7



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DEPTN0	DNAME	LOC
10	IMMIGRATION	AGRA
20	MARKETING	DELHI
30	TECHNICAL	PATIALA
40	NON-TECHNICAL	MOHALI

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4 rows selected.

EMPN0	ENAME	ЈОВ	MGR	HIREDATE	SAL	COMM	DEPTNO
100	AJAY	CLERK	103	21-MAR-01	800	_	20
101	AMAR	MANAGER	105	28-APR-01	1600	300	30
102	WASIM	SALESMAN	103	12-AUG-02	1250	500	30
103	JOVAN	MANAGER	106	22-0CT-02	2975	400	20
104	MADDY	SALESMAN	103	18-DEC-04	1250	1400	10
105	BOBBY	MANAGER	106	10-JAN-05	2850	_	20
106	RAM	MANAGER	107	09-FEB-03	2450	300	10
107	SHAM	ANALYST	101	09-SEP-01	3000	1200	20
108	ТОМ	SALESMAN	101	08-APR-02	1500	200	30
109	AMAN	CLERK	106	27-JUN-05	1100	870	20
110	JASKARAN	CLERK	103	03-JUL-04	950	900	30
111	ROHAN	ANALYST	101	06-DEC-03	3000	600	20
112	ROCKY	CLERK	106	23-MAR-01	1300	550	10
113	JASPREET	ANALYST	101	09-SEP-01	3200	1200	20

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14 rows selected.

1. Display ename who belong to same department as that of 'ajay'

select ename,deptno from emp where deptno = (select deptno from emp where ename='AJAY');

ENAME	DEPTNO	
AJAY	20	
JOVAN	20	
B0BBY	20	
SHAM	20	
AMAN	20	
ROHAN	20	
JASPREET	20	
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2. Display ename who do same job as that of 'ajay'

select ename,job from emp where job = (select job from emp where ename='AJAY');

ENAME	Ј0В
AJAY	CLERK
AMAN	CLERK
JASKARAN	CLERK
ROCKY	CLERK

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4 rows selected.

3. List all top five (5) highest paid employees from employee table select * from emp order by sal desc fetch first 5 rows only;

EMPN0	ENAME	ЈОВ	MGR	HIREDATE	SAL	СОММ	DEPTNO
113	JASPREET	ANALYST	101	09-SEP-01	3200	1200	20
107	SHAM	ANALYST	101	09-SEP-01	3000	1200	20
111	ROHAN	ANALYST	101	06-DEC-03	3000	600	20
103	JOVAN	MANAGER	106	22-0CT-02	2975	400	20
105	BOBBY	MANAGER	106	10-JAN-05	2850	-	20

4. List name of five (5) employees who has minimum pay

select * from emp order by sal asc fetch first 5 rows only;

EMPN0	ENAME	Ј0В	MGR	HIREDATE	SAL	COMM	DEPTNO
100	AJAY	CLERK	103	21-MAR-01	800	_	20
110	JASKARAN	CLERK	103	03-JUL-04	950	900	30
109	AMAN	CLERK	106	27-JUN-05	1100	870	20
102	WASIM	SALESMAN	103	12-AUG-02	1250	500	30
104	MADDY	SALESMAN	103	18-DEC-04	1250	1400	10

5. Display the detail of department where manager no is 101

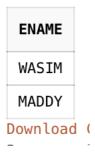
select distinct dept.deptno,dname,loc from emp,dept where emp.deptno = dept.deptno and mgr = 101;

DEPTN0	DNAME	LOC
20	MARKETING	DELHI
30	TECHNICAL	PATIALA

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6. List named of employees whose salary is less then any clerk and are not clerks

select ename from emp where sal < any (select sal from emp where job = 'CLERK') and job<>'CLERK';



7. Display the job name with highest average salary

select ename,job,sal from emp where sal = (select max(sal) from emp where sal > all (select avg(sal) from emp group by job));

ENAME	Ј0В	SAL
JASPREET	ANALYST	3200

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8. Display name of the employee(s) whose salary is greater than average salary of department

select ename,sal,deptno from emp where sal > any (select avg(sal) from emp group by deptno) order by deptno;

ENAME	SAL	DEPTN0
RAM	2450	10
JOVAN	2975	20
BOBBY	2850	20
JASPREET	3200	20
SHAM	3000	20
ROHAN	3000	20
ТОМ	1500	30
AMAR	1600	30

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8 rows selected.

9. Display name of those employee in each department who get the highest salary

select ename,deptno,sal from emp where sal in (select max(sal) from emp group by deptno);

ENAME	DEPTNO	SAL
AMAR	30	1600
RAM	10	2450
JASPREET	20	3200

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3 rows selected.

10. List all employees who have at least one (1) person reporting to him/her

select distinct empno, ename from emp where empno in (select distinct mgr from emp);

EMPNO	ENAME
103	JOVAN
105	B0BBY
106	RAM
107	SHAM
101	AMAR

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5 rows salacted

11. List of employees who do not manage any other employee

select empno, ename from emp where empno NOT IN (select mgr from emp);

EMPN0	ENAME
113	JASPREET
108	ТОМ
109	AMAN
110	JASKARAN
104	MADDY
112	R0CKY
111	ROHAN
102	WASIM
100	AJAY

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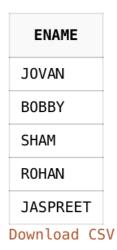
12. Display name of those employees whose salary is greater than the lowest salary of employee belonging to deptno 20

select ename from emp where sal > (select min(sal) from emp where deptno=20);

ENAME
AMAR
WASIM
JOVAN
MADDY
B0BBY
RAM
SHAM
ТОМ
AMAN
JASKARAN
ROHAN
R0CKY
JASPREET
Darmland CC

13. Display name of those employees whose salary is greater than the average salary of manager

select ename from emp where sal > (select avg(sal) from emp where empno in (select distinct mgr from emp));



14. Display name of those employees whose salary is greater than highest salary of all employees belonging to deptno 20

select ename from emp where sal > (select max(sal) from emp where deptno=20);

```
no data found
```

15. List the name of the employees who earn more then the highest paid manager

select ename from emp where sal > (select max(sal) from emp where empno in (select distinct mgr from emp));



Code-

```
create table dept (
   deptno int primary key,
   dname varchar(20) default NULL,
   loc varchar(20)
);

INSERT INTO dept VALUES (10,'IMMIGRATION','AGRA');
INSERT INTO dept VALUES (20,'MARKETING','DELHI');
INSERT INTO dept VALUES (30,'TECHNICAL','PATIALA');
```

```
INSERT INTO dept VALUES (40, 'NON-TECHNICAL', 'MOHALI');
select * from dept order by deptno asc;
create table emp(
 empno int primary key.
 ename varchar(20),
 job varchar(20),
 mar int.
 hiredate date,
 sal int,
 comm int,
deptno int references dept(deptno)
);
-- drop table emp;
INSERT INTO emp VALUES (100, 'AJAY', 'CLERK', 103, '21-MAR-
2001',800,NULL,20);
INSERT INTO emp VALUES (101, 'AMAR', 'MANAGER', 105, '28-APR-
2001',1600,300,30);
INSERT INTO emp VALUES (102, 'WASIM', 'SALESMAN', 103, '12-AUG-
2002',1250,500,30);
INSERT INTO emp VALUES (103, 'JOVAN', 'MANAGER', 106, '22-OCT-
2002',2975,400,20);
INSERT INTO emp VALUES (104, 'MADDY', 'SALESMAN', 103, '18-DEC-
2004',1250,1400,10);
INSERT INTO emp VALUES (105, 'BOBBY', 'MANAGER', 106, '10-JAN-
2005',2850,NULL,20);
INSERT INTO emp VALUES (106, 'RAM', 'MANAGER', 107, '09-FEB-
2003',2450,300,10);
INSERT INTO emp VALUES (107, 'SHAM', 'ANALYST', 101, '09 SEP-
2001',3000,1200,20);
INSERT INTO emp VALUES (108, 'TOM', 'SALESMAN', 101, '08-APR -
2002',1500,200,30);
INSERT INTO emp VALUES (109, 'AMAN', 'CLERK', 106, '27 - JUN -
2005',1100,870,20);
INSERT INTO emp VALUES (110, 'JASKARAN', 'CLERK', 103, '03-JUL-
2004',950,900,30);
INSERT INTO emp VALUES (111, 'ROHAN', 'ANALYST', 101, '06-DEC-
2003',3000,600,20);
INSERT INTO emp VALUES (112, 'ROCKY', 'CLERK', 106, '23-MAR -
2001',1300,550,10);
INSERT INTO emp VALUES (113,'JASPREET','ANALYST',101,'09 SEP-
2001',3200,1200,20);
select * from emp order by empno asc;
```

select ename,deptno from emp where deptno = (select deptno from emp where ename='AJAY');

select ename,job from emp where job = (select job from emp where ename='AJAY');

select * from emp order by sal desc fetch first 5 rows only;

select * from emp order by sal asc fetch first 5 rows only;

select distinct dept.deptno,dname,loc from emp,dept where emp.deptno = dept.deptno and mgr = 101;

select ename from emp where sal < any (select sal from emp where job = 'CLERK') and job<>'CLERK';

select ename,job,sal from emp where sal = (select max(sal) from emp where sal > all (select avg(sal) from emp group by job));

select ename,sal,deptno from emp where sal > any (select avg(sal) from emp group by deptno) order by deptno;

select ename,deptno,sal from emp where sal in (select max(sal) from emp group by deptno);

select distinct empno, ename from emp where empno in (select distinct mgr from emp);

select empno, ename from emp where empno NOT IN (select mgr from emp);

select ename from emp where sal > (select min(sal) from emp where deptno=20);

select ename from emp where sal > (select avg(sal) from emp where empno in (select distinct mgr from emp));

select ename from emp where sal > (select max(sal) from emp where deptno=20);

select ename from emp where sal > (select max(sal) from emp where empno in (select distinct mgr from emp));