

Lab Assignment-7



THAPAR INSTITUTE
OF ENGINEERING & TECHNOLOGY
(Deemed to be University)

Name - Rachit Goyal
Roll.no - 101918056
CSBS/BS-3

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

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4 rows selected.

EMPNO	ENAME	JOB	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-OCT-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	TOM	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
BOBBY	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	JOB
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;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	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-OCT-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;

EMPNO	ENAME	JOB	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 ;

DEPTNO	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';

ENAME
WASIM
MADDY

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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	JOB	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	DEPTNO
RAM	2450	10
JOVAN	2975	20
BOBBY	2850	20
JASPREET	3200	20
SHAM	3000	20
ROHAN	3000	20
TOM	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	BOBBY
106	RAM
107	SHAM
101	AMAR

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5 rows selected

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

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

EMPNO	ENAME
113	JASPREET
108	TOM
109	AMAN
110	JASKARAN
104	MADDY
112	ROCKY
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
BOBBY
RAM
SHAM
TOM
AMAN
JASKARAN
ROHAN
ROCKY
JASPREET

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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));

ENAME
JOVAN
BOBBY
SHAM
ROHAN
JASPREET

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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));

ENAME
JASPREET

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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),  
    mgr 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));
```