**Practical No -3**

**Design SQL queries for suitable database application using SQL DML statements: all types of Join, Sub-Query and View.**

**Create table-**

create table employee

(

empno number(5),

ename varchar2(20),

deptno number(5),

salary number(10)

);

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insert into employee values(101,'sanket',11,10000);

insert into employee values(102,'aniket',12,20000);

insert into employee values(103,'aditya',11,23000);

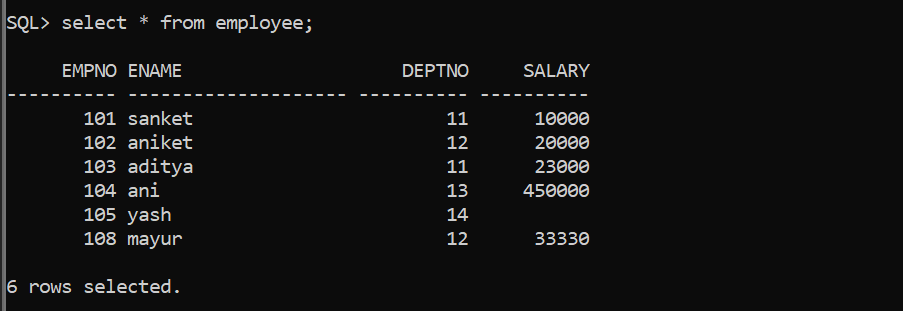
insert into employee values(104,'ani',13,450000);

insert into employee values(105,'yash',14,null);

insert into employee values(108,'mayur',12,33330);

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select \* from employee;



**Create table-**

create table dept

(

city varchar2(20),

pcode varchar2(20),

deptno number(5),

dname varchar2(20)

);

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insert into dept values('pune','411005',11,'dev');

insert into dept values('mumbai','411005',12,'hr');

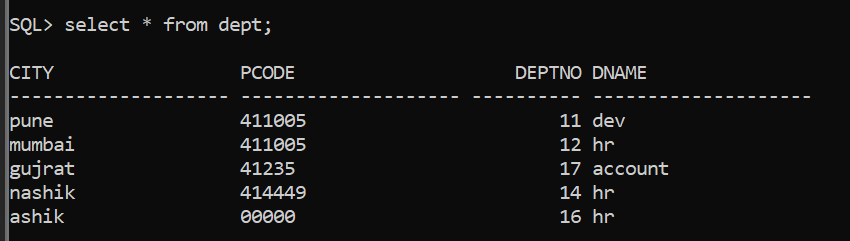
insert into dept values('gujrat','41235',17,'account');

insert into dept values('nashik','414449',14,'hr');

insert into dept values('ashik','00000',16,'hr');

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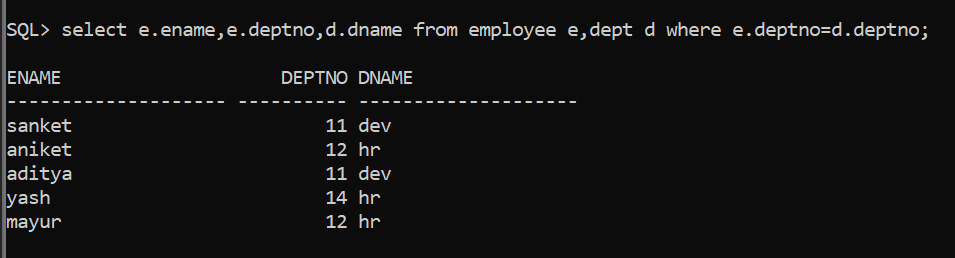
select \* from dept;



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**INNER JOIN:- common records from both the tables**

select e.ename,e.deptno,d.dname from employee e,dept d where e.deptno=d.deptno;

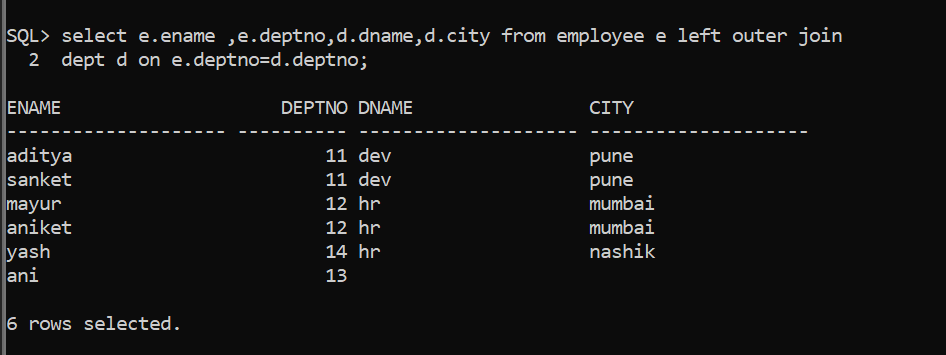


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**LEFT OUTER JOIN :-**

select e.ename ,e.deptno,d.dname,d.city from employee e left outer join

dept d on e.deptno=d.deptno;

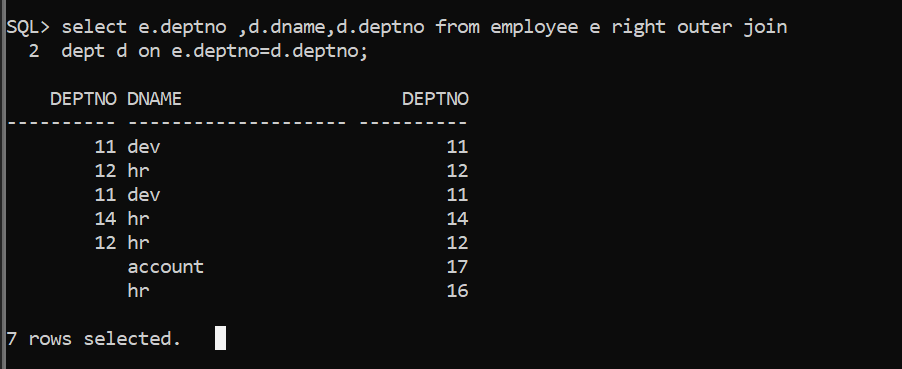


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**Right Outer Join:-**

select e.deptno ,d.dname,d.deptno from employee e right outer join

dept d on e.deptno=d.deptno;

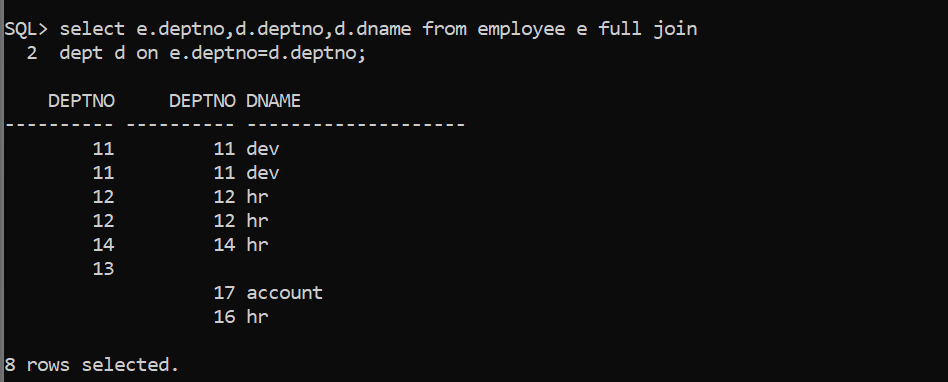


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**Full Join:-**

select e.deptno,d.deptno,d.dname from employee e full join

dept d on e.deptno=d.deptno;

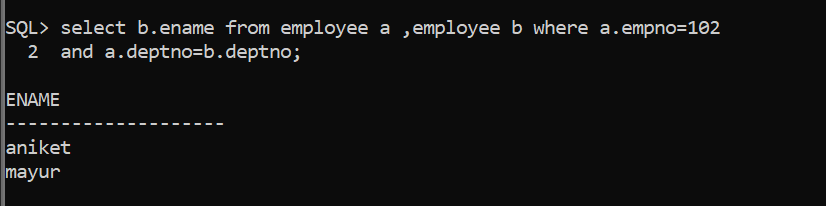


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**Self Join:-(Inner Join)**

select b.ename from employee a ,employee b where a.empno=102

and a.deptno=b.deptno;



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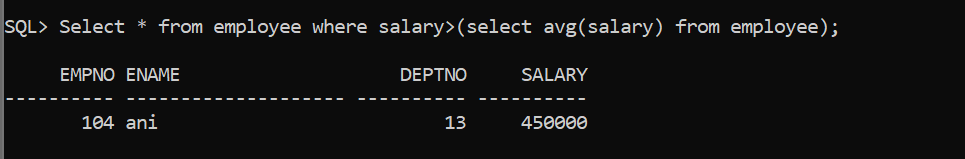
**Cross Join:-**

select \* from employee,dept;

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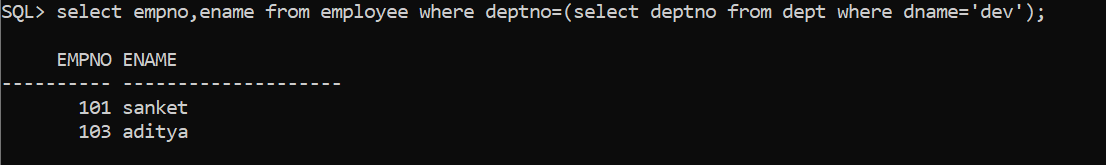
**Sub-Query:-**

Select \* from employee where salary>(select avg(salary) from employee);



**Single-Row Sub-Queries or Corelated Queries:-** ‘ =’ use in query

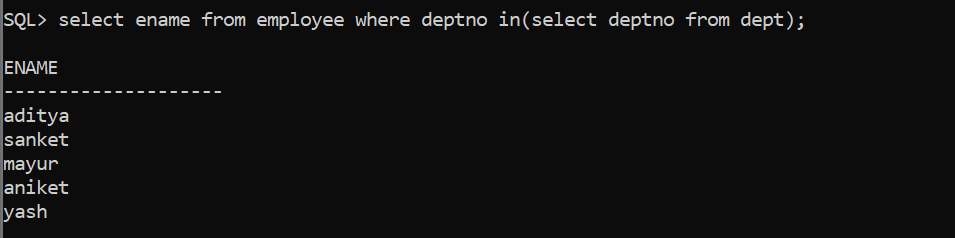
select empno,ename from employee where deptno=(select deptno from dept where dname='dev');



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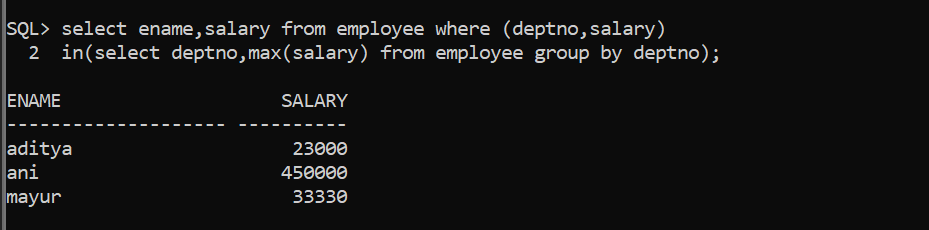
**Multi-Row Sub-Queries:- in use here**

select ename from employee where deptno in(select deptno from dept);



select ename,salary from employee where (deptno,salary)

in(select deptno,max(salary) from employee group by deptno);

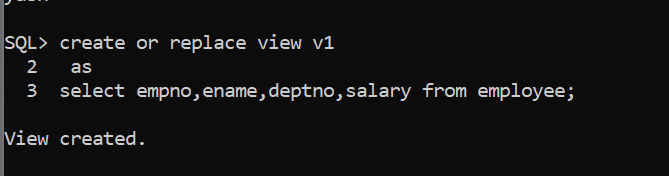


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**VIEW:-**

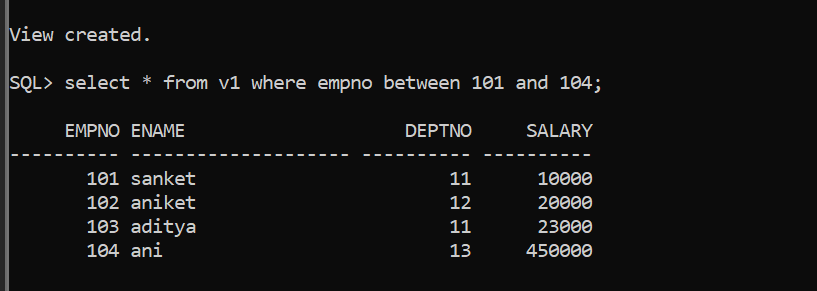
create or replace view v1

as select empno,ename,deptno,salary from employee;

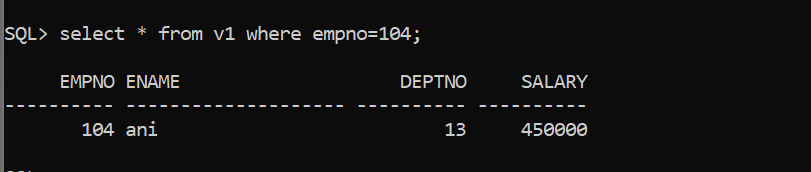


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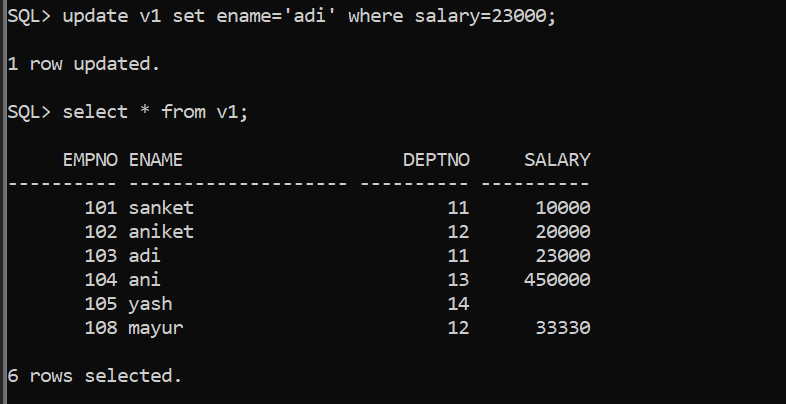
select \* from v1 where empno between 101 and 104;



select \* from v1 where empno=104;



update v1 set ename='adi' where salary=23000;



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