B) Use of Advanced Sub-query

1) Display those employes who work for particular department

   select ename from emp where exists(select * from dept)

2) Display those employee who work for IT dept

   select ename from emp where dno in(select dno from dept where dname ='it')

3) Display employee whose salary below avg salary

Select eno,salary from emp where salary <(select avg(sal) from emp

4) Display employee who are not belonging to any dept

   select e.ename from emp e where dno not in (select e1.dno from emp e1 where dno is null and e.eno<>e1.eno)

5) Display employee who are earning more than average salary for the dept they are working

select ename from emp where salary =(select avg(salary) from emp e,dept d where e.dno=d.dno)

6) Display employee whose salary is greater than maximum salary according to the dept

select ename from emp where salary > all (select max(salary) from emp group by dno)

7) Display employee whose commission is beyond the commission of employee whose ID is 2

 select ename from emp where comm<(select comm from emp where eno=2)

8) Display employee getting salary more than some of the employee working for dept 20

select ename , salary from emp where salary > any (select salary from emp where dno =20)

9) Display employee getting salary more than some of the employee working for It or marketing

 select ename from emp where salary > all (select salary from emp ,dept where dname='it' or dname='marketing')

10) List those employee who are in the same dept having n in their name with salary less than max salary

select ename from emp where dno in(select dno from emp where ename like '%n%' and salary < (select max(salary) from emp))

11) Transfer all the employee who belongs to dept 20 to emp table

   insert into employee (select * from emp where dno=20)

12) Increase 20% comm for emp whose dept is in US

   update emp set comm=comm+comm*0.2where dno in (select dno from dept where dname='USA')

13) Remove those employee who works for finance dept

 delete from empwhere dno in (select dno from dept where dname='Finance')

14) Display those employee who join after Bob

   select ename from emp where doj>(select doj from emp where ename='Bob')

A) Use of basic Sub-query

1) Find the details of employee and the department based on matching column. [subquery with set membership]
   Select * from emp where dno in (select dno from dept)

2) Display employee who work for dept 10 and dept located in London
   Select ename from emp where dno=10 and dno=(select dno from dept where location ='london')

3) Display those employee who have same doj [Correlated subquery]
   Select e1.eno from emp e1 where doj in (select doj from emp e2 where e1.eno<>e2.dno)

4) Display those employeee who belong to different departments
   Select e1.eno from emp e1 where dno not in (select dno from emp e2 where e1.eno<> e2.eno)