1. *Display the Name and Title of the Employee who do not have a manager.*

*select ename,job from emp where mgr is NULL;*

1. *The sales department is simplifying the pricing policy for all products. The new base price is increasing by the lesser of 0.5 %. Analyze the difference in the two prices.*

*select productname, unitprice, unitprice\*0.5 r1, unitprice - unitprice\*0.5 diff from products;*

1. *Display the employee details who have joined on the same day when KING has joined.*

*Select ename,hiredate from emp where hiredate=(select hiredate from emp where empno=7839);*

1. *Find out the difference between maximum salary and salary earned by employee in deptno 10.*

*select ((select sal from emp where deptno=10 order by sal desc limit 1) - (select sal from emp where deptno=10 order by sal limit 1)) R1 ;*

1. *Find out the difference in Rs. Between average earning of dept 20 and 30.*

*select abs(( select avg(sal) r1 from emp where deptno=30) - (select avg(sal) r1 from emp where deptno=20)) avgSalDiff;*

1. *Display name, salary, comm. For employee whose comm. > 5% of salary.*

*select ename,sal,comm from emp where comm>(sal\*0.05) ;*

1. *Find out the employees whose salary is less than the average salary for dept 20.*

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

1. *Display information of employee who has no people reporting to them.*

*select empno,ename from emp left outer join (select distinct mgr from emp)t on empno=t.mgr and t.mgr is null;*

1. *Display information of employees who is having maximum number of people reporting to them.*

*select ename from emp,(select mgr,count(mgr) m from emp group by mgr order by m desc limit 1)t where t.mgr=empno;*

1. *Give a query to concatenate empno, ename and mgr with spaces between.*

*select concat(empno," ",ename," ",mgr) from emp;*

1. *List the employee who is hired the earliest and least.*

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

*select ename from emp where hiredate=(select max(hiredate) from emp);*

1. *What length of longest ename and by how many characters is it long than its nearest one?*

*select t1.l longest,(t1.l-t2.l) diff from (select distinct length(ename) l from emp order by l desc limit 1)t1,(select distinct length(ename) l from emp order by l desc limit 1,1)t2;*

1. *Which employees earn less than 30% of president s salary?*

*select ename from emp where sal<0.3\*(select sal from emp where job='president');*

1. *List the department spending highest on salary.*

*select dname from dept,(select deptno,sum(sal) s from emp group by deptno order by s desc limit 1)t where dept.deptno=t.deptno;*

1. *List the department having least number of staff.*

*select dname from dept,(select deptno,count(deptno) c from emp group by deptno order by c limit 1)t where dept.deptno=t.deptno;*

1. *List the department having neither the highest not the lowest of avg salary.*
2. *Display details of all employees as Mr. Ford works under <manger name>.*

*select concat(e.ename," works under ",m.ename) from emp e,emp m where m.empno=e.mgr;*

1. *Display employee information who have joined the organization before 'BLAKE'*

*select ename from emp where hiredate<(select hiredate from emp where ename='blake');*

1. *Display employee information that has joined the organization before their subordinates.*

*select e.ename from emp e,emp m where m.empno=e.mgr and e.hiredate<m.hiredate;*

1. *List the employee (s) who earns the highest.*

*select ename from emp where sal=(select max(sal) from emp);*

1. *List the mgr in dept 10 along with their dept details as well manager refers to anyone to whom at least 1 person reports.*
2. *In which year did the most people join the organization? Display the year and the number of employees.*
3. *select year(hiredate),count(hiredate) no from emp group by year(hiredate) order by no desc limit 1;*
4. *List number, name, job, manager number and manger’s job of each employee reporting to them*

*select e.empno,e.ename,e.job,e.mgr,m.job from emp e,emp m where m.empno=e.mgr;*

1. *Display information about employees who have the maximum number of employees reporting to him*

*select ename from emp,(select mgr,count(mgr) c from emp group by mgr order by c desc limit 1)t where emp.empno=t.mgr;*

1. *Display the details of all employees who report to BLAKE*

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

1. *Display the department no of all departments having more than 1 clerks*

*select deptno,count(deptno) c from emp where job='clerk' group by deptno;*

1. *Which employees earn less than 30% of the president’s salary.*

*select ename from emp where sal<0.3\*(select sal from emp where job='president');*

1. *Display all employee names and the locations of their departments except ‘CHICAGO’*

*select ename from emp where deptno not in (select deptno from dept where loc!='chicago');*

1. *Display department that has no employees*

*select dname from dept where deptno not in (select deptno from emp group by deptno);*

1. *Display the products purchased by JOCK SPORTS which are not purchased by JUST TENNIS*
2. *Write a query to find out the employees who are first to join their departments*

*select ename from emp where hiredate in (select min(hiredate) from emp group by deptno);*

1. *Create a query to display the name, hiredate, and salary for all employees who have both the same salary and commission as Scott.*

*select ename,emp.sal,emp.comm from emp,(select sal,comm from emp where ename='scott')t where emp.sal=t.sal and ename!='scott';*

1. *List all the employees who have at least one person reporting to them.*

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

1. *List the name of the employees with their immediate higher authority.*

*select e.ename,m.ename from emp e,emp m where m.empno=e.mgr;*

1. *List all the employees who do not manage any one.*

*select emp.ename from emp left outer join (select distinct mgr from emp)t on emp.empno=t.mgr and t.mgr is null;*

1. *Write a query to display a ‘\*’ against the row of the most recently hired employee.*

*select ifnull(t.x,"") s,ename from emp left outer join (select "\*" x,max(hiredate) m from emp)t on emp.hiredate=t.m;*

1. *Write a correlated sub-query to list out the employees who earn more than the average salary of their department.*

*select distinct ename,sal from emp,(select avg(sal) a,deptno from emp group by deptno)t where t.a<emp.sal;*

1. *Find the 2nd maximum salary.*

*select ename,sal from emp order by sal desc limit 1,1;*

1. *Select the duplicate records (Records, which are inserted, that already exist) in the EMP table.*

*select l.deptno,l.dname,l.loc,l.walletid from (select row\_number() over(partition by deptno) r,t.\* from (select \* from duplicate order by deptno)t)l where r!=1;*