**LAB 4 (a & b)**

**Hiba Zubair 18k-1361**

**Lab 4 (A):**

**Q1. Write a transaction to insert following rows in EMP table:**

insert into emp(EMPNO , ENAME , JOB , MGR , HIREDATE ,SAL ,DEPTNO )

values('7123' , 'RALPH' ,'DESIGNER' , '7566' , '21-APR-85' ,' 2300' , '50');

insert into emp(EMPNO , ENAME , JOB , MGR , HIREDATE ,SAL ,DEPTNO )

values('7890' , 'GEORGE' ,'clerk' , '7566' , '03-may-85' ,' 1235' , '50');

insert into emp(EMPNO , ENAME , JOB , MGR , HIREDATE ,SAL,comm ,DEPTNO )

values('7629' , 'BOB' ,'salesman' , '7698' , '06-march-86' ,' 1800','1000 ', '30');

**Q2. Write down SQL statements to perform following functions:-**

1. **Increase the salary by 250 of all clerks with a salary less than 900**

update emp set sal = sal+250 where sal < 900 and job = 'CLERK';

1. **Transfer the employee with number 7890 to department 20 and increase his salary by 15%.**

update emp set deptno = 20 , sal = sal \* 1.15 where empno = 7890

1. **Remove all employees who were hired before 1981.**

delete emp where hiredate < TO\_DATE('01.01.1981','DD.MM.YYYY');

Q1) select e.ename, e.job, d.dname, e.sal, s.grade from emp e, dept d, salgrade salg where

(e.deptno = d.deptno) and (e.sal between salg.LOSAL and salg.HISAL) order by e.deptno;

Q2) (select deptno from emp group by deptno having (select count(ename) from emp) &gt; 2);

Q3) select \* from emp e where e.sal &lt; (select min(sal) from emp);

Q4) select d.deptno, d.dname from dept d where d.deptno not in (select deptno from emp);

Q5) select e.ename, e1.ename, e.sal, d.dname from dept d, emp e, emp e1 where d.deptno =

e.deptno and e.deptno = e1.deptno and e.ename &lt;&gt; e1.ename;

Q6) select e.ename, e.sal, d.dname, s.grade from emp e, dept d, salgrade s where (e.deptno =

d.deptno) and (e.sal between s.LOSAL and s.HISAL)

Q7) select e.ename, e.job, e.sal \* 12, e.deptno, d.dname, s.grade from emp e, dept d, salgrade s

where (e.deptno = d.deptno) and (e.sal between s.LOSAL and s.HISAL) and e.sal \* 12 = 60000

and e.job &lt;&gt; &#39;ANALYST&#39;;

Q8) select e.empno, e.ename, e.hiredate, e.mgr, e1.empno, e1.ename, e1.hiredate from emp

e, emp e1 where e.HIREDATE &lt; e1.HIREDATE and e.mgr = e1.empno;

Q9) select e.ename, e.sal, d.dname, s.grade from emp e, dept d, salgrade s where (e.deptno =

d.deptno) and (e.sal between s.LOSAL and s.HISAL) and s.grade = 2;

Q10) select e.ename, e.job, d.dname, e.sal, s.grade from emp e, dept d, salgrade s where

(e.deptno = d.deptno) and (e.sal between s.LOSAL and s.HISAL) order by e.deptno;

Q11) select e.empno, e.ename, e.mgr, e.deptno, e1.empno, e1.ename, e1.deptno from emp e,

emp e1 where e.DEPTNO = e1.DEPTNO and e.mgr = e1.empno and e.ename &lt;&gt; e1.ename;

Q12) select e.ename, e.sal, e.deptno, e1.ename, e1.sal, e1.deptno from emp e, emp e1 where

e.deptno = 10 and e1.deptno = 30 and e.sal &gt;= e1.sal;

Q13) select distinct e.ename, e.sal, e.deptno from emp e, emp e1 where e.deptno &lt;&gt; 30 and

e1.deptno = 30 and e.sal &gt; all (select sal from emp where deptno = 30);

Q14) select d.deptno, d.dname from dept d where d.deptno not in (select deptno from emp);

Q15) select distinct e.ename, e.sal, e.deptno from emp e, emp e1 where e.deptno = any (select

deptno from emp where COMM IS NOT NULL and emp.ename &lt;&gt; e.ename) and e.sal = any

(select sal from emp where COMM IS NOT NULL and emp.ename &lt;&gt; e.ename);

Q16) select job, sum(sal) from emp where deptno &lt;&gt; (select deptno from dept where dname =

&#39;SALES&#39;) group by job having sum(sal) &gt; 5000 order by sum(sal) desc;

Q17) select e.ename, e1.ename as &quot;Manager&quot; from emp e, emp e1 where e1.empno =

NVL(e.mgr,e.empno);

Q18) select distinct e.job, d.loc from emp e, dept d where d.deptno = e.deptno and d.deptno =

30;

Q19) select e.ename as &quot;Employee&quot;, e.empno as &quot;Employee #&quot;, e.mgr as &quot;Manager #&quot;,

e1.ename as &quot;Manager&quot;, e1.empno as &quot;Manager E#&quot; from emp e, emp e1 where e.mgr =

e1.empno;

Q20) select \* from (select \* from (select \* from emp order by sal desc) where rownum &lt;= 2

order by sal) where rownum = 1;