1. Show the Employees who were hired after Blake.

```
select * from emp
where hiredate > (select hiredate from emp where ename = 'BLAKE')
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	сомм	DEPTNO
7654	MARTIN	SALESMAN	7698	09/28/1981	1250	1400	30
7782	CLARK	MANAGER	7839	06/09/1981	2450	_	10
7788	SCOTT	ANALYST	7566	12/09/1982	3000	-	20
7839	KING	PRESIDENT	-	11/17/1981	5000	_	10
7844	TURNER	SALESMAN	7698	09/08/1981	1500	0	30
7876	ADAMS	CLERK	7788	01/12/1983	1100	_	20
7900	JAMES	CLERK	7698	12/03/1981	950	-	30
7902	FORD	ANALYST	7566	12/03/1981	3000	-	20

2. List those Employees having same Department Location as of Smith.

SELECT * FROM emp
WHERE deptno =
(SELECT deptno FROM emp join dept using(deptno) where ename='SMITH');

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	сомм	DEPTNO
7369	SMITH	CLERK	7902	12/17/1980	800	-	20
7566	JONES	MANAGER	7839	04/02/1981	2975	-	20
7788	SCOTT	ANALYST	7566	12/09/1982	3000	-	20
7876	ADAMS	CLERK	7788	01/12/1983	1100	-	20
7902	FORD	ANALYST	7566	12/03/1981	3000	-	20

3. Enlist those Employees having job same like Clark but salary less than average salary.

SELECT ename, deptno, job FROM emp
WHERE job=(select job from emp where ename='CLARK') and sal < (select avg(sal) from emp)
no data found

4. Update the names of the employees in lowercase.

update emp
set ename=lower(ename)

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	сомм	DEPTNO
7369	smith	CLERK	7902	12/17/1980	800	-	20
7499	allen	SALESMAN	7698	02/20/1981	1600	300	30
7521	ward	SALESMAN	7698	02/22/1981	1250	500	30
7566	jones	MANAGER	7839	04/02/1981	2975	_	20
7654	martin	SALESMAN	7698	09/28/1981	1250	1400	30
7698	blake	MANAGER	7839	05/01/1981	2850	-	30
7782	clark	MANAGER	7839	06/09/1981	2450	-	10
7788	scott	ANALYST	7566	12/09/1982	3000	_	20
7839	king	PRESIDENT	-	11/17/1981	5000	-	10
7844	turner	SALESMAN	7698	09/08/1981	1500	0	30

- 5. Find the 3rd lowest salary of each job
- 6. You are not supposed to show the entire salary so now find the one year salary of King and show only 1st digit and last 2 digit like 5**23.

```
SELECT ename ,sal,sal*12,concat(rpad(substr(sal*12,1,1),(length(sal*12)-
2),'*'), substr(sal*12,-2,2) ) as output FROM emp
where ename ='KING'
```

ENAME	SAL	SAL*12	OUTPUT
KING	5000	60000	6**00

7. Get those employees who have commission greater than Each employee of department no. 10.

select * from emp where comm is not null and comm>all(select comm from emp where deptno=20 and comm is not NULL)

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	сомм	DEPTNO
7844	turner	SALESMAN	7698	09/08/1981	1500	0	30
7499	allen	SALESMAN	7698	02/20/1981	1600	300	30
7521	ward	SALESMAN	7698	02/22/1981	1250	500	30
7654	martin	SALESMAN	7698	09/28/1981	1250	1400	30

8. Show no. of employees having their total salary (including commission) greater than average salary and also those having less than average salary and give appropriate name to both columns.

WHERE ROWNUM=1

greater than avg sal	less than avg sal
----------------------	-------------------

6 7

9. Increase the salaries using CASE Expression 15% of those employees who are having salary below the average salary and 5 % of those who are having salary greater than average salary.

SELECT ename, sal, deptno,

case

when sal < (select avg(sal) from emp) then sal+ (sal*15)/100 when sal >(select avg(sal) from emp) then sal+ (sal*5)/100 end "revised salary"

from emp

ENAME	SAL	DEPTNO	revised salary
smith	800	20	920
allen	1600	30	1840
ward	1250	30	1437.5
jones	2975	20	3123.75
martin	1250	30	1437.5
blake	2850	30	2992.5
clark	2450	10	2572.5
scott	3000	20	3150
king	5000	10	5250
turner	1500	30	1725

10. Update the job, deptno and salary of king to match that of Allen.

UPDATE emp
SET (job, deptno,sal) = (SELECT job, deptno,sal
FROM emp
WHERE ename='ALLEN')

WHERE ename='KING'

after this:

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	сомм	DEPTNO
7499	ALLEN	SALESMAN	7698	02/20/1981	1600	300	30
7839	KING	SALESMAN	-	11/17/1981	1600	-	30

11. Insert a row in dept table. (deptno=50,name=IT, Loc=Karachi)

INSERT INTO dept (deptno, dname, loc) VALUES (50, 'IT', 'KARACHI');

after this:

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON
50	IT	KARACHI

12. Delete the above inserted row

delete from dept where deptno=50

after this:

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

13. Delete all the employees of Operations department

delete from emp
where deptno=(select deptno from dept where dname ='OPERATIONS')

- 0 row(s) deleted.
 - 14. Insert a row which will make Allen an employee of deptno 40. insert into emp

insert into emp select empno, ename, job, mgr, hiredate, sal, comm, 40 from emp where ename='SMITH';

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	сомм	DEPTNO
7369	SMITH	CLERK	7902	12/17/1980	800	-	40
7369	SMITH	CLERK	7902	12/17/1980	800	-	20

15. Update the location of deptno 20 as $\,$ NEW YORK

update dept set loc=('New YORK') where deptno=20

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	New YORK
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	сомм	DEPTNO
7782	CLARK	MANAGER	7839	06/09/1981	2450	-	10
7839	KING	PRESIDENT	-	11/17/1981	5000	-	10
7788	SCOTT	ANALYST	7566	12/09/1982	3000	-	20
7876	ADAMS	CLERK	7788	01/12/1983	1100	-	20
7369	SMITH	CLERK	7902	12/17/1980	800	-	20
7902	FORD	ANALYST	7566	12/03/1981	3000	-	20
7566	JONES	MANAGER	7839	04/02/1981	2975	-	20
7499	ALLEN	SALESMAN	7698	02/20/1981	1600	300	30
7844	TURNER	SALESMAN	7698	09/08/1981	1500	0	30
7698	BLAKE	MANAGER	7839	05/01/1981	2850	-	30
7654	MARTIN	SALESMAN	7698	09/28/1981	1250	1400	30
7900	JAMES	CLERK	7698	12/03/1981	950	-	30
7521	WARD	SALESMAN	7698	02/22/1981	1250	500	30