WORKSHEET-II (USING EMP TABLE)

- 1) List employee names and their hire dates sorted in the order of their experience.
- 2) List managers names and their joining dates completely spelled in alphabetical order of names.
- List employee names and their experience in years with names arranged in descending order.
- 4) List employee names having a minimum of 2 years' experience sorted on experience.
- 5) List employee names with all capital letters, with all small letters and with first letter only as capital.
- 6) List employee names with length of the name sorted on length.
- 7) List employee names appending Sri to the beginning and Garu to the end.
- 8) List employee names and month names of joining.
- 9) List employee names and year of joining in words.
- 10) List employees names, job and salary with 5 hyphens in between.
- 11) List employee names and position of first occurrence of I in their name.
- 12) List employee names and the string without first character and last character in their name.
- 13) List employees who joined between Apr 81 and Apr 82.
- 14) List max sal, min sal and average sal of depts. 10,30.
- 15) List the designation in dept 30 but not in 20.
- 16) List the number of employees ine ach department along with dept numbers.
- 17) List number of employees joined year wise.
- 18) List number of employees job wise.
- 19) List max sal, min sal, average salary dept wise.
- 20) List max sal, min sal, average salary job wise.
- 21) List max sal, min sal for the jobs MANAGER and CLERK.
- 22) List max sal, min sal AND average salary of the depts. Having a minimum 3 employees.
- 23) List the number of employees in each job in each department.
- 24) List MGR and the number of employees report to them in the sorted order.
- 25) List emp numbers of employees to whom a minimum of 3 people report.
- 26) List dept numbers having a minimum of 3 persons.
- 27) List names of jobs having a minimum of 3 persons in that job.
- 28) List names of months in which a minimum of 3 persons joined.
- 29) List hiredates of employees having 2 or more employees having the same hiredate.
- 30) List departments having minimum of 3 people having a minimum of 17 years of experience.

WORKSHEET-2

1) List employee names and their hire dates sorted in the order of their experience.

SQL> select ename, round((months_between(sysdate, hiredate))/12) as experience from emp order by experience;

ENAME	EXPERIENCE
SCOTT	37
ADAMS	37
KING	38
MARTIN	38
JAMES	38
FORD	38
TURNER	38
MILLER	38
BLAKE	39
SMITH	39
WARD	39
ENAME	EXPERIENCE
ALLEN	39
CLARK	39
JONES	39

¹⁴ rows selected.

2) List managers names and their joining dates completely spelled in alphabetical order of names.

SQL> select ename, hiredate from emp where job='MANAGER' order by ename;

ENAME	HIREDATE
BLAKE	01-MAY-81
CLARK	09-JUN-81
JONES	02-APR-81

3) List employee names and their experience in years with names arranged in descending order.

SQL> select ename, round((months_between(sysdate, hiredate))/12) as experience from emp order by ename desc;

ENAME	EXPERIENCE
WARD	39
TURNER	38
SMITH	39
SCOTT	37
MILLER	38
MARTIN	38
KING	38

JONES	39
JAMES	38
FORD	38
CLARK	39
ENAME	EXPERIENCE
BLAKE	39
ALLEN	39
ADAMS	37

14 rows selected.

4) List employee names having a minimum of 2 years experience sorted on experience.

SQL> select ename, round((months_between(sysdate, hiredate))/12) as experience from emp where round((m onths_between(sysdate, hiredate))/12)>=2 order by round((months between(sysdate, hiredate))/12);

ENAME	EXPERIENCE
SCOTT	37
ADAMS	37
KING	38
MARTIN	38
JAMES	38
FORD	38
TURNER	38
MILLER	38
BLAKE	39
SMITH	39
WARD	39
ENAME	EXPERIENCE
ALLEN	39
	0,0
CLARK	39
JONES	39

14 rows selected.

5) List employee names with all capital letters, with all small letters and with first letter only as capital.

SQL> select upper(ename), lower(ename), initcap(ename) from emp;

JAMES	james	James
WARD	ward	Ward
FORD	ford	Ford
SMITH	smith	Smith
UPPER (ENAM	LOWER (ENAM	INITCAP (EN
SCOTT	scott	Scott
ADAMS	adams	Adams
MILLER	miller	Miller

¹⁴ rows selected.

6) List employee names with length of the name sorted on length.

SQL> select ename, length(ename) from emp order by length(ename);

ENAME	LENGTH (ENAME)
KING	4
WARD	4
FORD	4
BLAKE	5
CLARK	5
ALLEN	5
SCOTT	5
ADAMS	5
SMITH	5
JAMES	5
JONES	5
ENAME	LENGTH (ENAME)
MARTIN	6
TURNER	6
MILLER	6

¹⁴ rows selected.

7) List employee names appending Sri to the beginning and Garu to the end.

```
'SRI'||''||ENAME||'
------
SRI SCOTT GARU
SRI ADAMS GARU
SRI MILLER GARU
```

14 rows selected.

8) List employee names and month names of joining.

SQL> select ename, to char(hiredate, 'MONTH') from emp;

KING NOVEMBER BLAKE MAY CLARK JUNE JONES APRIL MARTIN SEPTEMBER ALLEN FEBRUARY TURNER SEPTEMBER JAMES DECEMBER WARD FEBRUARY
BLAKE MAY CLARK JUNE JONES APRIL MARTIN SEPTEMBER ALLEN FEBRUARY TURNER SEPTEMBER JAMES DECEMBER
JONES APRIL MARTIN SEPTEMBER ALLEN FEBRUARY TURNER SEPTEMBER JAMES DECEMBER
MARTIN SEPTEMBER ALLEN FEBRUARY TURNER SEPTEMBER JAMES DECEMBER
ALLEN FEBRUARY TURNER SEPTEMBER JAMES DECEMBER
TURNER SEPTEMBER JAMES DECEMBER
JAMES DECEMBER
WARD FEBRUARY
FORD DECEMBER
SMITH DECEMBER
ENAME TO_CHAR (H
SCOTT DECEMBER
ADAMS JANUARY
MILLER JANUARY

14 rows selected.

9) List employee names and year of joining in words.

SQL> select ename, to char(hiredate, 'YEAR') from emp;

ENAME	TO_CHAR(HIREDATE, 'YEAR')
KING	NINETEEN EIGHTY-ONE
BLAKE	NINETEEN EIGHTY-ONE
CLARK	NINETEEN EIGHTY-ONE
JONES	NINETEEN EIGHTY-ONE
MARTIN	NINETEEN EIGHTY-ONE
ALLEN	NINETEEN EIGHTY-ONE
TURNER	NINETEEN EIGHTY-ONE
JAMES	NINETEEN EIGHTY-ONE
WARD	NINETEEN EIGHTY-ONE
FORD	NINETEEN EIGHTY-ONE
SMITH	NINETEEN EIGHTY
ENAME	TO_CHAR(HIREDATE, 'YEAR')
SCOTT	NINETEEN EIGHTY-TWO

ADAMS NINETEEN EIGHTY-THREE MILLER NINETEEN EIGHTY-TWO

14 rows selected.

10) List employees names, job and salary with 5 hyphens in between.

SQL> select	ename '	' job '	' sal from emp;
ENAME '	' JOB '	' SAL	
KING	_PRESIDENT_	5000	
	_MANAGER		
CLARK	MANAGER	2450	
JONES	_MANAGER	2975	
MARTIN	SALESMAN_	1250	
ALLEN	SALESMAN	1600	
TURNER	SALESMAN_	1500	
JAMES	CLERK	950	
WARD	_SALESMAN	1250	
FORD	_ANALYST	3000	
SMITH	CLERK	800	
ENAME '	' JOB '	' SAL	
SCOTT	ANALYST	3000	
	CLERK		
	CLERK		
1.4			

¹⁴ rows selected.

11) List employee names and position of first occurrence of I in their name.

SQL> select ename, instr(ename, 'I') from emp;

ENAME	<pre>INSTR(ENAME, 'I')</pre>
KING	2
BLAKE	0
CLARK	0
JONES	0
MARTIN	5
ALLEN	0
TURNER	0
JAMES	0
WARD	0
FORD	0
SMITH	3
ENAME	<pre>INSTR(ENAME, 'I')</pre>
SCOTT	0
ADAMS	0

MILLER 2

14 rows selected.

12) List employee names and the string without first character and last character in their name.

SQL> select ename, substr(ename, 2, length(ename) -2) from emp;

ENAME	SUBSTR (EN
KING	IN
BLAKE	LAK
CLARK	LAR
JONES	ONE
MARTIN	ARTI
ALLEN	LLE
TURNER	URNE
JAMES	AME
WARD	AR
FORD	OR
SMITH	MIT
ENAME	SUBSTR (EN
SCOTT	COT
ADAMS	DAM
MILLER	ILLE

¹⁴ rows selected.

13) List employees who joined between Apr 81 and Apr 82.

SQL> select ename, hiredate from emp where hiredate between '01-APR-81' and '30-APR-82';

ENAME	HIREDATE
KING	17-NOV-81
BLAKE	01-MAY-81
CLARK	09-JUN-81
JONES	02-APR-81
MARTIN	28-SEP-81
TURNER	08-SEP-81
JAMES	03-DEC-81
FORD	03-DEC-81
MILLER	23-JAN-82

9 rows selected.

14) List max sal, min sal and average sal of depts. 10,30.

SQL> select min(sal), max(sal), avg(sal) from emp where deptno in (10,30) group by deptno;

MIN(SAL) MAX(SAL) AVG(SAL)

```
1300 5000 2916.66667
950 2850 1566.66667
```

15) List the designation in dept 30 but not in 20.

```
SQL> select job from emp where deptno=30 minus 2 select job from emp where deptno=20;

JOB
------
SALESMAN
```

16) List the number of employees in each department along with dept numbers.

SQL> select deptno, count(*) from emp group by deptno;

COUNT(*)	DEPTNO
3	10
5	20
6	30

17) List number of employees joined year wise.

SQL> select count(*),to_char(hiredate,'YY') as year from emp group by
to_char(hiredate,'YY');

18) List number of employees job wise.

SQL> select job, count(*) from emp group by job;

JOB	COUNT(*)
ANALYST	2
CLERK	4
MANAGER	3
PRESIDENT	1
SALESMAN	4

19) List max sal, min sal, average salary dept wise.

SQL> select max(sal), min(sal), avg(sal), deptno from emp group by deptno;

MAX(SAL)	MIN(SAL)	AVG(SAL)	DEPTNO
5000	1300	2916.66667	10
3000	800	2175	20

2850 950 1566.66667 30

20) List max sal, min sal, average salary job wise.

SQL> select max(sal), min(sal), avg(sal), job from emp group by job;

	MAX (SAL)	MIN(SAL)	AVG(SAL)	JOB
_				
	3000	3000	3000	ANALYST
	1300	800	1037.5	CLERK
	2975	2450	2758.33333	MANAGER
	5000	5000	5000	PRESIDENT
	1600	1250	1400	SALESMAN

21) List max sal, min sal for the jobs MANAGER and CLERK.

SQL> select max(sal),min(sal),job from emp where job
in('MANAGER','CLERK') group by job;

MAX (SAL)	MIN(SAL)	JOB
1300	800	CLERK
2975	2450	MANAGER

22) List max sal, min sal AND average salary of the depts. Having a minimum 3 employees.

SQL> select max(sal), min(sal), avg(sal) from emp group by deptno having count(*)>=3;

AVG(SAL)	MIN(SAL)	MAX (SAL)
2916.66667	1300	5000
2175	800	3000
1566.66667	950	2850

23) List the number of employees in each job in each department.

SQL> select count(*), job, deptno from emp group by deptno, job;

COUNT(*)	JOB	DEPTNO
1	CLERK	10
1	MANAGER	10
1	PRESIDENT	10
2	CLERK	20
2	ANALYST	20
1	MANAGER	20
1	CLERK	30
1	MANAGER	30
4	SALESMAN	30

9 rows selected.

24) List MGR and the number of employees report to them in the sorted order.

SQL> select mgr, count(*) from emp where mgr is not NULL group by mgr order

by count(*);

MGR	COUNT(*)
7782	1
7788	1
7902	1
7566	2
7839	3
7698	5

6 rows selected.

25) List emp numbers of employees to whom a minimum of 3 people report.

SQL> select mgr,count(*) from emp group by mgr having count(*)>=3;

MGR	COUNT(*)
7698	5
7839	3

26) List dept numbers having a minimum of 3 persons.

SQL> select deptno from emp group by deptno having count(*)>=3;

DEPTNO
10
20
30

27) List names of jobs having a minimum of 3 persons in that job.

SQL> select job from emp group by job having count(*)>=3;

JOB
----CLERK
MANAGER
SALESMAN

28) List names of months in which a minimum of 3 persons joined.

SQL> select to_char(hiredate,'MONTH') from emp group by
to_char(hiredate,'MONTH') having count(*)>=3;

TO_CHAR(H
----DECEMBER

29) List hiredates of employees having 2 or more employees having the same hiredate.

SQL> select hiredate, count(*) from emp group by hiredate having count(*)>=2;

HIREDATE	COUNT(*)
03-DEC-81	2

30) List departments having minimum of 3 people having a minimum of 17 years of experience.