Practical 3

A) Using emp table, perform the following queries :

1. Display the details of all employees

```
26  SELECT * FROM EMP_DHAVAL;
```

Statement processed.

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30
7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20
7788	SCOTT	ANALYST	7566	19-APR-87	3000	-	20
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20
7900	JAMES	CLERK	7698	03-DEC-81	950	-	30
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10

Download CSV
14 rows selected.

2. Display the name and job for all employees.

```
26  SELECT * FROM EMP_DHAVAL;
27  SELECT ENAME,JOB FROM EMP_DHAVAL;
```

ENAME	JOB
KING	PRESIDENT
BLAKE	MANAGER
CLARK	MANAGER
JONES	MANAGER
SCOTT	ANALYST
FORD	ANALYST
SMITH	CLERK
ALLEN	SALESMAN
WARD	SALESMAN
MARTIN	SALESMAN
TURNER	SALESMAN
ADAMS	CLERK
JAMES	CLERK
MILLER	CLERK

Download CSV
14 rows selected.

3. Display name and salary for all employees.

```
28  SELECT ENAME,SAL FROM EMP_DHAVAL;
```

ENAME	SAL
KING	5000
BLAKE	2850
CLARK	2450
JONES	2975
SCOTT	3000
FORD	3000
SMITH	800
ALLEN	1600
WARD	1250
MARTIN	1250
TURNER	1500
ADAMS	1100
JAMES	950
MILLER	1300

Download CSV
14 rows selected.

4. Display the details of all employees who are earning salary greater than 2000.

```
27  SELECT ENAME,JOB FROM EMP_DHAVAL;
28  SELECT ENAME,SAL FROM EMP_DHAVAL;
29  SELECT * FROM EMP_DHAVAL WHERE SAL>2000;
```

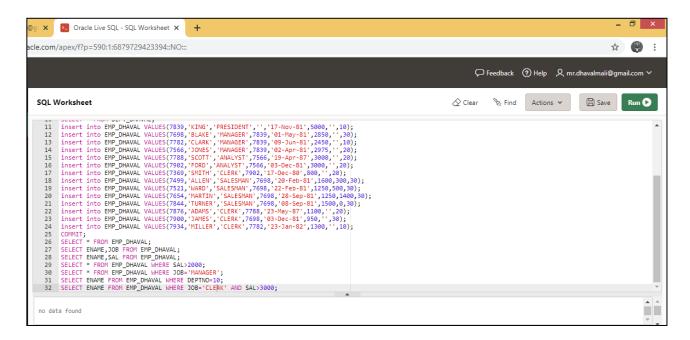| EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30
7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20
7788	SCOTT	ANALYST	7566	19-APR-87	3000	-	20
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20

Download CSV

6 rows selected.

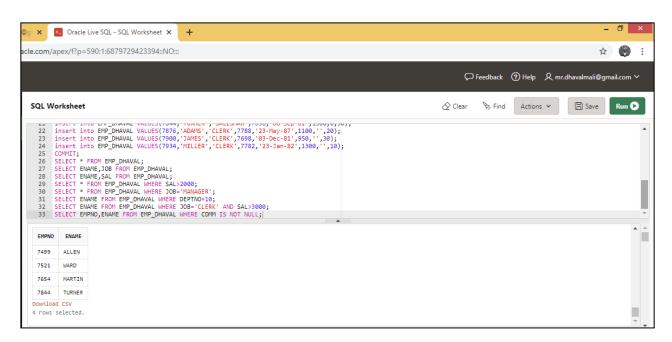5. Display the details of all employees who are working as Manager.

6. Display the names of all employees who are working in department number 10.
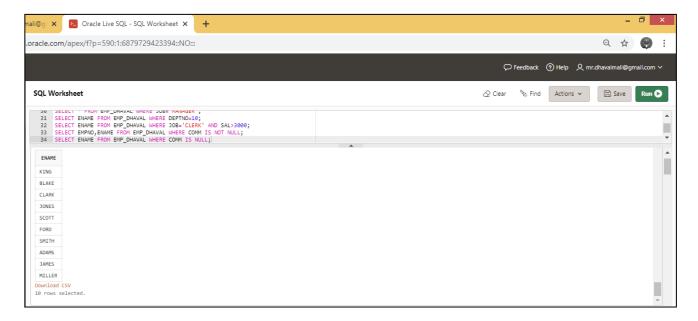
7. Display the name of all employees working as clerk and drawing a salary than 3000.
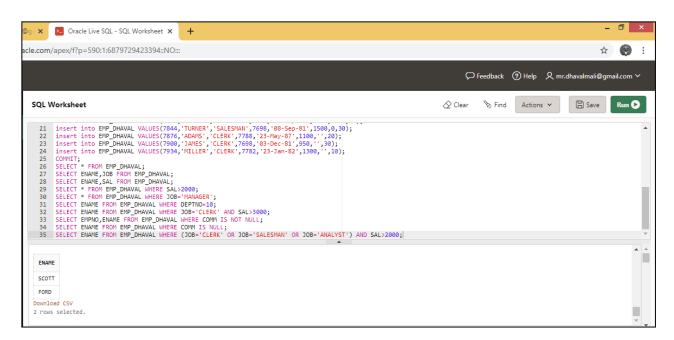

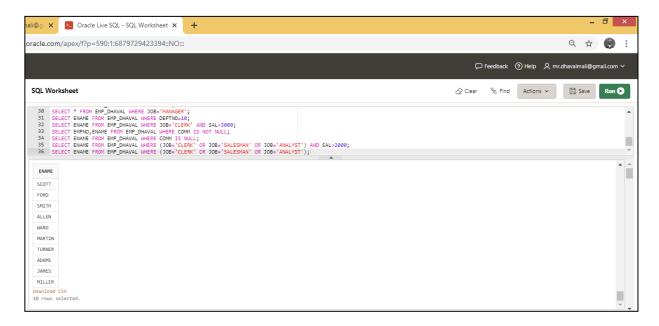8. Display employee number and names of employees who earn commission.

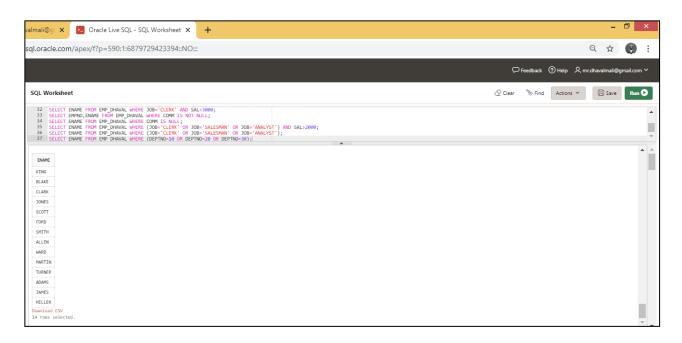9. Display names of employees who do not earn any commission.

10. Display the names of employees who are working as clerk, salesman or analyst and drawing a salary more than 2000.
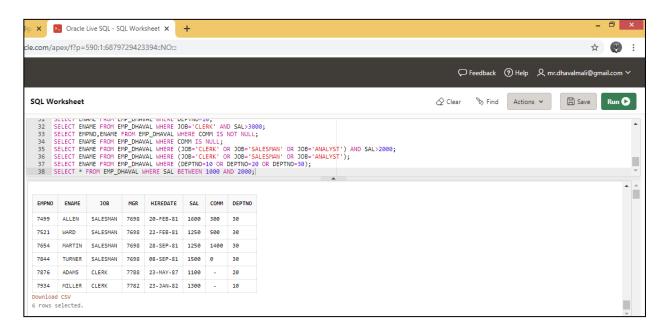
11. Display the names of employees who are working as clerk, salesman or analyst.
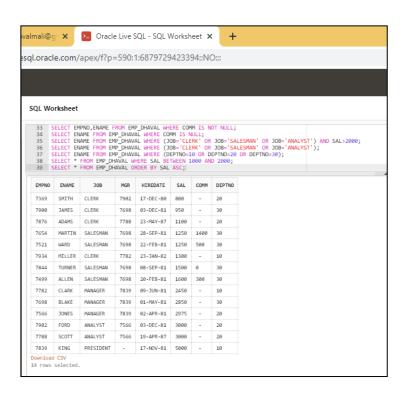

12. Display the names of employees working in department number 10 or 20 or 30.

13. Display the details of employees whose salary lies in the range of 1000 and 2000.

14. List the employees in the ascending order of their salaries.

15. List the Empno, Ename, Sal of all emps working for Mgr 7369.

16. List the employees who are either 'CLERK' or 'ANALYST' in the Desc order.

17. List the employees who are working in Deptno 10 or 20.

18. List the employees whose name have character set 'll' together.

19. List the employees in ascending order of their names.

```
39  SELECT * FROM EMP_DHAVAL ORDER BY SAL ASC;
40  SELECT EMPNO,ENAME,SAL FROM EMP_DHAVAL WHERE MGR=7369;
41  SELECT * FROM EMP_DHAVAL WHERE JOB='CLERK' OR JOB='ANALYST' ORDER BY JOB DESC;
42  SELECT * FROM EMP_DHAVAL WHERE DEPTNO=10 OR DEPTNO=20;
43  SELECT * FROM EMP_DHAVAL WHERE ENAME LIKE '%LL%';
44  SELECT * FROM EMP DHAVAL ORDER BY ENAME ASC;
```
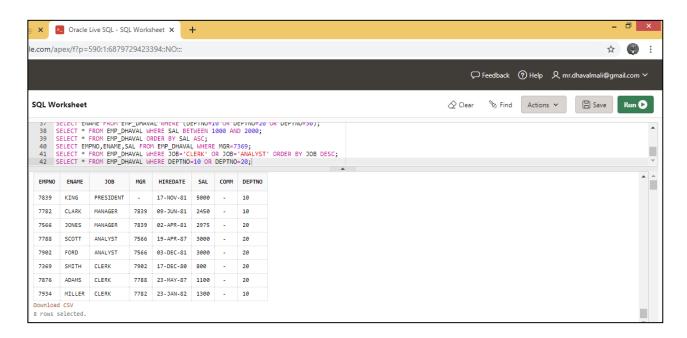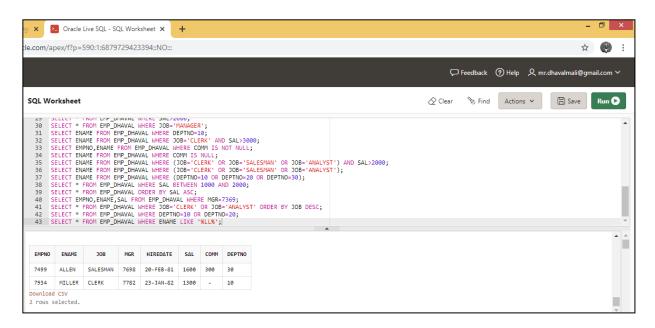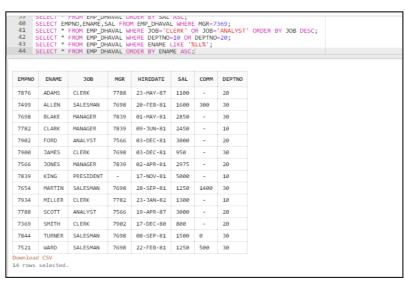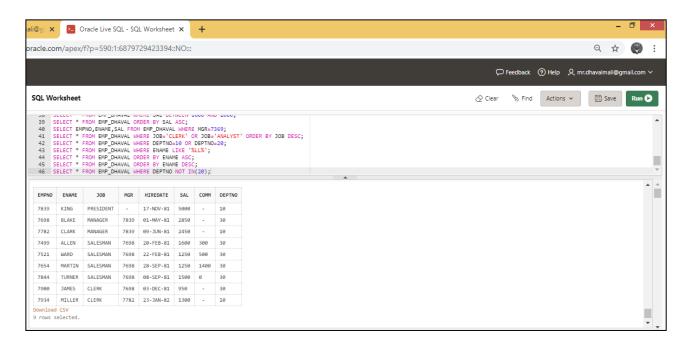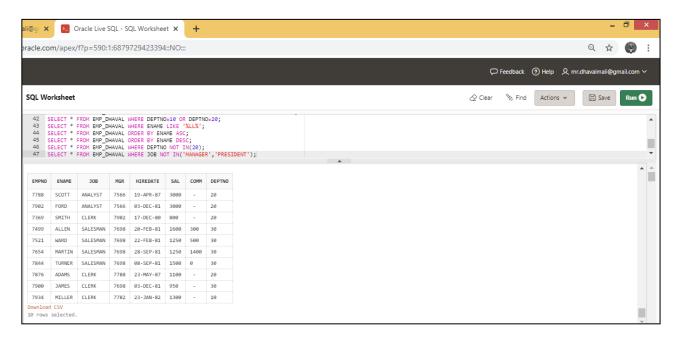
EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30
7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20
7900	JAMES	CLERK	7698	03-DEC-81	950	-	30
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10
7788	SCOTT	ANALYST	7566	19-APR-87	3000	-	20
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30

Download CSV
14 rows selected.

20. List the employees in descending order of their names.

SQL Worksheet

```
41  SELECT * FROM EMP_DHAVAL WHERE JOB='CLERK' OR JOB='ANALYST' ORDER BY JOB DESC;
42  SELECT * FROM EMP_DHAVAL WHERE DEPTNO=10 OR DEPTNO=20;
43  SELECT * FROM EMP_DHAVAL WHERE ENAME LIKE '%LL%';
44  SELECT * FROM EMP_DHAVAL ORDER BY ENAME ASC;
45  SELECT * FROM EMP_DHAVAL ORDER BY ENAME DESC;
```

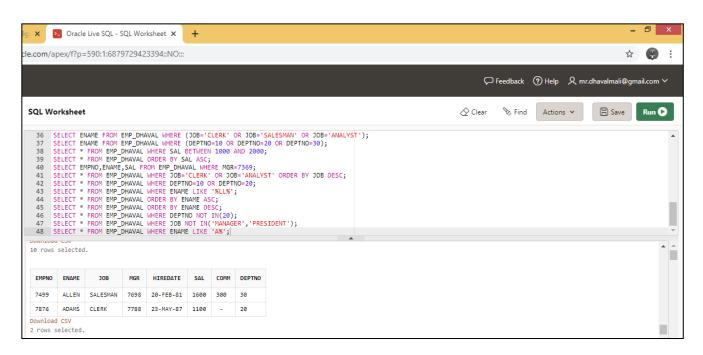| EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20
7788	SCOTT	ANALYST	7566	19-APR-87	3000	-	20
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20
7900	JAMES	CLERK	7698	03-DEC-81	950	-	30
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20
7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20

Download CSV
14 rows selected.

21. List the employees who do not belong to Deptno 20.

22. List all the employees except PRESIDENT AND MANAGER.

23. List the employees whose name starts with A.

24. List all the Clerk of Deptno 20.

25. List the employees whose name ends with S.

26. List the employees who has name of exactly 4 characters.

```
49   SELECT * FROM EMP_DHAVAL WHERE JOB='CLERK' AND DEPTNO=20;
50   SELECT * FROM EMP_DHAVAL WHERE ENAME LIKE '%S';
51   SELECT * FROM EMP_DHAVAL WHERE ENAME LIKE '____';
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30

Download CSV

3 rows selected.

27. List the names of the employees who are working as MANAGER in department 10.

```
50   SELECT * FROM EMP_DHAVAL WHERE ENAME LIKE '%S';
51   SELECT * FROM EMP_DHAVAL WHERE ENAME LIKE '____';
52   SELECT ENAME FROM EMP_DHAVAL WHERE JOB='MANAGER' AND DEPTNO=10;
```

ENAME
CLARK

Download CSV

28. List the total salary of employees working as ANALYST.

```
51   SELECT * FROM EMP_DHAVAL WHERE ENAME LIKE '____';
52   SELECT ENAME FROM EMP_DHAVAL WHERE JOB='MANAGER' AND DEPTNO=10;
53   SELECT SUM(SAL) FROM EMP_DHAVAL WHERE JOB='ANALYST';
```

SUM(SAL)
6000

Download CSV

29. List the minimum, maximum and average salary of the employees.

```
52   SELECT ENAME FROM EMP_DHAVAL WHERE JOB='MANAGER' AND DEPTNO=10;
53   SELECT SUM(SAL) FROM EMP_DHAVAL WHERE JOB='ANALYST';
54   SELECT MIN(SAL),MAX(SAL),AVG(SAL) FROM EMP_DHAVAL;
```

MIN(SAL)	MAX(SAL)	AVG(SAL)
800	5000	2073.2142857142857142857142857142857142 86

Download CSV

30. List the total number of employees working in department 10.

13

```
24  insert into EMP_DHAVAL VALUES(7934,'MILLER','CLERK',7782,'23-Jan-82',1300,'',10);
25  COMMIT;
26  SELECT * FROM EMP_DHAVAL;
27  SELECT COUNT(*) FROM EMP_DHAVAL WHERE DEPTNO=10;
```

COUNT(*)
3

Download CSV

  A. Answer the following queries :

1. Display the total salary of employees department wise.

```
28  SELECT DEPTNO,SUM(SAL) FROM EMP_DHAVAL GROUP BY DEPTNO;
```

DEPTNO	SUM(SAL)
30	9400
10	8750
20	10875

Download CSV
3 rows selected.

2. Display the total salary of employees job wise in ascending order of job.

```
28  SELECT DEPTNO,SUM(SAL) FROM EMP_DHAVAL GROUP BY DEPTNO;
29  SELECT JOB,SUM(SAL) FROM EMP_DHAVAL GROUP BY JOB ORDER BY JOB ASC;
```

JOB	SUM(SAL)
ANALYST	6000
CLERK	4150
MANAGER	8275
PRESIDENT	5000
SALESMAN	5600

Download CSV
5 rows selected.

3. Display the total number of employees with specific job.

```
28   SELECT DEPTNO,SUM(SAL) FROM EMP_DHAVAL GROUP BY DEPTNO;
29   SELECT JOB,SUM(SAL) FROM EMP_DHAVAL GROUP BY JOB ORDER BY JOB ASC;
30   SELECT JOB,COUNT(*) FROM EMP_DHAVAL GROUP BY JOB;
```

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

Download CSV
5 rows selected.

4. Display the total number of employees working in each department.

```
30   SELECT JOB,COUNT(*) FROM EMP_DHAVAL GROUP BY JOB;
31   SELECT DEPTNO,COUNT(*) FROM EMP_DHAVAL GROUP BY DEPTNO
```

DEPTNO	COUNT(*)
30	6
10	3
20	5

Download CSV
3 rows selected.

5. Display the total salary of employees specific to job and department in ascending order of job.

```
31   SELECT DEPTNO,COUNT(*) FROM EMP_DHAVAL GROUP BY DEPTNO;
32   SELECT JOB,DEPTNO,SUM(SAL) FROM EMP_DHAVAL GROUP BY JOB,DEPTNO ORDER BY JOB ASC;
```

JOB	DEPTNO	SUM(SAL)
ANALYST	20	6000
CLERK	10	1300
CLERK	20	1900
CLERK	30	950
MANAGER	10	2450
MANAGER	20	2975
MANAGER	30	2850
PRESIDENT	10	5000
SALESMAN	30	5600

Download CSV
9 rows selected.

6. Display the total salary of the employees specific to job when employee count is greater than 1.

```
31  SELECT DEPTNO,COUNT(*) FROM EMP_DHAVAL GROUP BY DEPTNO;
32  SELECT JOB,DEPTNO,SUM(SAL) FROM EMP_DHAVAL GROUP BY JOB,DEPTNO ORDER BY JOB ASC;
33  SELECT JOB,SUM(SAL),COUNT(*) FROM EMP_DHAVAL GROUP BY JOB HAVING COUNT(JOB)>1;
```

JOB	SUM(SAL)	COUNT(*)
ANALYST	6000	2
CLERK	4150	4
SALESMAN	5600	4
MANAGER	8275	3

Download CSV
4 rows selected.

7. Display the unique jobs of employees.

```
32  SELECT JOB,DEPTNO,SUM(SAL) FROM EMP_DHAVAL GROUP BY JOB,DEPTNO ORDER BY JOB ASC;
33  SELECT JOB,SUM(SAL),COUNT(*) FROM EMP_DHAVAL GROUP BY JOB HAVING COUNT(JOB)>1;
34  SELECT DISTINCT JOB FROM EMP_DHAVAL;
```

JOB
ANALYST
CLERK
SALESMAN
MANAGER
PRESIDENT

Download CSV
5 rows selected.