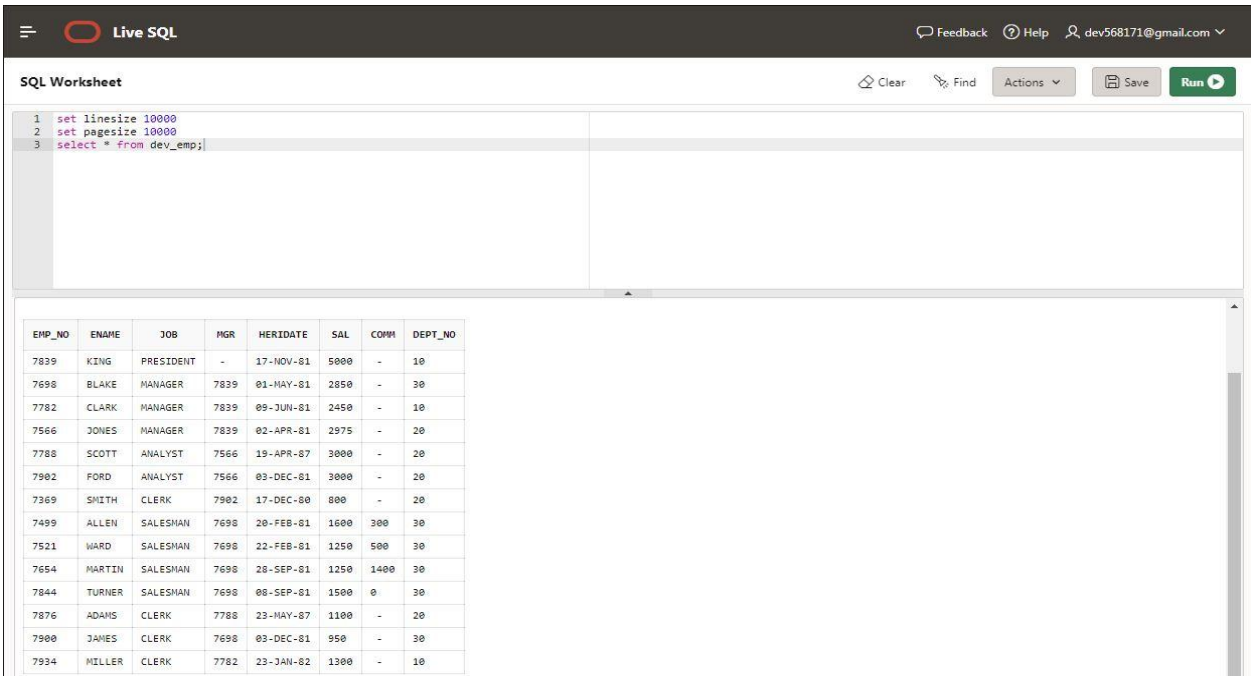
Name: DEV PARMAR
Roll no: 39
Class: FYCS

PRACTICAL 3

A) U sing emp table, perform the following queries:
1) Display the details of all employees.



EMP_NO	ENAME	JOB	MGR	HERIDATE	SAL	COMM	DEPT_NO
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

2) Display the name and job for all employees.

SQL Worksheet

Clear Find Actions Save Run

```
1  select Ename,Job from dev_emp;
```

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.

SQL Worksheet

Clear Find Actions Save Run

```
1  select Ename,SAL from dev_emp;
```

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.

SQL Worksheet

Clear Find Actions Save Run

```
1 select * from dev_emp
2 where SAL>2000;
```

EMP_NO	ENAME	JOB	MGR	HERIDATE	SAL	COMM	DEPT_NO
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.

SQL Worksheet

Clear Find Actions Save Run

```
1 select * from dev_emp
2 where Job='MANAGER';
```

EMP_NO	ENAME	JOB	MGR	HERIDATE	SAL	COMM	DEPT_NO
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

Download CSV
3 rows selected.

6) Display the names of all employees who are working in department number 10.

SQL Worksheet

Clear Find Actions Save Run

```
1 select * from dev_emp
2 where dept_no=10;
```

EMP_NO	ENAME	JOB	MGR	HERIDATE	SAL	COMM	DEPT_NO
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10
7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10

Download CSV
3 rows selected.

7) Display the names of all employees working as clerk and drawing a salary more than 3000.

SQL Worksheet

Clear Find Actions Save Run

```
1  select * from dev_emp
2  where Job='CLERK' and SAL>3000;
```

no data found

8) Display employee number and names for employees who earn commission.

SQL Worksheet

Clear Find Actions Save Run

```
1  select emp_no,Ename,comm from dev_emp
2  where comm>0;
```

EMP_NO	ENAME	COMM
7499	ALLEN	300
7521	WARD	500
7654	MARTIN	1400

Download CSV

3 rows selected.

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

SQL Worksheet

Clear Find Actions Save Run

```
1  select emp_no,Ename,comm from dev_emp
2  where comm is null;
```

EMP_NO	ENAME	COMM
7839	KING	-
7698	BLAKE	-
7782	CLARK	-
7566	JONES	-
7788	SCOTT	-
7902	FORD	-
7369	SMITH	-
7876	ADAMS	-
7900	JAMES	-
7934	MILLER	-

Download CSV

10 rows selected.

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.

SQL Worksheet

Clear | Find | Actions | Save | Run

```
1  select Ename from dev_emp
2  where dept_no in(10,20,30);
```

ENAME
KING
BLAKE
CLARK
JONES
SCOTT
FORD
SMITH
ALLEN
WARD
MARTIN
TURNER
ADAMS
JAMES
MILLER

Download CSV

14 rows selected.

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

SQL Worksheet

Clear | Find | Actions | Save | Run

```
1  select*from dev_emp
2  where SAL between 1000 and 3000;
```

EMP_NO	ENAME	JOB	MGR	HERIDATE	SAL	COMM	DEPT_NO
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
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
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10

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

SQL Worksheet

Clear Find Actions Save Run

```
1  select*from dev_emp
2  order by SAL ASC;
```

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

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

SQL Worksheet

Clear Find Actions Save Run

```
1  select emp_no,Ename,SAL from dev_emp
2  where MGR=7369;
```

no data found

16) List the employees who are either ‘CLERK’ or ‘ANALYST’ in the Desc order.

SQL Worksheet

Clear Find Actions Save Run

```
1  select*from dev_emp where Job='CLERK' or Job='ANALYST'
2  order by Job desc;
```

EMP_NO	ENAME	JOB	MGR	HERIDATE	SAL	COMM	DEPT_NO
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20
7900	JAMES	CLERK	7698	03-DEC-81	950	-	30
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10
7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20
7788	SCOTT	ANALYST	7566	19-APR-87	3000	-	20

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

SQL Worksheet

Clear Find Actions Save Run

```
1  select*from dev_emp
2  where dept_no in(10,20);
```

EMP_NO	ENAME	JOB	MGR	HERIDATE	SAL	COMM	DEPT_NO
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10
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
7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10

18) List the employees whose name have a character set ‘ll’ together.

SQL Worksheet

Clear Find Actions Save Run

```
1  select*from dev_emp
2  where Ename like '%LL%';
```

EMP_NO	ENAME	JOB	MGR	HERIDATE	SAL	COMM	DEPT_NO
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10

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

SQL Worksheet

Clear Find Actions Save Run

```
1  select*from dev_emp
2  order by Ename ASC;
```

EMP_NO	ENAME	JOB	MGR	HERIDATE	SAL	COMM	DEPT_NO
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

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

SQL Worksheet

Clear Find Actions Save Run

```
1  select*from dev_emp
2  order by Ename DESC;
```

EMP_NO	ENAME	JOB	MGR	HERIDATE	SAL	COMM	DEPT_NO
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

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

SQL Worksheet

Clear Find Actions Save Run

```
1  select*from dev_emp
2  where dept_no not in 20;
```

EMP_NO	ENAME	JOB	MGR	HERIDATE	SAL	COMM	DEPT_NO
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
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
7900	JAMES	CLERK	7698	03-DEC-81	950	-	30
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10

22) List all the employees except PRESIDENT and MANAGER.

SQL Worksheet

Clear | Find | Actions | Save | Run

```
1  select*from dev_emp
2  where Job not in ('PRESIDENT','MANAGER');
```

EMP_NO	ENAME	JOB	MGR	HERIDATE	SAL	COMM	DEPT_NO
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

23) List the employees whose name starts with A.

SQL Worksheet

Clear | Find | Actions | Save | Run

```
1  select*from dev_emp
2  where Ename like 'A%';
```

EMP_NO	ENAME	JOB	MGR	HERIDATE	SAL	COMM	DEPT_NO
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20

24) List all the Clerks of Deptno 20.

SQL Worksheet

Clear | Find | Actions | Save | Run

```
1  select*from dev_emp
2  where Job='CLERK'and dept_no=20;
```

EMP_NO	ENAME	JOB	MGR	HERIDATE	SAL	COMM	DEPT_NO
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20
7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20

25) List the employees whose names ends with S.

SQL Worksheet

Clear Find Actions Save Run

```
1  select*from dev_emp
2  where Ename like'%S';
```

EMP_NO	ENAME	JOB	MGR	HERIDATE	SAL	COMM	DEPT_NO
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20
7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20
7900	JAMES	CLERK	7698	03-DEC-81	950	-	30

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

SQL Worksheet

Clear Find Actions Save Run

```
1  select*from dev_emp
2  where Ename like '____';
```

EMP_NO	ENAME	JOB	MGR	HERIDATE	SAL	COMM	DEPT_NO
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

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

SQL Worksheet

Clear Find Actions Save Run

```
1  select * from dev_emp
2  where Job='MANAGER' and Dept_no=10;
3
```

EMP_NO	ENAME	JOB	MGR	HERIDATE	SAL	COMM	DEPT_NO
7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10

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

SQL Worksheet

Clear Find Actions Save Run

```
1  select sum(SAL)
2  from dev_emp
3  where Job='ANALYST';
```

SUM(SAL)
6000

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

SQL Worksheet

Clear Find Actions Save Run

```
1  select MIN(SAL),MAX(SAL),AVG(SAL) from dev_emp;
```

MIN(SAL)	MAX(SAL)	AVG(SAL)
800	5000	2073.21428571428571428571428571428571428571

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

SQL Worksheet

Clear Find Actions Save Run

```
1  select dept_no, count(*)
2  from dev_emp
3  group by dept_no;
```

DEPT_NO	COUNT(*)
30	6
10	3
20	5

B) Answer the following queries:

1) Display the total salary of employees department wise.

SQL Worksheet

Clear Find Actions Save Run

```
1  select dept_no, sum(SAL)from dev_emp
2  group by dept_no;
```

DEPT_NO	SUM(SAL)
30	9400
10	8750
20	10875

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

SQL Worksheet

Clear Find Actions Save Run

```
1  select Job,sum(SAL)
2  from dev_emp
3  group by Job
4  order by Job ASC;
```

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

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

SQL Worksheet

Clear Find Actions Save Run

```
1  select Job, count(*)
2  from dev_emp
3  group by Job;
```

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

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

SQL Worksheet

Clear Find Actions Save Run

```
1  select dept_no, count(*)
2  from dev_emp
3  group by dept_no;
```

DEPT_NO	COUNT(*)
30	6
10	3
20	5

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

SQL Worksheet

Clear Find Actions Save Run

```
1 select Job,dept_no,sum(SAL)
2 from dev_emp
3 group by Job,dept_no
4 order by Job;
```

JOB	DEPT_NO	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

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

SQL Worksheet

Clear Find Actions Save Run

```
1 select sum(SAL),count(Job) from dev_emp
2 group by Job
3 having count(Job)>1;
```

SUM(SAL)	COUNT(JOB)
6000	2
4150	4
5600	4
8275	3

7) Display unique jobs of employees.

SQL Worksheet

Clear Find Actions Save Run

```
1 select distinct Job
2 from dev_emp
3 ;
```

JOB
ANALYST
CLERK
SALESMAN
MANAGER
PRESIDENT