

DBMS PRACTICAL 3

1. Using emp table, perform the following queries:

- Display the details of all employees

Results

Explain

Describe

Saved SQL

History

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	03-DEC-81	3000	-	20
7902	ford	analyst	7566	03-DEC-81	3000	-	20
7369	smith	clerk	7902	17-DEC-81	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	milller	clerk	7782	23-JAN-82	1300	-	10

14 rows returned in 0.02 seconds

CSV Export

- Display the name and job for all employees

```
select ename, job from emp_dharmit1
```

Results	Explain	Describe	Saved SQL	History
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			
milller	clerk			

14 rows returned in 0.00 seconds [CSV Export](#)

- Display name and salary for all employees

```
select ename, sal from emp_dharmit1
```

Results Explain Describe Saved SQL Hi

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

14 rows returned in 0.00 seconds [CSV E](#)

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

```
select * from emp_dharmit1
where sal>2000;
```

Results Explain Describe Saved SQL History

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	03-DEC-81	3000	-	20
7902	ford	analyst	7566	03-DEC-81	3000	-	20

6 rows returned in 0.03 seconds [CSV Export](#)

- Display the details of all employees who are working as manager

```
select * from emp_dharmit1
where job='manager';
```

Results Explain Describe Saved SQL History

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
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

3 rows returned in 0.02 seconds [CSV Export](#)

- Display the names of all employees who are working in department number 10

```
select * from emp_dharmit1
where deptno=10;
```

Results Explain Describe Saved SQL History

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
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

3 rows returned in 0.00 seconds [CSV Export](#)

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

```
select * from emp_dharmitt1
where job='clerk' or sal>3000;
```

Results

Explain

Describe

Saved SQL

History

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	king	president	-	17-NOV-81	5000	-	10
7369	smith	clerk	7902	17-DEC-81	800	-	20
7876	adams	clerk	7788	23-MAY-87	1100	-	20
7900	james	clerk	7698	03-DEC-81	950	-	30
7934	millier	clerk	7782	23-JAN-82	1300	-	10

5 rows returned in 0.00 seconds

CSV Export

- Display employee number and names for employee who earn commission

```
select * from emp_dharmit1
where comm is not null;
```

Results

Explain

Describe

Saved SQL

History

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
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

4 rows returned in 0.00 seconds

CSV Export

- Display names of employees who do not earn any commission

```
select * from emp_dharmit1
where comm is null;
```

Results

Explain

Describe

Saved SQL

History

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	03-DEC-81	3000	-	20
7902	ford	analyst	7566	03-DEC-81	3000	-	20
7369	smith	clerk	7902	17-DEC-81	800	-	20
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

10 rows returned in 0.00 seconds

CSV Export

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

```
select * from emp_dharmit1
where job='clerk' or job='salesman' or job='analyst' or sal>2000;
```

Results Explain Describe Saved SQL History

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	03-DEC-81	3000	-	20
7902	ford	analyst	7566	03-DEC-81	3000	-	20
7369	smith	clerk	7902	17-DEC-81	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	millier	clerk	7782	23-JAN-82	1300	-	10

14 rows returned in 0.01 seconds

[CSV Export](#)

- Display the names of employees who are working as clerk, salesman or analyst

```
select * from emp_dharmit1
where job='clerk' or job='salesman' or job='analyst';
```

Results Explain Describe Saved SQL History

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7788	scott	analyst	7566	03-DEC-81	3000	-	20
7902	ford	analyst	7566	03-DEC-81	3000	-	20
7369	smith	clerk	7902	17-DEC-81	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	millier	clerk	7782	23-JAN-82	1300	-	10

10 rows returned in 0.00 seconds

[CSV Export](#)

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

```
select * from emp_dharmit1
where deptno=10 or deptno=20 or deptno=30;
```

Results Explain Describe Saved SQL History

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	03-DEC-81	3000	-	20
7902	ford	analyst	7566	03-DEC-81	3000	-	20
7369	smith	clerk	7902	17-DEC-81	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	millier	clerk	7782	23-JAN-82	1300	-	10

14 rows returned in 0.00 seconds

[CSV Export](#)

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

```
select * from emp_dharmit1
where sal between 1000 and 2000;
```

Results Explain Describe Saved SQL History

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
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	milller	clerk	7782	23-JAN-82	1300	-	10

6 rows returned in 0.01 seconds

[CSV Export](#)

- List the employees in the ascending order of their salary

```
select * from emp_dharmit1
order by sal asc;
```

Results Explain Describe Saved SQL History

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	smith	clerk	7902	17-DEC-81	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	milller	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	03-DEC-81	3000	-	20
7839	king	president	-	17-NOV-81	5000	-	10

14 rows returned in 0.01 seconds

[CSV Export](#)

- List the Empno, Ename, Sal, of all emps working for mgr 7369

```
select * from emp_dharmit1
where mgr=7369;
```

Results Explain Describe Saved

no data found

- List the employees who are either 'CLERK' or 'ANALYST' in the desc order

```
select * from emp_dharmit1
where job='clerk' or job='analyst'
order by job desc;
```

Results Explain Describe Saved SQL History

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	smith	clerk	7902	17-DEC-81	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	03-DEC-81	3000	-	20

6 rows returned in 0.02 seconds

[CSV Export](#)

- List the employees who are working in Deptno 10 or 20

```
select * from emp_dharmit1
where deptno=10 or deptno=20;
```

Results Explain Describe Saved SQL History

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
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	03-DEC-81	3000	-	20
7902	ford	analyst	7566	03-DEC-81	3000	-	20
7369	smith	clerk	7902	17-DEC-81	800	-	20
7876	adams	clerk	7788	23-MAY-87	1100	-	20
7934	miller	clerk	7782	23-JAN-82	1300	-	10

8 rows returned in 0.01 seconds

[CSV Export](#)

- List the employees whose name have a character set 'll' together

```
select * from emp_dharmit1
where ename like '%ll%';
```

Results Explain Describe Saved SQL History

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7499	allen	salesman	7698	20-FEB-81	1600	300	30
7934	miller	clerk	7782	23-JAN-82	1300	-	10

2 rows returned in 0.02 seconds

[CSV Export](#)

- List the employees in ascending order of their names

```
select * from emp_dharmit1
order by ename asc;
```

Results Explain Describe Saved SQL History

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	milller	clerk	7782	23-JAN-82	1300	-	10
7788	scott	analyst	7566	03-DEC-81	3000	-	20
7369	smith	clerk	7902	17-DEC-81	800	-	20
7844	turner	salesman	7698	08-SEP-81	1500	0	30
7521	ward	salesman	7698	22-FEB-81	1250	500	30

14 rows returned in 0.00 seconds

[CSV Export](#)

- List the employees in descending order of their names

```
select * from emp_dharmit1
order by ename desc;
```

Results Explain Describe Saved SQL History

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-81	800	-	20
7788	scott	analyst	7566	03-DEC-81	3000	-	20
7934	milller	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

14 rows returned in 0.00 seconds

[CSV Export](#)

- List the employees except PRESIDENT and MANAGER

```
select * from emp_dharmit1
where job not in ('president','manager');
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7788	scott	analyst	7566	03-DEC-81	3000	-	20
7902	ford	analyst	7566	03-DEC-81	3000	-	20
7369	smith	clerk	7902	17-DEC-81	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

10 rows returned in 0.02 seconds [CSV Export](#)

- List the employees whose name starts with A

```
select * from emp_dharmit1
where ename like 'a%';
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7499	allen	salesman	7698	20-FEB-81	1600	300	30
7876	adams	clerk	7788	23-MAY-87	1100	-	20

2 rows returned in 0.01 seconds [CSV Export](#)

- List all the Clerks of Deptno 20

```
select * from emp_dharmit1
where job='clerk' and deptno=20;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	smith	clerk	7902	17-DEC-81	800	-	20
7876	adams	clerk	7788	23-MAY-87	1100	-	20

2 rows returned in 0.00 seconds [CSV Export](#)

- List the employees whose name end with S

```
select * from emp_dharmit1
where ename like '%s';
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
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

3 rows returned in 0.00 seconds [CSV Export](#)

- List the employees who has name of exactly 4 character

```
select * from emp_dharmit1
where ename like '____';
```

Results Explain Describe Saved SQL History

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

3 rows returned in 0.00 seconds

[CSV Export](#)

- List the names of the employees who are working as MANAGER in deptno 10

```
select * from emp_dharmit1
where job='manager' and deptno=10;
```

Results Explain Describe Saved SQL History

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7782	clark	manager	7839	09-JUN-81	2450	-	10

1 rows returned in 0.00 seconds

[CSV Export](#)

- List the total salary of employees working as ANALYST

```
select sum(sal) from emp_dharmit1
where job='analyst';
```

Results Explain Describe Saved SQL History

SUM(SAL)
6000

1 rows returned in 0.00 seconds

[CSV E](#)

- List the minimum, maximum and average salary of the employees

```
select avg(sal), max(sal), min(sal) from emp_dharmit1;
```

Results Explain Describe Saved SQL History

AVG(SAL)	MAX(SAL)	MIN(SAL)
2073.21428571428571428571428571429	5000	800

1 rows returned in 0.00 seconds

[CSV Export](#)

- List the total number of employees working in deptno 10

```
select count(*) from emp_dharmit1
where deptno=10;
```

Results Explain Describe Saved SQL

COUNT(*)
3

1 rows returned in 0.00 seconds

[CSV](#)

2 Answer the following queries:

- Display the total salary of employees department wise

```
select deptno, sum(sal) from emp_dharmit1  
group by deptno;
```

Results Explain Describe Saved SQL History

DEPTNO	SUM(SAL)
30	9400
20	10875
10	8750

3 rows returned in 0.03 seconds

[CSV Export](#)

- Display the total salary of employees job wise in ascending order in job

```
select job, sum(sal) from emp_dharmit1  
group by job  
order by job asc;
```

Results Explain Describe Saved SQL History

JOB	SUM(SAL)
analyst	6000
clerk	4150
manager	8275
president	5000
salesman	5600

5 rows returned in 0.00 seconds

[CSV Export](#)

- Display the total number of employees with specific job

```
select job, count(*) from emp_dharmit1  
group by job;
```

Results Explain Describe Saved SQL History

JOB	COUNT(*)
salesman	4
president	1
clerk	4
manager	3
analyst	2

5 rows returned in 0.00 seconds

[CSV Export](#)

- Display the total number of employees working in each department

```
select deptno, count(*) from emp_dharmit1  
group by deptno;
```

Results Explain Describe Saved SQL History

DEPTNO	COUNT(*)
30	6
20	5
10	3

3 rows returned in 0.01 seconds

[CSV Export](#)

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

```
select job, deptno, sum(sal) from emp_dharmit1
group by job, deptno
order by job asc;
```

Results Explain Describe Saved SQL History

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

9 rows returned in 0.02 seconds

[CSV Export](#)

- Display the total salary of employees specific to job when employee come to greater than 1

```
select job, sum(sal), count(*) from emp_dharmit1
group by job
having count(job)>1;
```

Results Explain Describe Saved SQL History

JOB	SUM(SAL)	COUNT(*)
salesman	5600	4
clerk	4150	4
manager	8275	3
analyst	6000	2

4 rows returned in 0.02 seconds

[CSV Export](#)

- Display unique jobs of employees

```
select distinct job from emp_dharmit1;
```

Results Explain Describe Saved SQL History

JOB
salesman
president
clerk
manager
analyst

5 rows returned in 0.00 seconds

[CSV Export](#)