

DBMS LABORATORY 6

LAB RECORD

NAME : ANIRBAN HAZRA

SECTION : CSE - 16

ROLL : 2005643

DATE : 25/03/2022

ASSIGNMENT ON GROUP BY

TABLE USED FOR THIS ASSIGNMENT: “EMP TABLE” -

```
SQL> select * from emp;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
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
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7788	SCOTT	ANALYST	7566	09-NOV-81	3000		20
7839	KING	PRESIDENT		17-NOV-81	5000		10
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7876	ADAMS	CLERK	7788	23-SEP-81	1100		20
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7934	MILLER	CLERK	7782	23-JAN-82	1300		10
5643	ANIRBAN						

15 rows selected.

QUERIES

1. Find the total annual sal to distribute job wise in the year 81

```
SQL> select job,sum(12*sal) from emp where to_char(hiredate,'YYYY') = '1981' group by job ;
```

JOB	SUM(12*SAL)
SALESMAN	67200
MANAGER	99300
ANALYST	72000
PRESIDENT	60000
CLERK	24600

2. Display the total sal of emps belong to deptno

```
SQL> select deptno , sum(sal) from emp group by deptno ;
```

DEPTNO	SUM(SAL)
20	10875
30	9400
10	8750

3. Display the number of emps for each job group deptno wise

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

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

10 rows selected.

4. List the dept details where at least two emps are working.

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

DEPTNO	COUNT(*)
20	5
30	6
10	3

5. Display the deptno, number of emps, max sal of each deptno.

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

DEPTNO	COUNT(*)	MAX(SAL)
20	5	3000
30	6	2850
10	3	5000

```
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```

6. Display deptno, no of emps where atleast two emps are CLERKS

```
SQL> select deptno , count(*) from emp where job = 'CLERK' group by deptno having count(*) >= 2 ;
```

DEPTNO	COUNT(*)
20	2

7. List the details of the dept where the max no of emps are working

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

DEPTNO
30

8. List the name, job, Manager, salary, deptno dept wise.

```
SQL> select ename , job , mgr , sal , deptno from emp order by deptno ;
```

ENAME	JOB	MGR	SAL	DEPTNO
CLARK	MANAGER	7839	2450	10
MILLER	CLERK	7782	1300	10
KING	PRESIDENT		5000	10
JONES	MANAGER	7839	2975	20
SMITH	CLERK	7902	800	20
SCOTT	ANALYST	7566	3000	20
FORD	ANALYST	7566	3000	20
ADAMS	CLERK	7788	1100	20
WARD	SALESMAN	7698	1250	30
TURNER	SALESMAN	7698	1500	30
ALLEN	SALESMAN	7698	1600	30
JAMES	CLERK	7698	950	30
MARTIN	SALESMAN	7698	1250	30
BLAKE	MANAGER	7839	2850	30

ANIRBAN

15 rows selected.

9. List the names of emps who are getting the highest salary dept wise.

```
SQL> select ename , deptno from emp where sal in (select max(sal) from emp group by deptno) ;
```

ENAME	DEPTNO
BLAKE	30
SCOTT	20
KING	10
FORD	20

10. List the no of emps in each dept where the number is more than 3

```
SQL> select deptno,count(*) from emp group by deptno having count(*) < 3;
```

DEPTNO	COUNT(*)
	1

11. Create a sequence starting from 10 incremented by 3.

```
SQL> create sequence s4 increment by 3 start with 10 ;
```

Sequence created.

```
SQL> Anirban Hazra
```

THANK

YOU
