

Advanced Database Management System LAB

(Assignment-7)

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Batch - B4

● TOPIC - Use of different SQLclauses

Objective: To understand the use of group by and having clause and execute the SQL commands using JOIN

Write the SQL Queries for the following queries (use emp_table and dept_table of Experiment 4).

➤ CODE : (EMP TABLE)

```
select * from scott.emp
```

OUTPUT :

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

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14 rows selected.

➤ **CODE : (DEPT TABLE)**

```
select * from scott.dept
```

OUTPUT :

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

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4 rows selected.

1) List the Deptno where there are no emps.

CODE -

```
SELECT DNAME FROM scott.dept
WHERE
NOT EXISTS (SELECT * FROM scott.emp WHERE dept.DEPTNO =
emp.DEPTNO)
```

OUTPUT -

DNAME
OPERATIONS

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2) List the No.of emp's and Avg salary within each department for each job.

CODE -

```
select count(*), avg(sal), deptno, job from scott.emp  
group by deptno, job;
```

OUTPUT -

COUNT(*)	AVG(SAL)	DEPTNO	JOB
1	2975	20	MANAGER
1	5000	10	PRESIDENT
2	3000	20	ANALYST
1	1300	10	CLERK
1	2450	10	MANAGER
4	1400	30	SALESMAN
2	950	20	CLERK
1	2850	30	MANAGER
1	950	30	CLERK

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9 rows selected.

3) Find the maximum average salary drawn for each job except for 'President'.

CODE -

```
select max(avg(sal)) from scott.emp  
where job != 'PRESIDENT' group by job;
```

OUTPUT -

MAX(AVG(SAL))
3000

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

CODE -

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

OUTPUT -

DEPTNO	COUNT(*)
30	6
10	3
20	5

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3 rows selected.

5) List the no. of emps in each department where the no. is more than 3.

CODE -

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

OUTPUT -

DEPTNO	COUNT(*)
30	6
20	5

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2 rows selected.

