**Practical no.-**8

**Title:**Execute Queries using the select command with where,having,group by and order by clauses.

**Roll No.:** 15 **Batch-** A **Date of Performance:** 08-Oct-22

SQL> conn;

Enter user-name: Aditya

Enter password:

Connected.

**Practical Related Question:**

SQL>select \* from emp;

EMPNO EMPNAME SALARY PHNO

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101 Sachin 35000 9087654321

103 Anurag 45000 8765439021

104 Zaheer 50000 7590654301

105 Shubhangi 55000 9527693431

106 Rohit 60000 9823382659

5 rows selected.

SQL>select \* from dept;

DEPTNO EMPNO DEPTNAME LOCATION JOBTYPE

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1 101 Sales Pune Worker

1 102 Sales Pune Worker

2 103 Production Nagpur Manager

2 104 Production Nagpur Manager

3 105 Testing Nashik Admin

3 106 Testing Nashik Admin

2 107 Production Nagpur Manager

2 108 Production Nagpur Manager

2 109 Production Nagpur Manager

2 110 Production Nagpur Manager

**1)**

a) SQL> select deptno,sum(salary) from Emp,Dept where Emp.Empno=Dept.Empno group by deptno;

DEPTNO SUM(SALARY)

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1 35000

2 95000

3 115000

3 rows selected.

b) SQL> select empno,deptno from Dept order by deptname desc;

EMPNO DEPTNO

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105 3

106 3

102 1

101 1

104 2

103 2

6 rows selected.

SQL> select empno,deptno from Dept order by deptname asc;

EMPNO DEPTNO

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103 2

104 2

102 1

101 1

106 3

105 3

6 rows selected.

c)SQL> select min(salary) from Emp e,Dept d where e.Empno=d.Empno group by deptno;

MIN(SALARY)

--------------------

35000

45000

55000

3 rows selected.

d)SQL> select empno,jobtype from Dept order by deptname desc;

EMPNO JOBTYPE

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105 Admin

106 Admin

102 Worker

101 Worker

104 Manager

103 Manager

6 rows selected.

SQL> select empno,jobtype from Dept order by deptname asc;

EMPNO JOBTYPE

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103 Manager

104 Manager

102 Worker

101 Worker

106 Admin

105 Admin

6 rows selected.

**2)**

a) SQL> select min(salary) from Emp e,Dept d where e.Empno=d.Empno group by deptno;

MIN(SALARY)

--------------------

35000

45000

55000

3 rows selected.

b) SQL> select deptno,sum(salary) from Emp,Dept where Emp.Empno=Dept.Empno group by deptno;

DEPTNO SUM(SALARY)

------------------------------------------

1 35000

2 95000

3 115000

3 rows selected.

c)SQL> select \* from dept where deptno IN(select deptno from dept group by deptno having count(\*)>5);

DEPTNO EMPNO DEPTNAME LOCATION JOBTYPE

----------------------------------------------------------------------------------

2 103 Production Nagpur Manager

2 104 Production Nagpur Manager

2 107 Production Nagpur Manager

2 108 Production Nagpur Manager

2 109 Production Nagpur Manager

2 110 Production Nagpur Manager

6 rows selected.

d)SQL> select \* from emp order by empname asc;

EMPNO EMPNAME SALARY PHNO

---------------------------------------------------------------------

103 Anurag 45000 8765439021

106 Rohit 60000 9823382659

101 Sachin 35000 9087654321

105 Shubhangi 55000 9527693431

104 Zaheer 50000 7590654301

**Exercise:**

**1)**

a)SQL> select jobtype,sum(salary) from Emp,Dept where Emp.Empno=Dept.Empno group by jobtype;

JOBTYPE SUM(SALARY)

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Manager 95000

Admin 115000

Worker 35000

b)SQL> select deptname,min(salary) from Emp e,Dept d where e.Empno=d.Empno group by deptname;

DEPTNAME MIN(SALARY)

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Testing 55000

Sales 35000

Production 45000

c)SQL> select deptname,count(empno) from dept group by deptname;

DEPTNAME COUNT(EMPNO)

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Testing 2

Sales 2

Production 6

d)SQL>select \* from emp order by salary asc;

EMPNO EMPNAME SALARY PHNO

------------------------------------------------------------

101 Sachin 35000 9087654321

103 Anurag 45000 8765439021

104 Zaheer 50000 7590654301

105 Shubhangi 55000 9527693431

106 Rohit 60000 9823382659

5 rows selected.

e)SQL> select e.empno,d.deptno,e.empname,e.salary from Emp e,Dept d where salary>60000 and e.Empno=d.Empno order by salary;

no rows selected.

f)SQL>select \* from dept order by deptname;

DEPTNO EMPNO DEPTNAME LOCATION JOBTYPE

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2 109 Production Nagpur Manager

2 103 Production Nagpur Manager

2 104 Production Nagpur Manager

2 110 Production Nagpur Manager

2 107 Production Nagpur Manager

2 108 Production Nagpur Manager

1 102 Sales Pune Worker

1 101 Sales Pune Worker

3 106 Testing Nashik Admin

3 105 Testing Nashik Admin

10 rows selected.

g)SQL> select e.empno,d.deptno,e.empname,e.salary from Emp e,Dept d where salary>45000 and e.Empno=d.Empno order by salary;

EMPNO DEPTNO EMPNAME SALARY

---------------------------------------------------------------

104 2 Zaheer 50000

105 3 Shubhangi 55000

106 3 Rohit 60000

3 rows selected.

h) SQL>select empname,salary from emp where empno IN (select empno from dept where deptname like 'Production%') AND salary>(select avg(salary) from emp);

EMPNAME SALARY

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Zaheer 50000

1 row selected.

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