

## **Experiment -1.2**

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Subject Name: DataBase Management System Subject Code: 21CSH214

## 1. Aim/Overview of the practical:

To explore "SELECT" clause using where, order by, between, like, group by, having etc.

## 2. Command Definition:

Select command is used to fetch the data in a set of records from a table, view or a group of tables, views by making use of SQL joins.

1.select \* from emp; => To see all records

eid	ename	dept	salary
101	Ankit	CSE	100000
102	Tabish	ECE	70000
103	Aman	IT	80000
104	Harsh	CSE	50000
105	Prabhat	ECE	90000
106	Himanshu	CSE	70000
107	Ashish	IT	60000
108	Rishu	CSE	70000
109	Niraj	IT	60000
110	Sameer	ECE	80000

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2.select ename, salary from emp;

=> To see selected columns

```
mysql> select ename, salary from emp;
              salary
  ename
  Ankit
              100000
  Tabish
               70000
               80000
  Aman
               50000
  Harsh
  Prabhat
               90000
  Himanshu
               70000
               60000
  Ashish
  Rishu
               70000
  Nirai
               60000
               80000
  Sameer
10 rows in set (0.00 sec)
mysql> _
```

3.select ename as "employee", salary from emp=> To see emp as employee and their salary.

```
mysql> select ename as "employee", salary from emp;
  employee |
              salary
  Ankit
Tabish
              100000
               70000
  Aman
               80000
  Harsh
               50000
  Prabhat
  Himanshu
  Ashish
  Rishu
               60000
  Niraj
               80000
  Sameer
10 rows in set (0.00 sec)
mysq1>
```

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4.select count(\*) from emp=> to see the number of employees

```
mysql> select count(*) from emp;
+-----+
| count(*) |
+----+
| 10 |
+----+
1 row in set (0.04 sec)
mysql>
```

5.select count(eid) from emp=> to see the number of eid

```
mysql> select count(eid) from emp;
+-----+
| count(eid) |
+-----+
| 10 |
+----+
1 row in set (0.00 sec)
mysql>
```

6.select avg (salary) from emp=> to see the average salary of employees



7.select sum(salary) from emp=> to see total salary of employee

```
mysql> select sum(salary) from emp;
+-----+
| sum(salary) |
+-----+
| 730000 |
+-----+
1 row in set (0.00 sec)
mysql> _
```

8.select max(salary) from emp=> to see what is maximum salary given to employee

9.select min(salary) from emp=> to see what is minimum salary given to employee



10.select eid,name from emp where dept='CSE'=> to see eid and name of employees in CSE

```
mysql> select eid,ename from emp where dept='CSE';
+----+
| eid | ename |
+----+
| 101 | Ankit |
| 104 | Harsh |
| 106 | Himanshu |
| 108 | Rishu |
+----+
4 rows in set (0.00 sec)
mysql> __
```

11.select eid,ename from emp where salary between 50000 and 80000=> to see details of employees who are getting salary between 50k and 80k

```
mysql> select eid, ename from emp where salary between 50000 and 80000;
  eid
         ename
   102
         Tabish
   103
         Aman
         Harsh
         Himanshu
          Ashish
   108
         Rishu
         Niraj
         Sameer
8 rows in set (0.00 sec)
mysql> _
```





12.select eid,ename,dept from emp where dept in ('CSE','IT')=> to see the details of emp who are in CSE and IT

```
mysql> select eid,ename,dept from emp where dept in ('CSE','IT');
  eid
         ename
                     dept
   101
         Ankit
                     CSE
   103
         Aman
                      IT
   104
         Harsh
                     CSE
   106
         Himanshu
                      CSE
   107
         Ashish
   108
         Rishu
                      CSE
   109
         Niraj
 rows in set (0.00 sec)
mysq1>
```

13.select eid,ename,dept from emp where dept not in ('CSE','IT')=> to see the details of emp who are not in CSE and IT

14.select ename from emp where ename like 'a%'=> to see the name of emp whose name starts with A

```
mysql> select ename from emp where ename like 'a%';
+-----+
| ename |
+-----+
| Ankit |
| Aman |
| Ashish |
+-----+
3 rows in set (0.00 sec)
mysql> _
```



15.select \* from emp order by salary=> it shows the salary in ascending order

```
mysql> select * from emp order by salary;
  eid
                      dept
                              salary
          ename
   104
          Harsh
                      CSE
                               50000
   107
          Ashish
                               60000
                      IT
   109
                               60000
          Niraj
                      IT
   102
          Tabish
                               70000
                      ECE
   106
          Himanshu
                      CSE
                               70000
   108
          Rishu
                      CSE
                               70000
                               80000
   103
          Aman
                      IT
                               80000
   110
          Sameer
                      ECE
   105
          Prabhat
                               90000
                      ECE
   101
          Ankit
                              100000
                      CSE
10 rows in set (0.00 sec)
mysql>
```

16.select \* from emp order by salary desc=> it shows the salary in decending order

```
mysql> select * from emp order by salary desc;
  eid
          ename
                      dept
                              salary
   101
          Ankit
                      CSE
                              100000
   105
          Prabhat
                      ECE
                               90000
   103
          Aman
                               80000
                      IT
   110
          Sameer
                      ECE
                               80000
          Tabish
                      ECE
   102
                               70000
   106
          Himanshu
                      CSE
                               70000
   108
          Rishu
                      CSE
                               70000
                               60000
   107
          Ashish
                      IT
   109
                               60000
          Niraj
                      IT
          Harsh
   104
                      CSE
                               50000
10 rows in set (0.00 sec)
mysq1>
```



17.select \* from emp order by dept,salary desc=> it shows the department in ascending order

```
mysql> select * from emp order by dept,salary desc;
  eid
                     dept
                             salary
          ename
   101
          Ankit
                      CSE
                             100000
   106
         Himanshu
                              70000
                     CSE
   108
         Rishu
                      CSE
                              70000
                              50000
   104
         Harsh
                     CSE
          Prabhat
                      ECE
   105
                              90000
   110
                              80000
          Sameer
                      ECE
   102
         Tabish
                      ECE
                              70000
   103
          Aman
                      IT
                              80000
         Ashish
                              60000
   107
                      IT
   109
        Niraj
                      IT
                              60000
10 rows in set (0.01 sec)
mysql> _
```

18.select count(eid), dept from emp group by dept=> it shows the count of department in ascending order



19.select count(eid), dept from emp group by dept order by count(eid) desc=> it shows the count of department in decending order

```
mysql> select dept, count(eid) from emp group by dept order by count(eid) desc;
+----+
| dept | count(eid) |
+----+
| CSE | 4 |
| ECE | 3 |
| IT | 3 |
+----+
3 rows in set (0.04 sec)
mysql>
```

20.select dept, count(eid) from emp group by dept having count(eid)>2=> it shows the count of department in which are greater than 2

21.select distinct dept from emp=> it shows the name of distinct departments

```
mysql> select distinct dept from emp;
+----+
| dept |
+----+
| CSE |
| ECE |
| IT |
+----+
3 rows in set (0.00 sec)
mysql>
```

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