**DAY 5 mysql command line work**

**mysql> show databases;**

+--------------------+

| Database |

+--------------------+

| information\_schema |

| mysql |

| test |

| zahra |

+--------------------+

4 rows in set (0.00 sec)

**mysql>** create database techment;

Query OK, 1 row affected (0.00 sec)

**mysql>** show databases;

+--------------------+

| Database |

+--------------------+

| information\_schema |

| mysql |

| techment |

| test |

| zahra |

+--------------------+

5 rows in set (0.00 sec)

**mysql>** use techment;

Database changed

**mysql>** show tables;

Empty set (0.00 sec)

**mysql>** create table employee(id int, name varchar(20), salary float, age int);

Query OK, 0 rows affected (0.11 sec)

**mysql>** desc employee;

+--------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------+-------------+------+-----+---------+-------+

| id | int(11) | YES | | NULL | |

| name | varchar(20) | YES | | NULL | |

| salary | float | YES | | NULL | |

| age | int(11) | YES | | NULL | |

+--------+-------------+------+-----+---------+-------+

4 rows in set (0.02 sec)

**mysql>** insert into employee values(1,'sachin',56000,20);

Query OK, 1 row affected (0.07 sec)

**mysql>** select \* from employee;

+------+--------+--------+------+

| id | name | salary | age |

+------+--------+--------+------+

| 1 | sachin | 56000 | 20 |

+------+--------+--------+------+

1 row in set (0.00 sec)

**mysql>** select id,name from employee;

+------+--------+

| id | name |

+------+--------+

| 1 | sachin |

+------+--------+

1 row in set (0.01 sec)

**mysql>** insert into employee(id,name,age)values(3,'mahesh',35);

Query OK, 1 row affected (0.05 sec)

**mysql>** select \* from employee;

+------+--------+--------+------+

| id | name | salary | age |

+------+--------+--------+------+

| 1 | sachin | 56000 | 20 |

| 3 | mahesh | NULL | 35 |

+------+--------+--------+------+

2 rows in set (0.00 sec)

**mysql>** insert into employee values(4,'sahin',5667000,22);

Query OK, 1 row affected (0.06 sec)

**mysql>** insert into employee values(2,'mummy',5667.0,56);

Query OK, 1 row affected (0.05 sec)

**mysql>** update employee set salary=30000 where id=3;

Query OK, 1 row affected (0.06 sec)

Rows matched: 1 Changed: 1 Warnings: 0

**mysql>** select \* from employee;

+------+--------+------------+------+

| id | name | salary | age |

+------+--------+------------+------+

| 1 | sachin | 56000 | 20 |

| 3 | mahesh | 30000 | 35 |

| 4 | sahin | 5.667e+006 | 22 |

| 2 | mummy | 5667 | 56 |

+------+--------+------------+------+

4 rows in set (0.00 sec)

**mysql>** update employee set salary=salary+10000 where salary<50000;

Query OK, 2 rows affected (0.04 sec)

Rows matched: 2 Changed: 2 Warnings: 0

**mysql>** select \* from employee;

+------+--------+------------+------+

| id | name | salary | age |

+------+--------+------------+------+

| 1 | sachin | 56000 | 20 |

| 3 | mahesh | 40000 | 35 |

| 4 | sahin | 5.667e+006 | 22 |

| 2 | mummy | 15667 | 56 |

+------+--------+------------+------+

4 rows in set (0.00 sec)

**mysql>** select name,salary,salary+10000 from employee;

+--------+------------+--------------+

| name | salary | salary+10000 |

+--------+------------+--------------+

| sachin | 56000 | 66000 |

| mahesh | 40000 | 50000 |

| sahin | 5.667e+006 | 5677000 |

| mummy | 15667 | 25667 |

+--------+------------+--------------+

4 rows in set (0.00 sec)

**mysql>** select name,salary,salary+10000 as bonus from employee;

+--------+------------+---------+

| name | salary | bonus |

+--------+------------+---------+

| sachin | 56000 | 66000 |

| mahesh | 40000 | 50000 |

| sahin | 5.667e+006 | 5677000 |

| mummy | 15667 | 25667 |

+--------+------------+---------+

4 rows in set (0.00 sec)

**mysql>** update employee set salary=salary+10000 where salary<50000;

Query OK, 2 rows affected (0.05 sec)

Rows matched: 2 Changed: 2 Warnings: 0

**mysql>** select name from employee where salary+10000<50000;

+-------+

| name |

| mummy |

+-------+

1 row in set (0.01 sec)

**mysql>** select name, salary,salary/30 as perday from employee;

+--------+------------+------------------+

| name | salary | perday |

+--------+------------+------------------+

| sachin | 56000 | 1866.66666666667 |

| mahesh | 50000 | 1666.66666666667 |

| sahin | 5.667e+006 | 188900 |

| mummy | 25667 | 855.566666666667 |

+--------+------------+------------------+

4 rows in set (0.00 sec)

**mysql>** select ucase(name)from employee;

+-------------+

| ucase(name) |

+-------------+

| SACHIN |

| MAHESH |

| SAHIN |

| MUMMY |

+-------------+

4 rows in set (0.00 sec)

**mysql>** select ucase(name),sum(salary)from employee;

+-------------+-------------+

| ucase(name) | sum(salary) |

+-------------+-------------+

| SACHIN | 5798667 |

+-------------+-------------+

1 row in set (0.00 sec)

**mysql>** select \* from employee where salary between 25000 and 50000;

+------+--------+--------+------+

| id | name | salary | age |

+------+--------+--------+------+

| 3 | mahesh | 50000 | 35 |

| 2 | mummy | 25667 | 56 |

+------+--------+--------+------+

2 rows in set (0.00 sec)

**mysql>** select \* from employee where name like 'm%';

+------+--------+--------+------+

| id | name | salary | age |

+------+--------+--------+------+

| 3 | mahesh | 50000 | 35 |

| 2 | mummy | 25667 | 56 |

+------+--------+--------+------+

2 rows in set (0.00 sec)

**mysql>** select \* from employee where name like '%h';

+------+--------+--------+------+

| id | name | salary | age |

+------+--------+--------+------+

| 3 | mahesh | 50000 | 35 |

+------+--------+--------+------+

1 row in set (0.00 sec)

**mysql>** select \* from employee where name like '%m%';

+------+--------+--------+------+

| id | name | salary | age |

+------+--------+--------+------+

| 3 | mahesh | 50000 | 35 |

| 2 | mummy | 25667 | 56 |

+------+--------+--------+------+

2 rows in set (0.00 sec)

**mysql>** select \* from employee where name like '\_\_h%';

+------+--------+------------+------+

| id | name | salary | age |

+------+--------+------------+------+

| 3 | mahesh | 50000 | 35 |

| 4 | sahin | 5.667e+006 | 22 |

+------+--------+------------+------+

2 rows in set (0.00 sec)

**mysql>** select \* from employee where name like '\_\_\_\_';

Empty set (0.00 sec)

**mysql>** select \* from employee where salary>25000 and age>10;

+------+--------+------------+------+

| id | name | salary | age |

+------+--------+------------+------+

| 1 | sachin | 56000 | 20 |

| 3 | mahesh | 50000 | 35 |

| 4 | sahin | 5.667e+006 | 22 |

| 2 | mummy | 25667 | 56 |

+------+--------+------------+------+

4 rows in set (0.00 sec)

**mysql>** select \* from employee where salary>25000 and age>10;

+------+--------+------------+------+

| id | name | salary | age |

+------+--------+------------+------+

| 1 | sachin | 56000 | 20 |

| 3 | mahesh | 50000 | 35 |

| 4 | sahin | 5.667e+006 | 22 |

| 2 | mummy | 25667 | 56 |

+------+--------+------------+------+

4 rows in set (0.00 sec)

**mysql>** select \* from employee order by age;

+------+--------+------------+------+

| id | name | salary | age |

+------+--------+------------+------+

| 1 | sachin | 56000 | 20 |

| 4 | sahin | 5.667e+006 | 22 |

| 3 | mahesh | 50000 | 35 |

| 2 | mummy | 25667 | 56 |

+------+--------+------------+------+

4 rows in set (0.01 sec)

**mysql>** select \* from employee order by age desc;

+------+--------+------------+------+

| id | name | salary | age |

+------+--------+------------+------+

| 2 | mummy | 25667 | 56 |

| 3 | mahesh | 50000 | 35 |

| 4 | sahin | 5.667e+006 | 22 |

| 1 | sachin | 56000 | 20 |

+------+--------+------------+------+

4 rows in set (0.00 sec)

**mysql>** select \* from employee group by age ;

+------+--------+------------+------+

| id | name | salary | age |

+------+--------+------------+------+

| 1 | sachin | 56000 | 20 |

| 4 | sahin | 5.667e+006 | 22 |

| 3 | mahesh | 50000 | 35 |

| 2 | mummy | 25667 | 56 |

+------+--------+------------+------+

4 rows in set (0.00 sec)

**mysql>** select \* from employee group by age having age=20;

+------+--------+--------+------+

| id | name | salary | age |

+------+--------+--------+------+

| 1 | sachin | 56000 | 20 |

+------+--------+--------+------+

1 row in set (0.00 sec)

**mysql>** select \* from employee where age>20 order by age;

+------+--------+------------+------+

| id | name | salary | age |

+------+--------+------------+------+

| 4 | sahin | 5.667e+006 | 22 |

| 3 | mahesh | 50000 | 35 |

| 2 | mummy | 25667 | 56 |

+------+--------+------------+------+

3 rows in set (0.00 sec)

**mysql>** select sum(salary )from employee ;

+--------------+

| sum(salary ) |

+--------------+

| 5798667 |

+--------------+

1 row in set (0.00 sec)

**mysql>** alter table employee add column(dept varchar(20));

Query OK, 4 rows affected (0.29 sec)

Records: 4 Duplicates: 0 Warnings: 0

**mysql>** update employee set dept="hr" where id=1;

Query OK, 1 row affected (0.04 sec)

Rows matched: 1 Changed: 1 Warnings: 0

**mysql>** update employee set dept="hr" where id=3;

Query OK, 1 row affected (0.05 sec)

Rows matched: 1 Changed: 1 Warnings: 0

**mysql>** update employee set dept="manager" where id=2;

Query OK, 1 row affected (0.05 sec)

Rows matched: 1 Changed: 1 Warnings: 0

**mysql>** update employee set dept="manager" where id=4;

Query OK, 1 row affected (0.04 sec)

Rows matched: 1 Changed: 1 Warnings: 0

**mysql>** select \* from employee;

+------+--------+------------+------+---------+

| id | name | salary | age | dept |

+------+--------+------------+------+---------+

| 1 | sachin | 56000 | 20 | hr |

| 3 | mahesh | 50000 | 35 | hr |

| 4 | sahin | 5.667e+006 | 22 | manager |

| 2 | mummy | 25667 | 56 | manager |

+------+--------+------------+------+---------+

4 rows in set (0.00 sec)

**mysql>** select name from employee group by name;

+--------+

| name |

+--------+

| mahesh |

| mummy |

| sachin |

| sahin |

+--------+

4 rows in set (0.00 sec)

**mysql>** select \* from employee group by dept;

+------+--------+------------+------+---------+

| id | name | salary | age | dept |

+------+--------+------------+------+---------+

| 1 | sachin | 56000 | 20 | hr |

| 4 | sahin | 5.667e+006 | 22 | manager |

+------+--------+------------+------+---------+

2 rows in set (0.00 sec)

**mysql>** select dept,count(id) from employee group by dept;

+---------+-----------+

| dept | count(id) |

+---------+-----------+

| hr | 2 |

| manager | 2 |

+---------+-----------+

2 rows in set (0.00 sec)

**mysql>** select dept,min(salary) from employee group by dept;

+---------+-------------+

| dept | min(salary) |

+---------+-------------+

| hr | 50000 |

| manager | 25667 |

+---------+-------------+

2 rows in set (0.00 sec)

**mysql>** select name,min(salary) from employee group by dept;

+--------+-------------+

| name | min(salary) |

+--------+-------------+

| sachin | 50000 |

| sahin | 25667 |

+--------+-------------+

2 rows in set (0.00 sec)

**mysql>** select dept,sum(salary) from employee group by dept;

+---------+-------------+

| dept | sum(salary) |

+---------+-------------+

| hr | 106000 |

| manager | 5692667 |

+---------+-------------+

2 rows in set (0.00 sec)

**mysql>** select dept,sum(salary) from employee group by dept having sum(salary)<50000;

Empty set (0.00 sec)

**mysql>** select dept,sum(salary) from employee group by dept having sum(salary)<500000;

+------+-------------+

| dept | sum(salary) |

+------+-------------+

| hr | 106000 |

+------+-------------+

1 row in set (0.00 sec)

**mysql>** select dept,sum(salary) from employee group by dept desc having sum(salary)<500000;

+------+-------------+

| dept | sum(salary) |

+------+-------------+

| hr | 106000 |

+------+-------------+

1 row in set (0.00 sec)

**mysql>** select dept,sum(salary) from employee group by dept desc having sum(salary)<500000 order by sum(salary) desc;

+------+-------------+

| dept | sum(salary) |

+------+-------------+

| hr | 106000 |

+------+-------------+

1 row in set (0.00 sec)

**mysql>** select dept,sum(salary) from employee group by dept desc having sum(salary)<50000 order by sum(salary) desc;

Empty set (0.00 sec)

**mysql>** select dept,sum(salary) from employee group by dept desc having sum(salary)>50000 order by sum(salary) desc;

+---------+-------------+

| dept | sum(salary) |

+---------+-------------+

| manager | 5692667 |

| hr | 106000 |

+---------+-------------+

2 rows in set (0.00 sec)

**mysql>** select name from employee where name like "\_\_\_\_s";

Empty set (0.00 sec)

**mysql>** select \* from employee;

+------+--------+------------+------+---------+

| id | name | salary | age | dept |

+------+--------+------------+------+---------+

| 1 | sachin | 56000 | 20 | hr |

| 3 | mahesh | 50000 | 35 | hr |

| 4 | sahin | 5.667e+006 | 22 | manager |

| 2 | mummy | 25667 | 56 | manager |

+------+--------+------------+------+---------+

4 rows in set (0.00 sec)

**mysql>** select dept,count(name) from employee group by dept;

+---------+-------------+

| dept | count(name) |

+---------+-------------+

| hr | 2 |

| manager | 2 |

+---------+-------------+

2 rows in set (0.00 sec)

**mysql>** select dept,count(name) as num\_of\_employees from employee group by dept;

+---------+------------------+

| dept | num\_of\_employees |

+---------+------------------+

| hr | 2 |

| manager | 2 |

+---------+------------------+

2 rows in set (0.00 sec)

**mysql>** select dept,min(salary) as minimum\_salary from employee group by dept;

+---------+----------------+

| dept | minimum\_salary |

+---------+----------------+

| hr | 50000 |

| manager | 25667 |

+---------+----------------+

2 rows in set (0.00 sec)

**mysql>** select dept from employee group by dept having max(salary)>60000;

+---------+

| dept |

+---------+

| manager |

+---------+

1 row in set (0.00 sec)

**mysql>** select max(salary) from employee ;

+-------------+

| max(salary) |

+-------------+

| 5667000 |

+-------------+

1 row in set (0.00 sec)

**mysql>** select \* from employee;

+------+--------+------------+------+---------+

| id | name | salary | age | dept |

+------+--------+------------+------+---------+

| 1 | sachin | 56000 | 20 | hr |

| 3 | mahesh | 50000 | 35 | hr |

| 4 | sahin | 5.667e+006 | 22 | manager |

| 2 | mummy | 25667 | 56 | manager |

+------+--------+------------+------+---------+

4 rows in set (0.00 sec)

**mysql>** select salary from employee where salary < (select max(salary) from employee) ;

+--------+

| salary |

+--------+

| 56000 |

| 50000 |

| 25667 |

+--------+

3 rows in set (0.00 sec)

**mysql>** select max(salary) from employee where salary not in (select max(salary) from employee);

+-------------+

| max(salary) |

+-------------+

| 56000 |

+-------------+

1 row in set (0.00 sec)

**mysql>** select max(salary) from employee where salary < (select max(salary) from employee);

+-------------+

| max(salary) |

+-------------+

| 56000 |

+-------------+

1 row in set (0.00 sec)

**mysql>** select name from employee where name <> "sachin";

+--------+

| name |

+--------+

| mahesh |

| sahin |

| mummy |

+--------+

3 rows in set (0.01 sec)

**mysql>** select name from employee where name not in(select name from employee where dept="hr");

+-------+

| name |

+-------+

| sahin |

| mummy |

+-------+

2 rows in set (0.00 sec)

**mysql>** select name from employee where name not in(select name from employee where dept="tester");

+--------+

| name |

+--------+

| sachin |

| mahesh |

| sahin |

| mummy |

+--------+

4 rows in set (0.00 sec)

**mysql>** alter table employee add (doj date);

Query OK, 4 rows affected (0.29 sec)

Records: 4 Duplicates: 0 Warnings: 0

**mysql>** select \* from employee;

+------+--------+------------+------+---------+------+

| id | name | salary | age | dept | doj |

+------+--------+------------+------+---------+------+

| 1 | sachin | 56000 | 20 | hr | NULL |

| 3 | mahesh | 50000 | 35 | hr | NULL |

| 4 | sahin | 5.667e+006 | 22 | manager | NULL |

| 2 | mummy | 25667 | 56 | manager | NULL |

+------+--------+------------+------+---------+------+

4 rows in set (0.00 sec)

**mysql>** update employee set doj="2018-12-23" where id =1;

Query OK, 1 row affected (0.05 sec)

Rows matched: 1 Changed: 1 Warnings: 0

**mysql>** update employee set doj="2018-12-16" where id =2;

Query OK, 1 row affected (0.06 sec)

Rows matched: 1 Changed: 1 Warnings: 0

**mysql>** update employee set doj="2019-11-16" where id =3;

Query OK, 1 row affected (0.06 sec)

Rows matched: 1 Changed: 1 Warnings: 0

**mysql>** update employee set doj="2020-11-11" where id =4;

Query OK, 1 row affected (0.03 sec)

Rows matched: 1 Changed: 1 Warnings: 0

**mysql>** select \* from employee;

+------+--------+------------+------+---------+------------+

| id | name | salary | age | dept | doj |

+------+--------+------------+------+---------+------------+

| 1 | sachin | 56000 | 20 | hr | 2018-12-23 |

| 3 | mahesh | 50000 | 35 | hr | 2019-11-16 |

| 4 | sahin | 5.667e+006 | 22 | manager | 2020-11-11 |

| 2 | mummy | 25667 | 56 | manager | 2018-12-16 |

+------+--------+------------+------+---------+------------+

4 rows in set (0.01 sec)

**mysql>** select curdate();

+------------+

| curdate() |

+------------+

| 2020-05-30 |

+------------+

1 row in set (0.03 sec)

**mysql>** select name ,doj , datediff(curdate(),doj) from employee ;

+--------+------------+-------------------------+

| name | doj | datediff(curdate(),doj) |

+--------+------------+-------------------------+

| sachin | 2018-12-23 | 524 |

| mahesh | 2019-11-16 | 196 |

| sahin | 2020-11-11 | -165 |

| mummy | 2018-12-16 | 531 |

+--------+------------+-------------------------+

4 rows in set (0.00 sec)

**mysql>** select name,doj,datediff(curdate(),doj)/30 from employee ;

+--------+------------+----------------------------+

| name | doj | datediff(curdate(),doj)/30 |

+--------+------------+----------------------------+

| sachin | 2018-12-23 | 17.4667 |

| mahesh | 2019-11-16 | 6.5333 |

| sahin | 2020-11-11 | -5.5000 |

| mummy | 2018-12-16 | 17.7000 |

+--------+------------+----------------------------+

4 rows in set (0.00 sec)

**mysql>** select day(curdate());

+----------------+

| day(curdate()) |

+----------------+

| 30 |

+----------------+

1 row in set (0.00 sec)

**mysql>** select name,length(name) from employee;

+--------+--------------+

| name | length(name) |

+--------+--------------+

| sachin | 6 |

| mahesh | 6 |

| sahin | 5 |

| mummy | 5 |

+--------+--------------+

4 rows in set (0.03 sec)

**mysql>** select name,length(name),concat(name,age) from employee;

+--------+--------------+------------------+

| name | length(name) | concat(name,age) |

+--------+--------------+------------------+

| sachin | 6 | sachin20 |

| mahesh | 6 | mahesh35 |

| sahin | 5 | sahin22 |

| mummy | 5 | mummy56 |

+--------+--------------+------------------+

4 rows in set (0.00 sec)

**mysql>** create table bangoffice(id int, name varchar(20),Designation varchar(20));

Query OK, 0 rows affected (0.09 sec)

**mysql>** create table chennai\_office(id int, name varchar(20),Designation varchar(20));

Query OK, 0 rows affected (0.10 sec)

**mysql>** insert into bangoffice values(1,"zahra","hr");

Query OK, 1 row affected (0.06 sec)

**mysql>** insert into bangoffice values(2,"sachin","dev");

Query OK, 1 row affected (0.06 sec)

**mysql>** insert into bangoffice values(3,"mansi","dev");

Query OK, 1 row affected (0.06 sec)

**mysql>** insert into bangoffice values(4,"ajit","dev");

Query OK, 1 row affected (0.06 sec)

**mysql>** insert into chennai\_office values(1,"ajitih","tester");

Query OK, 1 row affected (0.05 sec)

**mysql>** insert into bangoffice values(5,"aditi","tester");

Query OK, 1 row affected (0.04 sec)

**mysql>** insert into chennai\_office values(2,"ddd","dev");

Query OK, 1 row affected (0.05 sec)

**mysql>** insert into chennai\_office values(3,"hello","tester");

Query OK, 1 row affected (0.06 sec)

**mysql>** select \* from bangoffice;

+------+--------+-------------+

| id | name | Designation |

+------+--------+-------------+

| 1 | zahra | hr |

| 2 | sachin | dev |

| 3 | mansi | dev |

| 4 | ajit | dev |

| 5 | aditi | tester |

+------+--------+-------------+

5 rows in set (0.00 sec)

**mysql>** select \* from chennai\_office;

+------+--------+-------------+

| id | name | Designation |

+------+--------+-------------+

| 1 | ajitih | tester |

| 2 | ddd | dev |

| 3 | hello | tester |

+------+--------+-------------+

3 rows in set (0.00 sec)

**mysql>** insert into chennai\_office values(4,"ajit","tester");

Query OK, 1 row affected (0.07 sec)

**mysql>** select \* from chennai\_office;

+------+--------+-------------+

| id | name | Designation |

+------+--------+-------------+

| 1 | ajitih | tester |

| 2 | ddd | dev |

| 3 | hello | tester |

| 4 | ajit | tester |

+------+--------+-------------+

4 rows in set (0.00 sec)

**mysql>** select \* from bangoffice union select \* from chennai\_office;

+------+--------+-------------+

| id | name | Designation |

+------+--------+-------------+

| 1 | zahra | hr |

| 2 | sachin | dev |

| 3 | mansi | dev |

| 4 | ajit | dev |

| 5 | aditi | tester |

| 1 | ajitih | tester |

| 2 | ddd | dev |

| 3 | hello | tester |

| 4 | ajit | tester |

+------+--------+-------------+

9 rows in set (0.03 sec)

**mysql>** insert into chennai\_office values(5,"aditi","tester");

Query OK, 1 row affected (0.05 sec)

**mysql>** select \* from bangoffice union select \* from chennai\_office;

+------+--------+-------------+

| id | name | Designation |

+------+--------+-------------+

| 1 | zahra | hr |

| 2 | sachin | dev |

| 3 | mansi | dev |

| 4 | ajit | dev |

| 5 | aditi | tester |

| 1 | ajitih | tester |

| 2 | ddd | dev |

| 3 | hello | tester |

| 4 | ajit | tester |

+------+--------+-------------+

9 rows in set (0.00 sec)

**mysql>** select \* from bangoffice union all select \* from chennai\_office;

+------+--------+-------------+

| id | name | Designation |

+------+--------+-------------+

| 1 | zahra | hr |

| 2 | sachin | dev |

| 3 | mansi | dev |

| 4 | ajit | dev |

| 5 | aditi | tester |

| 1 | ajitih | tester |

| 2 | ddd | dev |

| 3 | hello | tester |

| 4 | ajit | tester |

| 5 | aditi | tester |

+------+--------+-------------+

10 rows in set (0.00 sec)