**Day 6 mysql Command Line work**

**mysql>**  show databases;

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

| Database |

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

| information\_schema |

| mysql |

| techment |

| test |

| zahra |

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

5 rows in set (0.06 sec)

**mysql>**  use techment;

Database changed

**mysql>**  desc emplyee;

ERROR 1146 (42S02): Table 'techment.emplyee' doesn't exist

**mysql>**  show tables;

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

| Tables\_in\_techment |

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

| bangoffice |

| chennai\_office |

| employee |

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

3 rows in set (0.00 sec)

**mysql>**  use employee;

ERROR 1049 (42000): Unknown database 'employee'

**mysql>**  create table student(id int primary key, name varchar(20),dept varchar(30));

Query OK, 0 rows affected (0.12 sec)

**mysql>**  create table address(id int, stname varchar(20),stuid int ,foreign key(stuid) references student(id));

Query OK, 0 rows affected (0.41 sec)

**mysql>**  insert into student values(1,'sachin','cs');

Query OK, 1 row affected (0.06 sec)

**mysql>**  insert into student values(2,'ramesh','mech');

Query OK, 1 row affected (0.06 sec)

**mysql>**  insert into student values(3,'suresh','mech');

Query OK, 1 row affected (0.05 sec)

**mysql>**  insert into student values(4,'rahul','mech');

Query OK, 1 row affected (0.05 sec)

**mysql>**  insert into student values(5,'nita','mech');

Query OK, 1 row affected (0.06 sec)

**mysql>**  insert into address values(100,'btm',1);

Query OK, 1 row affected (0.06 sec)

**mysql>**  insert into address values(101,'hsr',2);

Query OK, 1 row affected (0.06 sec)

**mysql>**  insert into address values(101,'old st',2);

Query OK, 1 row affected (0.06 sec)

**mysql>**  insert into address values(102,'bescon',2);

Query OK, 1 row affected (0.04 sec)

**mysql>**  insert into address values(103,'bescon',4);

Query OK, 1 row affected (0.05 sec)

**mysql>**  select \* from student;

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

| id | name | dept |

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

| 1 | sachin | cs |

| 2 | ramesh | mech |

| 3 | suresh | mech |

| 4 | rahul | mech |

| 5 | nita | mech |

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

5 rows in set (0.00 sec)

**mysql>**  select \* from student,address;

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

| id | name | dept | id | stname | stuid |

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

| 1 | sachin | cs | 100 | btm | 1 |

| 2 | ramesh | mech | 100 | btm | 1 |

| 3 | suresh | mech | 100 | btm | 1 |

| 4 | rahul | mech | 100 | btm | 1 |

| 5 | nita | mech | 100 | btm | 1 |

| 1 | sachin | cs | 101 | hsr | 2 |

| 2 | ramesh | mech | 101 | hsr | 2 |

| 3 | suresh | mech | 101 | hsr | 2 |

| 4 | rahul | mech | 101 | hsr | 2 |

| 5 | nita | mech | 101 | hsr | 2 |

| 1 | sachin | cs | 101 | old st | 2 |

| 2 | ramesh | mech | 101 | old st | 2 |

| 3 | suresh | mech | 101 | old st | 2 |

| 4 | rahul | mech | 101 | old st | 2 |

| 5 | nita | mech | 101 | old st | 2 |

| 1 | sachin | cs | 102 | bescon | 2 |

| 2 | ramesh | mech | 102 | bescon | 2 |

| 3 | suresh | mech | 102 | bescon | 2 |

| 4 | rahul | mech | 102 | bescon | 2 |

| 5 | nita | mech | 102 | bescon | 2 |

| 1 | sachin | cs | 103 | bescon | 4 |

| 2 | ramesh | mech | 103 | bescon | 4 |

| 3 | suresh | mech | 103 | bescon | 4 |

| 4 | rahul | mech | 103 | bescon | 4 |

| 5 | nita | mech | 103 | bescon | 4 |

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

25 rows in set (0.00 sec)

**mysql>**  select \* from student cross join address;

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

| id | name | dept | id | stname | stuid |

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

| 1 | sachin | cs | 100 | btm | 1 |

| 2 | ramesh | mech | 100 | btm | 1 |

| 3 | suresh | mech | 100 | btm | 1 |

| 4 | rahul | mech | 100 | btm | 1 |

| 5 | nita | mech | 100 | btm | 1 |

| 1 | sachin | cs | 101 | hsr | 2 |

| 2 | ramesh | mech | 101 | hsr | 2 |

| 3 | suresh | mech | 101 | hsr | 2 |

| 4 | rahul | mech | 101 | hsr | 2 |

| 5 | nita | mech | 101 | hsr | 2 |

| 1 | sachin | cs | 101 | old st | 2 |

| 2 | ramesh | mech | 101 | old st | 2 |

| 3 | suresh | mech | 101 | old st | 2 |

| 4 | rahul | mech | 101 | old st | 2 |

| 5 | nita | mech | 101 | old st | 2 |

| 1 | sachin | cs | 102 | bescon | 2 |

| 2 | ramesh | mech | 102 | bescon | 2 |

| 3 | suresh | mech | 102 | bescon | 2 |

| 4 | rahul | mech | 102 | bescon | 2 |

| 5 | nita | mech | 102 | bescon | 2 |

| 1 | sachin | cs | 103 | bescon | 4 |

| 2 | ramesh | mech | 103 | bescon | 4 |

| 3 | suresh | mech | 103 | bescon | 4 |

| 4 | rahul | mech | 103 | bescon | 4 |

| 5 | nita | mech | 103 | bescon | 4 |

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

25 rows in set (0.00 sec)

**mysql>**  select \* from student inner join address on student.id=address.stuid;

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

| id | name | dept | id | stname | stuid |

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

| 1 | sachin | cs | 100 | btm | 1 |

| 2 | ramesh | mech | 101 | hsr | 2 |

| 2 | ramesh | mech | 101 | old st | 2 |

| 2 | ramesh | mech | 102 | bescon | 2 |

| 4 | rahul | mech | 103 | bescon | 4 |

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

5 rows in set (0.03 sec)

**mysql>**  select \* from student inner join address where student.id=address.stuid;

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

| id | name | dept | id | stname | stuid |

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

| 1 | sachin | cs | 100 | btm | 1 |

| 2 | ramesh | mech | 101 | hsr | 2 |

| 2 | ramesh | mech | 101 | old st | 2 |

| 2 | ramesh | mech | 102 | bescon | 2 |

| 4 | rahul | mech | 103 | bescon | 4 |

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

5 rows in set (0.00 sec)

**mysql>**  select \* from student natural join address;

Empty set (0.00 sec)

**mysql>**  select \* from student natural join address where student.id=address.stuid;

Empty set (0.00 sec)

**mysql>**  select \* from student;

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

| id | name | dept |

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

| 1 | sachin | cs |

| 2 | ramesh | mech |

| 3 | suresh | mech |

| 4 | rahul | mech |

| 5 | nita | mech |

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

5 rows in set (0.00 sec)

**mysql>**  select \* from address;

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

| id | stname | stuid |

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

| 100 | btm | 1 |

| 101 | hsr | 2 |

| 101 | old st | 2 |

| 102 | bescon | 2 |

| 103 | bescon | 4 |

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

5 rows in set (0.00 sec)

**mysql>**  insert into address values(4,'new st',3);

Query OK, 1 row affected (0.04 sec)

**mysql>**  select \* from address ;

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

| id | stname | stuid |

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

| 100 | btm | 1 |

| 101 | hsr | 2 |

| 101 | old st | 2 |

| 102 | bescon | 2 |

| 103 | bescon | 4 |

| 4 | new st | 3 |

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

6 rows in set (0.00 sec)

**mysql>**  select \* from address natural join student;

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

| id | stname | stuid | name | dept |

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

| 4 | new st | 3 | rahul | mech |

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

1 row in set (0.00 sec)

**mysql>**  alter table address change stname name varchar(20);

Query OK, 6 rows affected (0.26 sec)

Records: 6 Duplicates: 0 Warnings: 0

**mysql>**  select \* from address

-> ;

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

| id | name | stuid |

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

| 100 | btm | 1 |

| 101 | hsr | 2 |

| 101 | old st | 2 |

| 102 | bescon | 2 |

| 103 | bescon | 4 |

| 4 | new st | 3 |

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

6 rows in set (0.00 sec)

**mysql>**  select \* from student;

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

| id | name | dept |

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

| 1 | sachin | cs |

| 2 | ramesh | mech |

| 3 | suresh | mech |

| 4 | rahul | mech |

| 5 | nita | mech |

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

5 rows in set (0.00 sec)

**mysql>**  select \* from address natural join student;

Empty set (0.00 sec)

**mysql>**  insert into address values(5,'rahul',3);

Query OK, 1 row affected (0.06 sec)

**mysql>**  select \* from address natural join student;

Empty set (0.00 sec)

**mysql>**  insert into address values(4,'rahul',3);

Query OK, 1 row affected (0.05 sec)

**mysql>**  select \* from address natural join student;

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

| id | name | stuid | dept |

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

| 4 | rahul | 3 | mech |

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

1 row in set (0.00 sec)

**mysql>**  select \* from student left outer join address on student.id = address.stuid ;

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

| id | name | dept | id | name | stuid |

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

| 1 | sachin | cs | 100 | btm | 1 |

| 2 | ramesh | mech | 101 | hsr | 2 |

| 2 | ramesh | mech | 101 | old st | 2 |

| 2 | ramesh | mech | 102 | bescon | 2 |

| 3 | suresh | mech | 4 | new st | 3 |

| 3 | suresh | mech | 5 | rahul | 3 |

| 3 | suresh | mech | 4 | rahul | 3 |

| 4 | rahul | mech | 103 | bescon | 4 |

| 5 | nita | mech | NULL | NULL | NULL |

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

9 rows in set (0.00 sec)

**mysql>**  select \* from student;

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

| id | name | dept |

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

| 1 | sachin | cs |

| 2 | ramesh | mech |

| 3 | suresh | mech |

| 4 | rahul | mech |

| 5 | nita | mech |

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

5 rows in set (0.00 sec)

**mysql>**  select \* from address;

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

| id | name | stuid |

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

| 100 | btm | 1 |

| 101 | hsr | 2 |

| 101 | old st | 2 |

| 102 | bescon | 2 |

| 103 | bescon | 4 |

| 4 | new st | 3 |

| 5 | rahul | 3 |

| 4 | rahul | 3 |

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

8 rows in set (0.00 sec)

**mysql>**  delete from address where id<10;

Query OK, 3 rows affected (0.09 sec)

**mysql>**  select \* from address;

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

| id | name | stuid |

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

| 100 | btm | 1 |

| 101 | hsr | 2 |

| 101 | old st | 2 |

| 102 | bescon | 2 |

| 103 | bescon | 4 |

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

5 rows in set (0.00 sec)

**mysql>**  select \* from student left outer join address on student.id = address.stuid ;

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

| id | name | dept | id | name | stuid |

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

| 1 | sachin | cs | 100 | btm | 1 |

| 2 | ramesh | mech | 101 | hsr | 2 |

| 2 | ramesh | mech | 101 | old st | 2 |

| 2 | ramesh | mech | 102 | bescon | 2 |

| 3 | suresh | mech | NULL | NULL | NULL |

| 4 | rahul | mech | 103 | bescon | 4 |

| 5 | nita | mech | NULL | NULL | NULL |

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

7 rows in set (0.00 sec)

**mysql>**  select \* from student right outer join address on student.id = address.stuid ;

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

| id | name | dept | id | name | stuid |

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

| 1 | sachin | cs | 100 | btm | 1 |

| 2 | ramesh | mech | 101 | hsr | 2 |

| 2 | ramesh | mech | 101 | old st | 2 |

| 2 | ramesh | mech | 102 | bescon | 2 |

| 4 | rahul | mech | 103 | bescon | 4 |

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

5 rows in set (0.00 sec)

**mysql>**  select \* from student;

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

| id | name | dept |

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

| 1 | sachin | cs |

| 2 | ramesh | mech |

| 3 | suresh | mech |

| 4 | rahul | mech |

| 5 | nita | mech |

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

5 rows in set (0.00 sec)

**mysql>**  insert into address values(110,'newyork',5);

Query OK, 1 row affected (0.05 sec)

**mysql>**  select \* from student right outer join address on student.id = address.stuid ;

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

| id | name | dept | id | name | stuid |

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

| 1 | sachin | cs | 100 | btm | 1 |

| 2 | ramesh | mech | 101 | hsr | 2 |

| 2 | ramesh | mech | 101 | old st | 2 |

| 2 | ramesh | mech | 102 | bescon | 2 |

| 4 | rahul | mech | 103 | bescon | 4 |

| 5 | nita | mech | 110 | newyork | 5 |

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

6 rows in set (0.00 sec)

**mysql>**  select \* from student

-> union all

-> select \* from student

-> right outer join

-> address

-> on student.id=address.stuid;

ERROR 1222 (21000): The used SELECT statements have a different number of columns

**mysql>**  create table emp1(id int, name varchar(20),dept varchar(30));

Query OK, 0 rows affected (0.11 sec)

**mysql>**  create table emp2(id int, name varchar(20),dept varchar(30));

Query OK, 0 rows affected (0.39 sec)

**mysql>**  insert into emp1 values(1,'safan','hr');

Query OK, 1 row affected (0.05 sec)

**mysql>**  insert into emp1 values(2,'ravi','dev');

Query OK, 1 row affected (0.05 sec)

**mysql>**  insert into emp1 values(3,'santosh','tester');

Query OK, 1 row affected (0.05 sec)

**mysql>**  select \* from emp1;

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

| id | name | dept |

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

| 1 | safan | hr |

| 2 | ravi | dev |

| 3 | santosh | tester |

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

3 rows in set (0.00 sec)

**mysql>**  insert into emp2 values(100,'sachin','dev');

Query OK, 1 row affected (0.03 sec)

**mysql>**  insert into emp2 values(2,'kumar','dev');

Query OK, 1 row affected (0.05 sec)

**mysql>**  insert into emp2 values(100,'sam','hr');

Query OK, 1 row affected (0.06 sec)

**Day 6 mysql command line work**

**mysql>**  select \* from emp1;

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

| id | name | dept |

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

| 1 | safan | hr |

| 2 | ravi | dev |

| 3 | santosh | tester |

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

3 rows in set (0.00 sec)

**mysql>**  select \* from emp2;

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

| id | name | dept |

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

| 100 | sachin | dev |

| 2 | kumar | dev |

| 100 | sam | hr |

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

3 rows in set (0.00 sec)

**mysql>**  select \* from emp1 inner join emp2 on emp1.id= emp2.id;

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

| id | name | dept | id | name | dept |

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

| 2 | ravi | dev | 2 | kumar | dev |

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

1 row in set (0.00 sec)

**mysql>**  select \* from emp1 left outer join emp2 on emp1.id= emp2.id;

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

| id | name | dept | id | name | dept |

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

| 1 | safan | hr | NULL | NULL | NULL |

| 2 | ravi | dev | 2 | kumar | dev |

| 3 | santosh | tester | NULL | NULL | NULL |

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

3 rows in set (0.00 sec)

**mysql>**  select \* from emp1 right outer join emp2 on emp1.id= emp2.id;

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

| id | name | dept | id | name | dept |

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

| NULL | NULL | NULL | 100 | sachin | dev |

| 2 | ravi | dev | 2 | kumar | dev |

| NULL | NULL | NULL | 100 | sam | hr |

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

3 rows in set (0.00 sec)

**mysql>**  select \* from emp1

-> left outer join

-> emp2

-> on emp1.id=emp2.id

-> union all

-> select \* from emp1

-> right outer join

-> emp2

-> on emp1.id=emp2.id;

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

| id | name | dept | id | name | dept |

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

| 1 | safan | hr | NULL | NULL | NULL |

| 2 | ravi | dev | 2 | kumar | dev |

| 3 | santosh | tester | NULL | NULL | NULL |

| NULL | NULL | NULL | 100 | sachin | dev |

| 2 | ravi | dev | 2 | kumar | dev |

| NULL | NULL | NULL | 100 | sam | hr |

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

6 rows in set (0.00 sec)

**mysql>**  select \* from emp1 cross join emp2;

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

| id | name | dept | id | name | dept |

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

| 1 | safan | hr | 100 | sachin | dev |

| 2 | ravi | dev | 100 | sachin | dev |

| 3 | santosh | tester | 100 | sachin | dev |

| 1 | safan | hr | 2 | kumar | dev |

| 2 | ravi | dev | 2 | kumar | dev |

| 3 | santosh | tester | 2 | kumar | dev |

| 1 | safan | hr | 100 | sam | hr |

| 2 | ravi | dev | 100 | sam | hr |

| 3 | santosh | tester | 100 | sam | hr |

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

9 rows in set (0.00 sec)

**mysql>**  select e1.id,e1.name,e2.dept from emp1 e1 inner join emp2 e2 on e1.id=e2.id;

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

| id | name | dept |

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

| 2 | ravi | dev |

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

1 row in set (0.00 sec)

**mysql>**  create table emp10(id int, name varchar(20),dept varchar(20),deptid int);

Query OK, 0 rows affected (0.12 sec)

**mysql>**  insert into emp10 values(1,'safan','hr',100);

Query OK, 1 row affected (0.06 sec)

**mysql>**  insert into emp10 values(2,'safan','hr',101);

Query OK, 1 row affected (0.06 sec)

**mysql>**  insert into emp10 values(3,'ravi','dev',1);

Query OK, 1 row affected (0.06 sec)

**mysql>**  insert into emp10 values(4,'sachin','tester',4);

Query OK, 1 row affected (0.05 sec)

**mysql>**  select \* from emp10;

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

| id | name | dept | deptid |

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

| 1 | safan | hr | 100 |

| 2 | safan | hr | 101 |

| 3 | ravi | dev | 1 |

| 4 | sachin | tester | 4 |

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

4 rows in set (0.00 sec)

**mysql>**  select \* from emp10 where id=deptid;

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

| id | name | dept | deptid |

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

| 4 | sachin | tester | 4 |

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

1 row in set (0.00 sec)

**mysql>**  select e1.id,e1.name,e2.dept,e2.deptid from emp10 e1,emp10 e2 where e1.id=e2.id;

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

| id | name | dept | deptid |

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

| 1 | safan | hr | 100 |

| 2 | safan | hr | 101 |

| 3 | ravi | dev | 1 |

| 4 | sachin | tester | 4 |

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

4 rows in set (0.00 sec)

**mysql>**  select e1.id,e1.name,e2.dept,e2.deptid from emp10 e1,emp10 e2 where e1.id=e2.deptid;

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

| id | name | dept | deptid |

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

| 1 | safan | dev | 1 |

| 4 | sachin | tester | 4 |

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

2 rows in set (0.00 sec)

**mysql>**  show databases;

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

| Database |

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

| information\_schema |

| mysql |

| techment |

| test |

| zahra |

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

5 rows in set (0.04 sec)

**mysql>**  use techment;

Database changed

**mysql>**  show tables;

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

| Tables\_in\_techment |

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

| address |

| bangoffice |

| chennai\_office |

| emp1 |

| emp10 |

| emp2 |

| employee |

| student |

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

8 rows in set (0.00 sec)

**mysql>**  select \* from student left outer join address on student.id = address.stuid where student.id>2;

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

| id | name | dept | id | name | stuid |

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

| 3 | suresh | mech | NULL | NULL | NULL |

| 4 | rahul | mech | 103 | bescon | 4 |

| 5 | nita | mech | 110 | newyork | 5 |

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

3 rows in set (0.03 sec)

**mysql>**  select \* from student left outer join address on student.id = address.stuid where student.dept='mech' order by student.id desc;

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

| id | name | dept | id | name | stuid |

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

| 5 | nita | mech | 110 | newyork | 5 |

| 4 | rahul | mech | 103 | bescon | 4 |

| 3 | suresh | mech | NULL | NULL | NULL |

| 2 | ramesh | mech | 102 | bescon | 2 |

| 2 | ramesh | mech | 101 | hsr | 2 |

| 2 | ramesh | mech | 101 | old st | 2 |

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

6 rows in set (0.00 sec)

**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 |

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

**mysql>**  select \* from employee where salary>(Select salary from employee where name='mahesh');

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

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

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

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

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

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

2 rows in set (0.00 sec)

**mysql>**  select id, name from employee where salary>(Select salary from employee where name='mahesh');

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

| id | name |

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

| 1 | sachin |

| 4 | sahin |

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

2 rows in set (0.00 sec)

**mysql>**  select salary from employee where dept="manager";

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

| salary |

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

| 5.667e+006 |

| 25667 |

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

2 rows in set (0.00 sec)

**mysql>**  select salary from employee where salary > all(select salary from employee where dept="manager");

Empty set (0.00 sec)

**mysql>**  select salary from employee where salary > all(select salary from employee where dept="hr");

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

| salary |

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

| 5.667e+006 |

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

1 row in set (0.00 sec)