**Experiment: 3**

**mysql> create table student(rollno int, name char(50), address char (60));**

Query OK, 0 rows affected (0.14 sec)

**mysql> desc student;**

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

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

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

| rollno | int | YES | | NULL | |

| name | char(50) | YES | | NULL | |

| address | char(60) | YES | | NULL | |

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

3 rows in set (0.04 sec)

**mysql> insert into student(rollno,name,address)values (26,'shrushti','sangli');**

Query OK, 1 row affected (0.01 sec)

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

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

| rollno | name | address |

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

| 26 | shrushti | sangli |

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

1 row in set (0.00 sec)

**mysql> insert into student(rollno,name,address)values (27,'shradha','pune');**

Query OK, 1 row affected (0.01 sec)

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

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

| rollno | name | address |

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

| 26 | shrushti | sangli |

| 27 | shradha | pune |

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

2 rows in set (0.00 sec)

**mysql> insert into student(rollno,name,address)values (28,'sakshi','kolhapur');**

Query OK, 1 row affected (0.00 sec)

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

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

| rollno | name | address |

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

| 26 | shrushti | sangli |

| 27 | shradha | pune |

| 28 | sakshi | kolhapur |

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

3 rows in set (0.00 sec)

**mysql> update student set name="madhura" where name='sakshi';**

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

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

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

| rollno | name | address |

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

| 26 | shrushti | sangli |

| 27 | shradha | pune |

| 28 | madhura | kolhapur |

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

3 rows in set (0.00 sec)

**mysql> alter table student add Age int;**

Query OK, 0 rows affected (0.12 sec)

Records: 0 Duplicates: 0 Warnings: 0

**mysql> desc student;**

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

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

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

| rollno | int | YES | | NULL | |

| name | char(50) | YES | | NULL | |

| address | char(60) | YES | | NULL | |

| Age | int | YES | | NULL | |

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

4 rows in set (0.01 sec)

**mysql> update student set age=19 where name='madhura';**

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

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

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

| rollno | name | address | Age |

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

| 26 | shrushti | sangli | NULL |

| 27 | shradha | pune | NULL |

| 28 | madhura | kolhapur | 19 |

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

3 rows in set (0.00 sec)

**mysql> update student set age=20 where name='shradha';**

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

**mysql> update student set age=14 where name='shrushti';**

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

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

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

| rollno | name | address | Age |

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

| 26 | shrushti | sangli | 14 |

| 27 | shradha | pune | 20 |

| 28 | madhura | kolhapur | 19 |

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

3 rows in set (0.00 sec)

**mysql> alter table student modify column address char(80);**

Query OK, 3 rows affected (0.10 sec)

Records: 3 Duplicates: 0 Warnings: 0

**mysql> desc student;**

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

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

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

| rollno | int | YES | | NULL | |

| name | char(50) | YES | | NULL | |

| address | char(80) | YES | | NULL | |

| Age | int | YES | | NULL | |

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

4 rows in set (0.00 sec)

**mysql> alter table student rename column name to firstname;**

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

**mysql> desc student;**

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

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

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

| rollno | int | YES | | NULL | |

| firstname | char(50) | YES | | NULL | |

| address | char(80) | YES | | NULL | |

| Age | int | YES | | NULL | |

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

4 rows in set (0.00 sec)

**mysql> alter table student drop column age;**

Query OK, 0 rows affected (0.11 sec)

Records: 0 Duplicates: 0 Warnings: 0

**mysql> desc student;**

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

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

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

| rollno | int | YES | | NULL | |

| firstname | char(50) | YES | | NULL | |

| address | char(80) | YES | | NULL | |

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

3 rows in set (0.00 sec)

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

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

| rollno | firstname | address |

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

| 26 | shrushti | sangli |

| 27 | shradha | pune |

| 28 | madhura | kolhapur |

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

3 rows in set (0.00 sec)

**Experiment: 4**

**mysql> create table department(deptno int,name varchar(50), address varchar(50));**

Query OK, 0 rows affected (0.04 sec)

**mysql> insert into department(deptno,name,address)values(1234,'computer science','kolhapur');**

Query OK, 1 row affected (0.01 sec)

**mysql> insert into department(deptno,name,address)values(3214,'physics','mumbai');**

Query OK, 1 row affected (0.01 sec)

**mysql> insert into department(deptno,name,address)values(1357,'electronics','pune');**

Query OK, 1 row affected (0.01 sec)

**mysql> insert into department(deptno,name,address)values(8765,'finance','sangli');**

Query OK, 1 row affected (0.01 sec)

**mysql> select \* from department;**

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

| deptno | name | address |

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

| 1234 | computer science | kolhapur |

| 3214 | physics | mumbai |

| 1357 | electronics | pune |

| 8765 | finance | sangli |

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

4 rows in set (0.01 sec)

**mysql> select deptno ,name from department;**

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

| deptno | name |

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

| 1234 | computer science |

| 3214 | physics |

| 1357 | electronics |

| 8765 | finance |

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

4 rows in set (0.00 sec)

**mysql> insert into department(deptno,name,address)values(2143,'mathamatics','satara');**

Query OK, 1 row affected (0.01 sec)

**mysql> select \* from department;**

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

| deptno | name | address |

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

| 1234 | computer science | kolhapur |

| 3214 | physics | mumbai |

| 1357 | electronics | pune |

| 8765 | finance | sangli |

| 2143 | mathamatics | satara |

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

5 rows in set (0.00 sec)

**mysql> update department set deptno=7654 where deptno=1234;**

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

**mysql> select \* from department;**

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

| deptno | name | address |

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

| 7654 | computer science | kolhapur |

| 3214 | physics | mumbai |

| 1357 | electronics | pune |

| 8765 | finance | sangli |

| 2143 | mathamatics | satara |

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

5 rows in set (0.00 sec)

**mysql> delete from department where deptno=1357;**

Query OK, 1 row affected (0.01 sec)

**mysql> select \* from department;**

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

| deptno | name | address |

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

| 7654 | computer science | kolhapur |

| 3214 | physics | mumbai |

| 8765 | finance | sangli |

| 2143 | mathamatics | satara |

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

4 rows in set (0.00 sec)

**Experiment: 5**

**#notnull**

**mysql> create table persons(id int NOT NULL,lastname varchar(255)NOT NULL,firstname varchar(255)NOT NULL,age int);**

Query OK, 0 rows affected (0.04 sec)

**mysql> desc persons;**

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

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

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

| id | int | NO | | NULL | |

| lastname | varchar(255) | NO | | NULL | |

| firstname | varchar(255) | NO | | NULL | |

| age | int | YES | | NULL | |

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

4 rows in set (0.01 sec)

**#unique**

**mysql> create table persons1(id int NOT NULL,lastname varchar(255)NOT NULL,firstname varchar(255)NOT NULL,age int);**

Query OK, 0 rows affected (0.04 sec)

**mysql> desc persons1;**

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

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

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

| id | int | NO | | NULL | |

| lastname | varchar(255) | NO | | NULL | |

| firstname | varchar(255) | NO | | NULL | |

| age | int | YES | | NULL | |

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

4 rows in set (0.00 sec)

**#primarykey**

**mysql> create table persons2(id int NOT NULL primary key,lastname varchar(255)NOT NULL,firstname varchar(255)NOT NULL,age int);**

Query OK, 0 rows affected (0.04 sec)

**mysql> desc persons2;**

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

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

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

| id | int | NO | PRI | NULL | |

| lastname | varchar(255) | NO | | NULL | |

| firstname | varchar(255) | NO | | NULL | |

| age | int | YES | | NULL | |

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

4 rows in set (0.01 sec)

**#check**

**mysql> create table persons3(id int NOT NULL,lastname varchar(255)NOT NULL,firstname varchar(255),age int check(age >= 18));**

Query OK, 0 rows affected (0.04 sec)

**mysql> desc persons3;**

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

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

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

| id | int | NO | | NULL | |

| lastname | varchar(255) | NO | | NULL | |

| firstname | varchar(255) | YES | | NULL | |

| age | int | YES | | NULL | |

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

4 rows in set (0.01 sec)

**#default**

**mysql> create table persons4(id int NOT NULL,lastname varchar(255)NOT NULL,firstname varchar(255),age int, city varchar(255) default 'sandnes');**

Query OK, 0 rows affected (0.04 sec)

**mysql> desc persons4;**

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

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

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

| id | int | NO | | NULL | |

| lastname | varchar(255) | NO | | NULL | |

| firstname | varchar(255) | YES | | NULL | |

| age | int | YES | | NULL | |

| city | varchar(255) | YES | | sandnes | |

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

5 rows in set (0.01 sec)

**Experiment:6**

**#on delete cascade**

**mysql> create table employes**

**-> (**

**-> empid int primary key,**

**-> name varchar(50));**

Query OK, 0 rows affected (0.03 sec)

**mysql> create table salarie(**

**-> salaryid int primary key,**

**-> empid int,**

**-> salary decimal(10.2),**

**-> foreign key(empid)references employes(empid)on delete cascade);**

Query OK, 0 rows affected (0.06 sec)

**mysql> insert into employes values (1,'john'),(2,'riya'),(3,'divya');**

Query OK, 3 rows affected (0.01 sec)

Records: 3 Duplicates: 0 Warnings: 0

**mysql> select \* from employes;**

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

| empid | name |

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

| 1 | john |

| 2 | riya |

| 3 | divya |

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

3 rows in set (0.00 sec)

**mysql> insert into salarie values (11,1,40000),(12,2,45000),(13,3,50000);**

Query OK, 3 rows affected (0.01 sec)

Records: 3 Duplicates: 0 Warnings: 0

**mysql> select \* from salarie;**

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

| salaryid | empid | salary |

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

| 11 | 1 | 40000 |

| 12 | 2 | 45000 |

| 13 | 3 | 50000 |

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

3 rows in set (0.00 sec)

**mysql> delete from employes where empid=1;**

Query OK, 1 row affected (0.01 sec)

**mysql> select \* from salarie;**

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

| salaryid | empid | salary |

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

| 12 | 2 | 45000 |

| 13 | 3 | 50000 |

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

2 rows in set (0.00 sec)

**#on delete set null**

**mysql> create table course(**

**-> courseid int primary key,**

**-> coursename varchar(50));**

Query OK, 0 rows affected (0.04 sec)

**mysql> create table stud(**

**-> stdid int primary key,**

**-> stdname varchar(50),**

**-> courseid int,**

**-> foreign key (courseid)references course(courseid) on delete set null);**

Query OK, 0 rows affected (0.05 sec)

**mysql> insert into course values(101,'maths'),(102,'physics');**

Query OK, 2 rows affected (0.01 sec)

Records: 2 Duplicates: 0 Warnings: 0

**mysql> select \* from course;**

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

| courseid | coursename |

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

| 101 | maths |

| 102 | physics |

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

2 rows in set (0.00 sec)

**mysql> insert into stud values (1,'alice',101),(2,'john',101),(3,'savi',101);**

Query OK, 3 rows affected (0.01 sec)

Records: 3 Duplicates: 0 Warnings: 0

**mysql> select \* from stud;**

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

| stdid | stdname | courseid |

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

| 1 | alice | 101 |

| 2 | john | 101 |

| 3 | savi | 101 |

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

3 rows in set (0.00 sec)

**mysql> delete from course where courseid=101;**

Query OK, 1 row affected (0.01 sec)

**mysql> select \* from stud;**

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

| stdid | stdname | courseid |

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

| 1 | alice | NULL |

| 2 | john | NULL |

| 3 | savi | NULL |

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

3 rows in set (0.00 sec)

**Experiment: 7**

**mysql> create table marks(sub char(50), rollno int, marks int);**

Query OK, 0 rows affected (0.04 sec)

**mysql> desc marks;**

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

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

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

| sub | char(50) | YES | | NULL | |

| rollno | int | YES | | NULL | |

| marks | int | YES | | NULL | |

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

3 rows in set (0.01 sec)

**mysql> insert into marks (sub,rollno,marks)values ('maths',2,68);**

Query OK, 1 row affected (0.01 sec)

**mysql> insert into marks (sub,rollno,marks)values ('science',21,56);**

Query OK, 1 row affected (0.01 sec)

**mysql> insert into marks (sub,rollno,marks)values ('chemistry',31,76);**

Query OK, 1 row affected (0.01 sec)

**mysql> select \* from marks;**

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

| sub | rollno | marks |

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

| maths | 2 | 68 |

| science | 21 | 56 |

| chemistry | 31 | 76 |

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

3 rows in set (0.00 sec)

**mysql> create table marks1(sub char(50),marks int);**

Query OK, 0 rows affected (0.04 sec)

**mysql> desc marks1;**

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

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

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

| sub | char(50) | YES | | NULL | |

| marks | int | YES | | NULL | |

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

2 rows in set (0.01 sec)

**mysql> insert into marks1 (sub,marks)values ('english',87);**

Query OK, 1 row affected (0.01 sec)

**mysql> insert into marks1 (sub,marks)values ('socialscience',96);**

Query OK, 1 row affected (0.01 sec)

**mysql> select \* from marks1;**

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

| sub | marks |

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

| english | 87 |

| socialscience | 96 |

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

2 rows in set (0.00 sec)

**mysql> select marks from marks union select marks from marks1;**

+-------+

| marks |

+-------+

| 68 |

| 56 |

| 76 |

| 87 |

| 96 |

+-------+

5 rows in set (0.01 sec)

**mysql> select \* from marks where MARKS IN (select marks from marks1);**

Empty set (0.01 sec)

**mysql> select MARKS from marks left join marks1 using(marks)where marks1.marks is null;**

+-------+

| MARKS |

+-------+

| 68 |

| 56 |

| 76 |

+-------+

3 rows in set (0.00 sec)

**Experiment:8**

**mysql> create table Stud1(ID int,FNAME varchar(100),LName varchar(100), AGE int);** Query OK, 0 rows affected (0.28 sec)

**mysql> desc Stud1;**

+ + + + + + +

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

+ + + + + + +

| ID | int | YES | | NULL | |

| FNAME | varchar(100) | YES | | NULL | |

| LName | varchar(100) | YES | | NULL | |

| AGE | int | YES | | NULL | |

+ + + + + + +

4 rows in set (0.00 sec)

**mysql> insert into Stud1(ID,FNAME,LNAME,AGE) values(111,"jonh","Smith",20),(112,"Jane","Doe",21),(113,"Sarah","Davis",20);**

Query OK, 3 rows affected (0.09 sec)

Records: 3 Duplicates: 0 Warnings: 0

**mysql> create table Stud2(sno int,sname varchar(100),age int);** Query OK, 0 rows affected (0.51 sec)

**mysql> desc Stud2;**

+ + + + + + +

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

+ + + + + + +

| sno | int | YES | | NULL | |

| sname | varchar(100) | YES | | NULL | |

| age | int | YES | | NULL | |

+ + + + + + +

3 rows in set (0.00 sec)

**mysql> insert into Stud2(sno,sname,age) values(11,"Robert",22),(12,"Jenna",20),(13,"Allan",21);**

Query OK, 3 rows affected (0.08 sec) Records: 3 Duplicates: 0 Warnings: 0

**mysql> select \* from Stud1;**

+ + + + +

| ID | FNAME | LName | AGE |

+ + + + +

| 111 | jonh | Smith | 20 |

| 112 | Jane | Doe | 21 |

| 113 | Sarah | Davis | 20 |

+ + + + +

3 rows in set (0.00 sec)

**mysql> select \* from Stud2;**

+ + + +

| sno | sname | age |

+ + + +

| 11 | Robert | 22 |

| 12 | Jenna | 20 |

| 13 | Allan | 21 |

+ + + +

3 rows in set (0.00 sec)

1. **Inner Join**

**mysql> select Stud1.ID, Stud1.FNAME, Stud2.sno from Stud1 inner join Stud2 on Stud1.AGE=Stud2.Age;**

+ + + +

| ID | FNAME | sno |

+ + + +

| 113 | Sarah | 12 |

| 111 | jonh | 12 |

| 112 | Jane | 13 |

+ + + +

3 rows in set (0.02 sec)

1. **Left Join**

**mysql> select Stud1.ID, Stud1.FNAME from Stud1 left join Stud2 on Stud1.AGE=Stud2.age;**

+ + +

| ID | FNAME |

+ + +

| 111 | jonh |

| 112 | Jane |

| 113 | Sarah |

+ + +

1. rows in set (0.01 sec)

**3.Right Join**

**mysql> select Stud1.ID, Stud1.FNAME from Stud1 right join Stud2 on Stud1.AGE=Stud2.age;**

+ + +

| ID | FNAME |

+ + +

| NULL | NULL |

| 113 | Sarah |

| 111 | jonh |

| 112 | Jane |

+ + +

1. rows in set (0.00 sec)
2. **Full Join**

**mysql> select Stud1.ID, Stud1.FNAME from Stud1 left join Stud2 on Stud1.AGE=Stud2.age**

**-> union**

**->**

**-> select Stud1.ID, Stud1.FNAME from Stud1 right join Stud2 on Stud1.AGE=Stud2.age;**

+ + +

| ID | FNAME |

+ + +

| 111 | jonh |

| 112 | Jane |

| 113 | Sarah |

| NULL | NULL |

+ + +

4 rows in set (0.03 sec)

1. **Cross Join**

**mysql> select Stud1.AGE, Stud1.FNAME from Stud1 cross join Stud2 where Stud1.AGE=Stud2.age;**

+ + +

| AGE | FNAME |

+ + +

| 20 | Sarah |

| 20 | jonh |

| 21 | Jane |

+ + +

3 rows in set (0.00 sec)

1. **Natural Join**

**mysql> select \* from Stud1 natural join Stud2;**

+ + + + + + +

| AGE | ID | FNAME | LName | sno | sname |

+ + + + + + +

| 20 | 113 | Sarah | Davis | 12 | Jenna |

| 20 | 111 | jonh | Smith | 12 | Jenna |

| 21 | 112 | Jane | Doe | 13 | Allan |

+ + + + + + +

3 rows in set (0.01 sec)

1. **Self Join**

**mysql> select a.ID,B.FNAME as ELDER, a. FNAME as SMALLER,a.AGE as LOWER from Stud1 a, Stud1 b where a.AGE>b.AGE;**

+ + + + +

| ID | ELDER | SMALLER | LOWER |

+ + + + +

| 112 | jonh | Jane | 21 |

| 112 | Sarah | Jane | 21 |

+ + + + +

2 rows in set (0.01 sec)

**Experiment: 9**

**mysql> create table Student10(ID int,Name char(50),Marks int);**

Query OK, 0 rows affected (0.55 sec)

**mysql> desc Student10;**

+ + + + + + +

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

+ + + + + + +

| ID | int | YES | | NULL | |

| Name | char(50) | YES | | NULL | |

| Marks | int | YES | | NULL | |

+ + + + + + +

3 rows in set (0.06 sec)

**mysql> insert into Student10(ID,Name,Marks)values(25,'Daisy',78);**

Query OK, 1 row affected (0.07 sec)

**mysql> insert into Student10(ID,Name,Marks)values(56,'John',42);** Query OK, 1 row affected (0.04 sec)

**mysql> insert into Student10(ID,Name,Marks)values(87,'Jenny',80);** Query OK, 1 row affected (0.05 sec)

**mysql> insert into Student10(ID,Name,Marks)values(45,'Davil',64);** Query OK, 1 row affected (0.05 sec)

**mysql> insert into Student10(ID,Name,Marks)values(88,'Johnson',90);** Query OK, 1 row affected (0.03 sec)

**mysql> insert into Student10(ID,Name,Marks)values(8,'Robert',79);** Query OK, 1 row affected (0.04 sec)

**mysql> select \* from Student10;**

+++ +

| ID | Name | Marks |

+++ +

| 25 | Daisy | 78 |

| 56 | John | 42 |

| 87 | Jenny | 80 |

| 45 | Davil | 64 |

| 88 | Johnson | 90 |

| 8 | Robert | 79 |

+ + + +

6 rows in set (0.01 sec)

**mysql> select MIN(Marks)from Student10;**

+ +

| MIN(Marks) |

+ +

| 42 |

+ +

1 row in set (0.02 sec)

**mysql> select MAX(Marks)from Student10;**

+ +

| MAX(Marks) |

+ +

| 90 |

+ +

1 row in set (0.00 sec)

**mysql> select AVG(Marks)from Student10;**

+ +

| AVG(Marks) |

+ +

| 72.1667 |

+ +

1 row in set (0.01 sec)

**mysql> select COUNT(Marks)from Student10;**

+ +

| COUNT(Marks) |

+ +

| 6 |

+ +

1 row in set (0.00 sec)

**mysql> select SUM(Marks)from Student10;**

+ +

| SUM(Marks) |

+ +

| 433 |

+ +

1 row in set (0.00 sec)

**Experiment: 10**

**mysql> select char\_length('Johnson');**

+ +

| char\_length('Johnson') |

+ +

| 7 |

+ +

1 row in set (0.01 sec)

**mysql> select ASCII('Johnson');**

+ +

| ASCII('Johnson') |

+ +

| 74 |

+ +

1 row in set (0.00 sec)

**mysql> select concat('Johnson');**

+ +

| concat('Johnson') |

+ +

| Johnson |

+ +

1 row in set (0.04 sec)

**mysql> select concat('Johnson') as fullname;**

+ +

| fullname |

+ +

| Johnson |

+ +

1 row in set (0.00 sec)

**mysql> select upper('hello');**

+ +

| upper('hello') |

+ +

| HELLO |

+ +

1 row in set (0.01 sec)

**mysql> select lower('HELLO');**

+ +

| lower('HELLO') |

+ +

| hello |

+ +

1 row in set (0.00 sec)

**mysql> select reverse('HELLO');**

+ +

| reverse('HELLO') |

+ +

| OLLEH |

+ +

1 row in set (0.00 sec)

**mysql> select lcase('We ALl are CSE Students');**

+ +

| lcase('We ALl are CSE Students') |

+ +

| we all are cse students |

+ +

1 row in set (0.00 sec)

**mysql> select ucase('We ALl are CSE Students');**

+ +

| ucase('We ALl are CSE Students') |

+ +

| WE ALL ARE CSE STUDENTS |

+ +

1 row in set (0.00 sec)

**mysql> select repeat('HELLO', 2);**

+ +

| repeat('HELLO', 2) |

+ +

| HELLOHELLO |

+ +

1 row in set (0.00 sec)