```
create table tbl_student
(
        enro_no int primary key,
        name varchar(20) not null,
        class varchar(5) not null,
        division varchar(5) not null
);

insert into tbl_student values(101,'om','1','A');
insert into tbl_student values(102,'Abhay','1','B');
insert into tbl_student values(103,'Harsh','1','c');

mysql> select * from tbl_student;
+---------+-------+-------+----------+
| enro_no | name  | class | division |
+---------+-------+-------+----------+
|     101 | om    | 1     | A        |
|     102 | Abhay | 1     | B        |
|     103 | Harsh | 1     | c        |
+---------+-------+-------+----------+
3 rows in set (0.00 sec)

create function f1(id int)
returns varchar(20)
begin
        declare sname varchar(20);
        select name into sname from tbl_student where enro_no=id;
        return sname;
end;

mysql> select f1(102)@
+---------+
| f1(102) |
+---------+
| Abhay   |
+---------+
1 row in set (0.14 sec)
```

==
                                                                 2


```
create table tbl_recharge_master
(
        rid int primary key,
        cid int not null,
        mobile_no bigint not null,
        recharge_amount decimal(15,2)
```

```
);

insert into tbl_recharge_master values(101,111,9313124842,500);
insert into tbl_recharge_master values (102,112,9313124842,350);
insert into tbl_recharge_master values (103,113,9313124842,500);
insert into tbl_recharge_master values  (104,114,9313124842,400);
insert into tbl_recharge_master values(105,115,9313124842,200);
```

```
mysql> select * from tbl_recharge_master;@
+-----+-----+------------+-----------------+
| rid | cid | mobile_no  | recharge_amount |
+-----+-----+------------+-----------------+
| 101 | 111 | 9313124842 |          500.00 |
| 102 | 112 | 9313124842 |          350.00 |
| 103 | 113 | 9313124842 |          500.00 |
| 104 | 114 | 9313124842 |          400.00 |
| 105 | 115 | 9313124842 |          200.00 |
+-----+-----+------------+-----------------+
5 rows in set (0.00 sec)
```

```
create function f2 (num bigint)
returns int
begin
        declare total int;
        select count(recharge_amount) into total from tbl_recharge_master where
mobile_no=num;
        return total;
end;
```

```
mysql> select f2(9313124842)@
+----------------+
| f2(9313124842) |
+----------------+
|              5 |
+----------------+
1 row in set (0.78 sec)
```



```
create table student1
(
        sid int primary key,
        course varchar(50),
        passingpercent decimal(5,2),
        percentscored decimal(5,2),
        result varchar(20)
```

```
);


insert into student1 values (101,'MSC.IT',40.00,85.40,'first class');
insert into student1 values (102,'BBA',34.00,89.89,'first class');
insert into student1 values (103,'BCA',45.00,33.90,'fail');
insert into student1 values (104,'B.com.',40.00,40.90,'fail');
insert into student1 values (105,'B.tech.',43.00,75.70,'first class');
insert into student1 values (106,'Msc_it',40.00,61.90,'second class');
insert into student1 values (107,'Msc_it',40.00,33.90,'fail');

mysql> select * from student1;@
+-----+---------+---------------+--------------+-------------+
| sid | course  | passingpercent | percentscored | result      |
+-----+---------+---------------+--------------+-------------+
| 101 | MSC.IT  |         40.00 |        85.40 | first class |
| 102 | BBA     |         34.00 |        89.89 | first class |
| 103 | BCA     |         45.00 |        33.90 | fail        |
| 104 | B.com.  |         40.00 |        40.90 | fail        |
| 105 | B.tech. |         43.00 |        75.70 | first class |
| 106 | Msc_it  |         40.00 |        61.90 | second class |
| 107 | Msc_it  |         40.00 |        33.90 | fail        |
+-----+---------+---------------+--------------+-------------+
7 rows in set (0.00 sec)

create function f3(sc varchar(50))
returns int
begin
        declare pass int;
        select count(result) into pass from student1 where course=sc &&
result='fail';
        return pass;
end;

mysql> select f3('Msc_it')@
+--------------+
| f3('Msc_it') |
+--------------+
|            1 |
+--------------+
1 row in set (0.00 sec)
```


4


```
create table attendance
(
```

```
        enro_no int not null,
        subjectname varchar(25) not null,
        status varchar(20) not null,
        adate date not null
);

insert into attendance values (11,'oop','absent','2020/09/19');
insert into attendance values (12,'management','absent','2021/08/10');
insert into attendance values (12,'rdbms','absent','2020/07/15');
insert into attendance values (13,'maths','absent','2021/06/13');
insert into attendance values (17,'english','absent','2020/05/09');
insert into attendance values (15,'dbms','absent','2021/04/22');
insert into attendance values (12,'stat','absent','2020/03/30');
insert into attendance values (12,'stat','absent','2021/02/01');
```

```
mysql> select * from attendance@
+---------+-------------+--------+------------+
| enro_no | subjectname | status | adate      |
+---------+-------------+--------+------------+
|      11 | oop         | absent | 2020-09-19 |
|      12 | management  | absent | 2021-08-10 |
|      12 | rdbms       | absent | 2020-07-15 |
|      13 | maths       | absent | 2021-06-13 |
|      17 | english     | absent | 2020-05-09 |
|      15 | dbms        | absent | 2021-04-22 |
|      12 | stat        | absent | 2020-03-30 |
|      12 | stat        | absent | 2021-02-01 |
+---------+-------------+--------+------------+
8 rows in set (0.00 sec)
```

```
create function f4(id int)
returns decimal(5,2)
begin
        declare total int;
        declare per decimal(5,2);
        select count(status) into total from attendance where enro_no=id &&
status='absent';
        set per=total*100/30;
        return per;
end;
```

```
mysql> select f4(11)@
+--------+
| f4(11) |
+--------+
|   3.33 |
+--------+
1 row in set, 1 warning (0.00 sec)
-------------------------------------------------------------------------------
-----------------------------------------------------
```


```
create table tbl_epartment
(
        dno int primary key,
        dname varchar(20) not null,
        spcialist  varchar(20) not null
);




create table tbl_faculty
(
        fid int primary key,
        fname varchar(20) not null,
        qualification varchar(20) not null,
        dno int references tbl_department(dno)
);
```