DBMS LAB -7 SOLUTION

1.---------with function----------

```
delimiter //
create function dept_count ( faculty_name varchar(40))
returns integer
begin
declare d_count integer;
select count(*) into d_count
from  class,enrolled,faculty,student
where class.name=enrolled.cname and enrolled.snum=student.snum and class.fid=faculty.fid and
faculty.fname=faculty_name;
return d_count;
end//

select dept_count();
```

1b.

```
 select  fname from faculty where dept_count(fname)>1;
```

2.------with procedure--------

```
delimiter //
create procedure dept_count_student (in course_name varchar(30),
out d_count int(10))
begin
select count(*) into d_count
from enrolled
where enrolled.cname = course_name and enrolled.grade='F';
end; //


call dept_count_student('Operating System Design',@count);
select @count;
```

```
2.---with function----
delimiter //
create function stu_count ( course_name varchar(40))
returns integer
begin
declare d_count1 integer;
select count(*) into d_count1
from  enrolled
where enrolled.cname=course_name and enrolled.grade='F';
return d_count1;
end//
```

```
select stu_count();
```

select distinct fname from faculty,class ,enrolled where faculty.fid=class.fid and class.name=enrolled.cname and stu_count(class.name)>1;

sol 3: ----------trigger----------

```
delimiter //

create trigger tot_time after insert on works
for each row
 begin
  declare time integer;
   select  sum(pct_time) into time from works where works.eid=new.eid;
   if time>100
    then
      SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'pct_time cannot be more than 100%';
end if;

end;  //

delimiter;



delimiter //

create trigger tot_time1 after update on works
for each row
 begin
  declare time integer;
   select  sum(pct_time) into time from works where works.eid=new.eid;
   if time>100
    then
      SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'pct_time cannot be more than 100%';
end if;

end;  //

delimiter;
```