delimiter //

create procedure library(in roll int , in book varchar(255) , in dt date)

begin

    declare dt2 int;

    declare fine\_amt int;

    declare book\_status varchar(1);

    declare book\_date varchar(20);

    declare continue handler for sqlstate '02000'

    begin

    select "no records found " as errormessage;

    end;

    select Date\_of\_issue , Status into book\_date , book\_status from borrower where Roll\_no = roll;

    if book\_status is NULL then

        signal sqlstate '45000'

        set MESSAGE\_TEXT = 'No record found';

    else

        set dt2 = datediff(book\_date , dt);

        if book\_status = 'I' then

            if dt2 <= 14 then

                set fine\_amt = 0;

            elseif dt2 <= 30 then

                set fine\_amt = dt2 \* 5;

            else

                set fine\_amt = dt \* 50;

            end if;

            insert into fine(Roll\_no , Date\_of\_submission , Amount) values(roll , dt , fine\_amt);

            update borrower set Status = 'R' where Roll\_no = roll and Book\_name = book;

        else

            select "Book already returned" as message;

        end if;

    end if;

end //

**procedure2**

delimiter $$

create procedure calc()

begin

    declare v\_rad int;

    declare v\_area float;

    declare continue handler for sqlexception

    begin

        signal sqlstate '45000'

        set MESSAGE\_TEXT 'an error occured';

    end;

    set v\_rad = 5;

    while v\_rad <= 9 do

        set v\_area = 3.14 \* power(v\_rad , 2);

        insert into area(radius , area) values (v\_rad, v\_area);

        set v\_rad = v\_rad+1;

    end while;

 end $$