**1**

drop procedure if exists greatest;

DELIMITER $$

create procedure greatest(in a int,in b int,in c int,out g int)

BEGIN

if a>=b and a>=c then

set g=a;

elseif b>=a and b>=c then

set g=b;

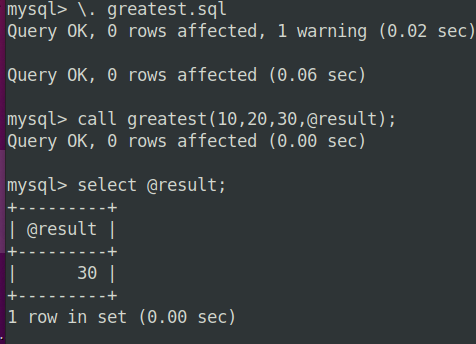
else

set g=c;

end if;

END $$

DELIMITER ;



**1.1**

DELIMITER $$

create procedure greatest1(in a int,in b int, in c int)

BEGIN

declare r varchar(100);

if (a>b) then

if (a>c) then

set r=concat(a," is greatest");

else

set r=concat(c," is greatest");

end if;

else if (b>c) then

set r=concat(b," is greatest");

else

set r=concat(c," is greatest");

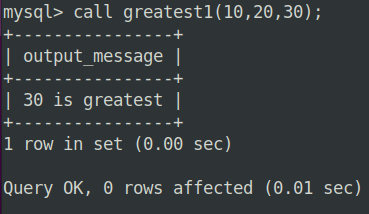
end if;

end if;

select r as output\_message;

END $$

DELIMITER ;



**2**

DELIMITER $$

create procedure nosbtw(in a int,in b int)

BEGIN

DECLARE counter INT;

DECLARE RESULT VARCHAR(100);

SET counter = LEAST(a,b);

SET RESULT = " ";

num: LOOP

SET RESULT = CONCAT(RESULT,counter,' ');

SET counter=counter+1;

IF counter >= GREATEST (a,b) THEN

LEAVE num;

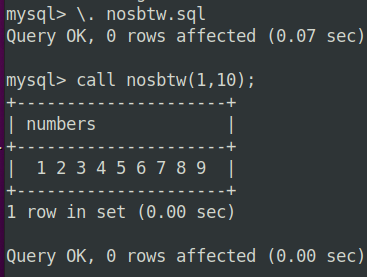
END IF;

END LOOP;

SELECT RESULT AS numbers;

END $$

DELIMITER ;



**3**

DELIMITER $$

DROP PROCEDURE IF EXISTS series;

CREATE PROCEDURE series(IN a INT, OUT sum INT)

BEGIN

DECLARE counter INT DEFAULT 1;

DECLARE total INT DEFAULT 0;

WHILE counter <= a DO

SET total = total + counter;

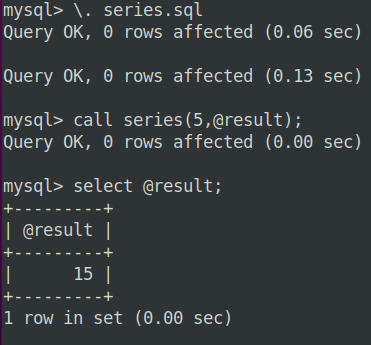
SET counter = counter + 1;

END WHILE;

SET sum = total;

END$$

DELIMITER ;



**7**

DELIMITER $$

DROP PROCEDURE IF EXISTS customer;

CREATE PROCEDURE customer(

IN cname VARCHAR(15),

OUT cid INT,

OUT ccity VARCHAR(15),

OUT ccredits VARCHAR(10)

)

BEGIN

SELECT id, city, credits

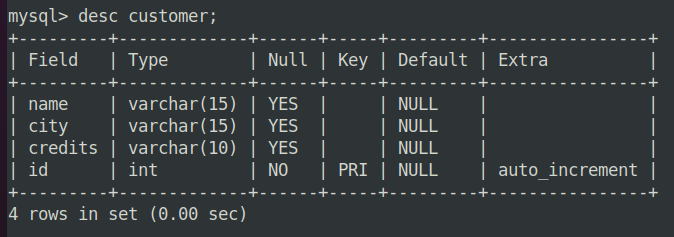
INTO cid, ccity, ccredits

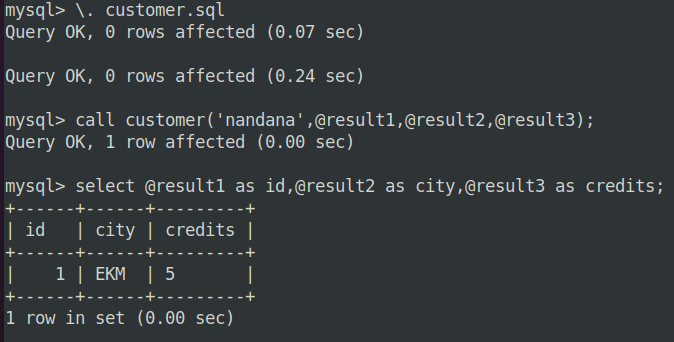
FROM customer

WHERE name=cname;

END $$

DELIMITER ;





**8**

drop procedure if exists membership;

DELIMITER $$

CREATE PROCEDURE membership(

IN cname VARCHAR(15),

OUT cid INT,

OUT ccity VARCHAR(15),

OUT ccredits VARCHAR(10),

out mem varchar(50)

)

BEGIN

SELECT id, city, credits

INTO cid, ccity, ccredits

FROM customer

WHERE name=cname;

if ccredits>5000 then

set mem="Platinum";

elseif ccredits>=1000 and ccredits<=5000 then

set mem="Gold";

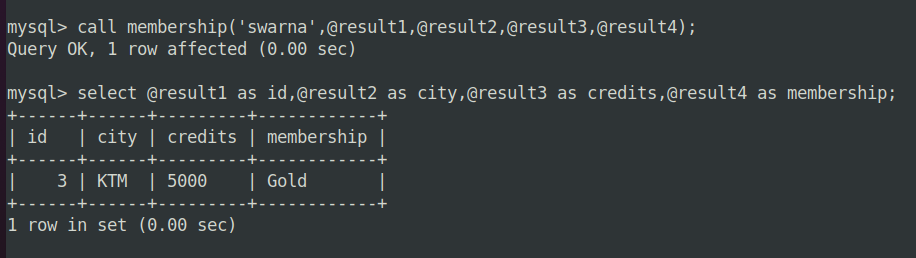
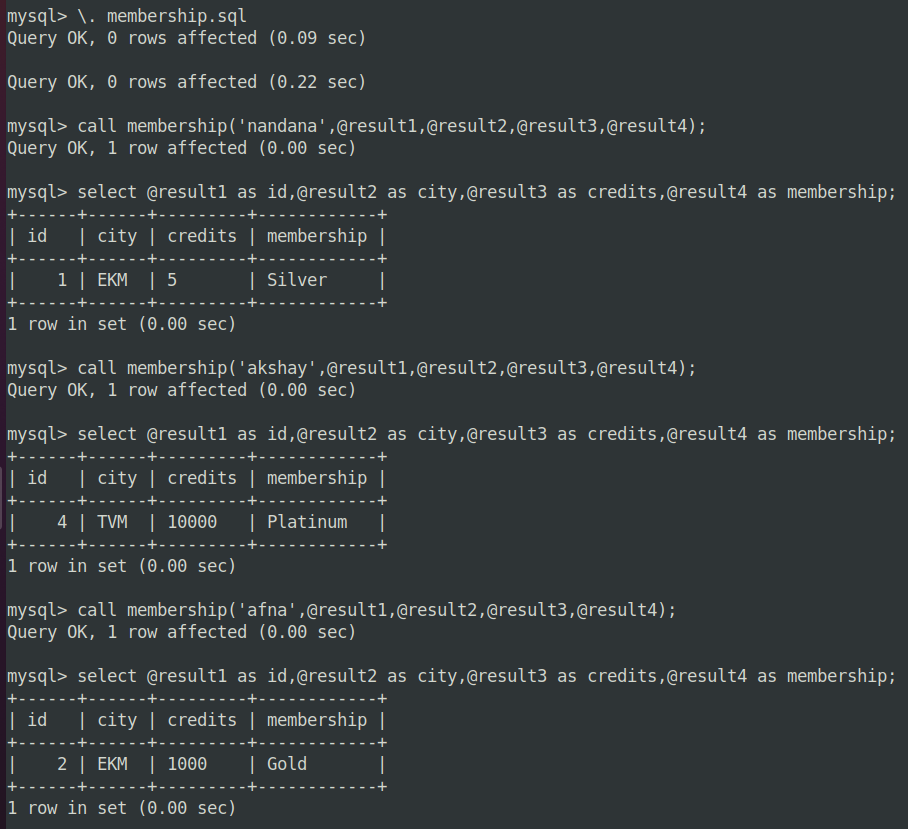
else

set mem="Silver";

end if;

END $$

DELIMITER ;



**11**

DELIMITER $$

create procedure emp\_salary()

BEGIN

declare finished integer default 0;

declare id varchar(10);

declare desig varchar(50);

declare days int;

declare sal int;

declare curSal CURSOR FOR SELECT emp\_id,designation,no\_of\_working\_days FROM emp\_salary;

declare CONTINUE HANDLER FOR NOT FOUND SET finished=1;

OPEN curSal;

L1: LOOP

Fetch curSal INTO id,desig,days;

if finished=1 then

LEAVE L1;

END IF;

if(desig='Assistant Professor') then

set sal = days\*1750;

elseif (desig='Programmer') then

set sal = days\*1250;

elseif (desig='Clerk') then

set sal = days\*750;

end if;

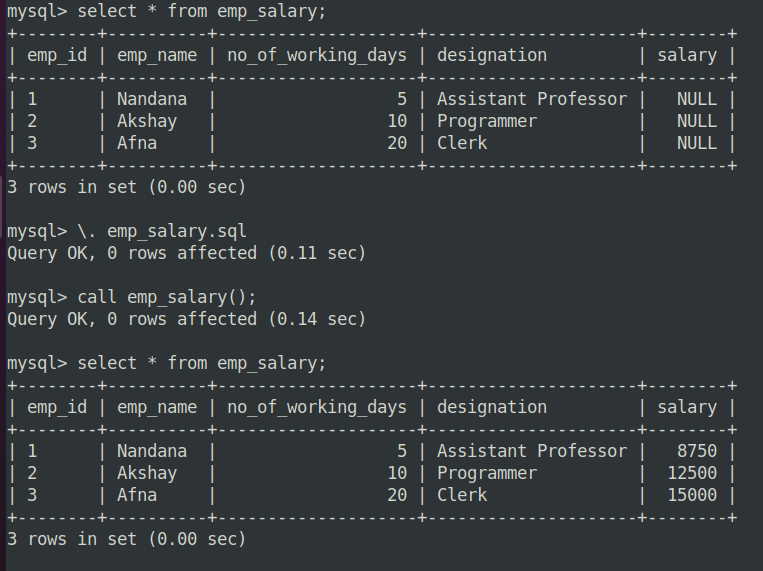
UPDATE emp\_salary set salary=sal where emp\_id=id;

end LOOP L1;

CLOSE curSal;

end $$

DELIMITER ;



DELIMITER $$

drop procedure if exists email\_list;

create procedure email\_list(INOUT list varchar(4000))

BEGIN

declare finished integer default 0;

declare email\_id varchar(50);

declare curEmail CURSOR FOR SELECT email FROM emp\_salary;

declare CONTINUE HANDLER FOR NOT FOUND SET finished=1;

OPEN curEmail;

Fetch curEmail INTO list;

L1: LOOP

if finished=1 then

LEAVE L1;

END IF;

fetch curEmail into email\_id;

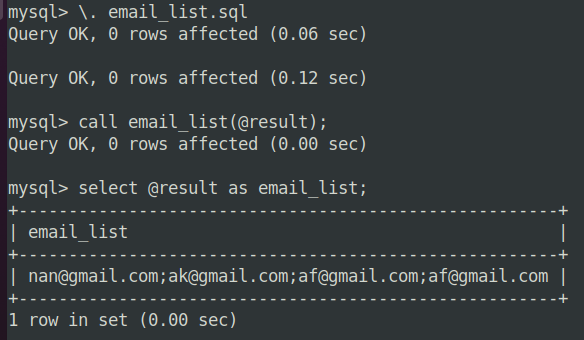
set list=concat(list,';',email\_id);

end LOOP L1;

CLOSE curEmail;

end $$

DELIMITER ;



**12**

DELIMITER $$

drop procedure if exists bill;

CREATE PROCEDURE bill()

BEGIN

DECLARE finished INT DEFAULT 0;

DECLARE v\_customer\_id INT;

DECLARE v\_name VARCHAR(50);

DECLARE v\_pre\_reading varchar(50);

DECLARE v\_cur\_reading varchar(50);

DECLARE v\_units DECIMAL(10,2);

DECLARE v\_amount DECIMAL(10,2);

DECLARE curBill CURSOR FOR SELECT customer\_id, name, pre\_reading, cur\_reading FROM bill;

DECLARE CONTINUE HANDLER FOR NOT FOUND SET finished = 1;

OPEN curBill;

L1: LOOP

FETCH curBill INTO v\_customer\_id, v\_name, v\_pre\_reading, v\_cur\_reading;

IF finished=1 THEN

LEAVE L1;

END IF;

SET v\_units = v\_cur\_reading - v\_pre\_reading;

IF v\_units <= 100 THEN

SET v\_amount = v\_units \* 2;

ELSEIF v\_units <= 200 THEN

SET v\_amount = 100 \* 2 + (v\_units - 100) \* 2.5;

ELSEIF v\_units <= 300 THEN

SET v\_amount = 100 \* 2 + 100 \* 2.5 + (v\_units - 200) \* 3;

ELSE

SET v\_amount = 100 \* 2 + 100 \* 2.5 + 100 \* 3 + (v\_units - 300) \* 4;

END IF;

UPDATE bill SET unit = v\_units, amount = v\_amount WHERE customer\_id = v\_customer\_id;

END LOOP;

CLOSE curBill;

END $$

DELIMITER ;

