Create table EMP ( EMPNO numeric(4) not null, ENAME varchar(30) not null, JOB varchar(10), MGR numeric(4), HIREDATE date, SAL numeric(7,2), DEPTNO numeric(2) );

Insert into EMP values(1000, 'Manish' , 'SALESMAN', 1003, '2020-02-18', 600, 30) ;

Insert into EMP values(1001, 'Manoj' , 'SALESMAN', 1003, '2018-02-18', 600, 30) ;

Insert into EMP values(1002 , 'Ashish', 'SALESMAN',1003 , '2013-02-18', 750, 30 );

Insert into EMP values(1004, 'Rekha', 'ANALYST', 1006 , '2001-02-18', 3000, 10);

Insert into EMP values(1005 , 'Sachin', 'ANALYST', 1006 , '2019-02-18', 3000, 10 );

Insert into EMP values(1006, 'Pooja', 'MANAGER' , null , '2000-02-18' ,6000, 10 );

Create table dept (dno numeric(4) not null, dname varchar(10) not null,area varchar(30));

Insert into dept(dno,dname,area) values(10,'Store','Mumbai');

Insert into dept(dno,dname,area) values(20,'Purchase','Mumbai');

Insert into dept(dno,dname,area) values(30,'Store', 'Delhi');

Insert into dept(dno,dname,area) values(40,'Marketing','Pune');

Insert into dept(dno,dname,area) values(50,'Finance','Delhi');

Insert into dept(dno,dname,area) values(60,'Accounts','Mumbai');

select \* from emp;

-- 1. Write a Procedure that accepts values of two non-zero numbers

-- using IN parameter and perform addition, subtraction, multiplication, division and print.

delimiter $$

create procedure calculate(IN var1 int, var2 int)

begin

select var1+var2;

select var1-var2;

select var1\*var2;

select var1/var2;

end $$

call calculate(4,5);

-- 2. Write a Procedure to print the string in REVERSE order.

-- Take the input using IN parameter. (Ex. Database , o/p: esabatad)

-- Using IN:

delimiter $$

create procedure str\_rev\_in(in var varchar(10))

begin

select reverse(var) as Reversed;

end $$

call str\_rev\_in('SUMIT');

-- Using OUT:

delimiter $$

create procedure str\_rev\_out(in var1 varchar(20),out var varchar(20))

begin

select reverse(var1) into var;

end $$

set @var='';

call str\_rev\_out('Sumit',@var);

select @var as Reversed;

-- Using INOUT:

delimiter $$

create procedure str\_rev\_inout(inout var varchar(10))

begin

declare var1 varchar(10);

select reverse(var) into var;

end $$

set @var="SUMIT";

call str\_rev\_inout(@var);

select @var as Reversed;

-- 3. Write a Procedure to display top 5 employee based on highest salary

-- and display employee number, employee name and salary.

delimiter $$

create procedure top5()

begin

select empno, ename, sal from emp order by sal desc limit 5;

end $$

call top5();

drop procedure top5;

-- 4. Write a Procedure to create table emp\_test with e\_id integer, e\_name varchar(10), e\_joining\_date date as columns

-- Insert into test values(1000, 'Manish' , '2019-07-28') ;

-- Insert into test values(1001, 'Meena' , '2020-02-18') ;

-- Insert into test values(1002, 'Shyam' , '2018-04-16') ;

-- Insert into test values(1003, 'Ram' , '2019-05-24') ;

delimiter $$

create procedure emp\_test()

begin

create table test (e\_id int(5), e\_name varchar(10), e\_joining\_date date);

end $$

call emp\_test();

select \* from test;

-- 5. Write a Procedure to add a department row in the DEPT table with the following values for

-- columns deptno value 60, Dname value should be â€˜Educationâ€™, area value should be Pune.

delimiter $$

create procedure add\_row()

begin

insert into dept value(60, 'Education', 'Pune');

end $$

call add\_row();

select \* from dept;

-- 6. Write a program that declares an integer variable called num, assigns a value to it

-- and print the value of the variable itself, its square, and its cube.

delimiter $$

create procedure prog1(in num int)

begin

select num, power(num,2), power(num,3) as Number1, SquareOfNo, CubeOfNo;

end $$

call prog1(6);

-- 7. Write a program that declares an integer variable assign a value to it and display it using OUT parameter.

delimiter $$

create procedure var\_out1(out var1 int)

begin

declare output int;

set output = 25;

select output into var1;

end $$

call var\_out1(@a);

select @a as Variable;

-- 8. Write a program that demonstrates the usage of IN and OUT parameters.

delimiter $$

create procedure var\_out(in var1 int, out var2 int)

begin

declare output int;

set output = var1;

select output into var2;

end $$

set @var2=0;

call var\_out(15,@var2);

select @var2 as Variable;