**MySQL Programs (Stored Procedure)**

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), DNO numeric(2) );

Insert into EMP (EMPNO ,ENAME, JOB, MGR, HIREDATE, SAL, DNO ) values(1000, 'Manish' , 'SALESMAN', 1003, '2020-02-18', 600, 30) ;

Insert into EMP (EMPNO ,ENAME, JOB, MGR, HIREDATE, SAL, DNO ) values(1001, 'Manoj' , 'SALESMAN', 1003, '2018-02-18', 600, 30) ;

Insert into EMP (EMPNO ,ENAME, JOB, MGR, HIREDATE, SAL, DNO ) values(1002 , 'Ashish', 'SALESMAN',1003 , '2013-02-18', 750, 30 );

Insert into EMP (EMPNO ,ENAME, JOB, MGR, HIREDATE, SAL, DNO ) values(1004, 'Rekha', 'ANALYST', 1006 , '2001-02-18', 3000, 10);

Insert into EMP (EMPNO ,ENAME, JOB, MGR, HIREDATE, SAL, DNO ) values(1005 , 'Sachin', 'ANALYST', 1006 , '2019-02-18', 3000, 10 );

Insert into EMP (EMPNO ,ENAME, JOB, MGR, HIREDATE, SAL, DNO ) 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');

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 usingIn (IN num1 int ,IN num2 int)

Begin

Declare sum,sub,mul,div int;

Set sum=num1+num2;

Set sub=num1-num2;

Set mul=num1\*num2;

Set div=num1/num2;

Select sum, sub, mul, div;

End;

//

Call procedure usingIn(12,2);

1. Write a Procedure to print the string in REVERSE order. Take the input using IN parameter. (Ex .Database , o/p :esabatad)

delimiter $$

create procedure Reverse\_String()

BEGIN

declare STR\_NAME varchar(50) ;

set STR\_NAME = "Database" ;

select REVERSE(STR\_NAME);

END $$

CALL Reverse\_String() ;

1. Write a Procedure to display top 5 employee based on highest salary and display employee number, employee name and salary.

delimiter //

create procedure Display\_top\_emp()

BEGIN

select Empno, Ename, sal from EMP order by sal desc limit 5;

END //

call Display\_top\_emp();

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

delimiter &&

create procedure Table\_dept()

BEGIN

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

select \* from dept;

END &&

call Table\_dept();

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

deptno vaue 60,Dname value should be ‘Education’, area value should be Pune.

delimiter &&

create procedure Table\_dept()

BEGIN

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

select \* from dept;

END &&

call Table\_dept();

1. 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 Square\_Cube(IN num int)

BEGIN

declare Square, Cubes int;

set Square = num \* num;

set Cubes = num \* num \* num ;

select num, Square, Cubes;

END ##

call Square\_Cube(12);

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

delimiter //

create procedure Declare\_integer(OUT Num1 int)

BEGIN

declare Num int;

set Num = 12;

select Num into Num1;

END //

call Declare\_integer(@Num1);

select @Num1;

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