Assignment

Sept23/ DBT/127

Database Technologies

Diploma in Advance Computing

September 2023

**Function**

|  |
| --- |
| 1. Pass DEPTNO to the function (named sumSalary) and calculate the sum of salary.(Use: EMP table) |
| drop function if exists sumsalary;  delimiter $  create function sumsalary(\_deptno int) returns INTEGER  deterministic  begin  declare z int;  select sum(sal) into z from emp where deptno=\_deptno;  return z;  end $  delimiter ; |
|  |
| 1. Create a new table called STUDENT\_NEW having following columns (studentID, namefirst, namelast, DOB, and emailID). Write a function names autoNumber to return auto generate studentID and return the new value (Use: STUDENT\_NEW table). |
| drop function if exists autonumber;  delimiter $  create function autonumber() returns INTEGER  deterministic  begin  declare z int;  select max(studentid)+1 into z from student\_new;  return z;  end $  delimiter ;      insert into student\_new values(1,"abhay","B","12-12-2000","abhay@123");  insert into student\_new values(autonumber(),"abhay","B","12-12-2000","abhay@123"); |
|  |
| 1. Write a function which will accept email-ID from the user, if the email-ID is present return his username and password or else `Return “Employee not exists”. (Use: LOGIN table) |
| drop function if exists email1;  delimiter $  create function email1(\_email varchar(20)) returns varchar(100)  deterministic  begin  declare flag bool;  declare s1 varchar(20);  declare s2 varchar(20);  declare x varchar(1000);  select true into flag from login where email=\_email;  if flag THEN  select username into s1 from login where email=\_email;  select pwd into s2 from login where email=\_email;  set x:=concat("username ",s1," password ",s2);  return x;  else  return "employee not exists";  end if;  end $  delimiter ;  ***OR***  drop function if exists email1;  delimiter $  create function email1(\_email varchar(20)) returns varchar(100)  deterministic  begin  declare x varchar(1000);  select email into @e from login;  if \_email=@e THEN  select concat("username ",username," password ",pwd)into @x from login where email=\_email;  else  select "employee not exists" into @x;  end if;  return @x;  end $  delimiter ; |
|  |
| 1. Write a function which will accept studentID from the user and calculate the sum of (10th, 12th, and BE) marks. |
| drop function if exists sid;  delimiter $  create function sid(\_studentid int) RETURNS varchar(50)  deterministic  begin  declare x int;  declare y int;  declare z int;  declare flag bool;  declare sum1 int;  declare a varchar(50);  set a := "Student does not exist";  select distinct true into flag from student\_qualifications where studentid=\_studentid;  if flag THEN  select marks into x from student\_qualifications where name='10' and studentid=\_studentid;  select marks into y from student\_qualifications where name='12' and studentid=\_studentid;  select marks into z from student\_qualifications where name='be' and studentid=\_studentid;    set sum1 := cast((ifnull(x,0)+ifnull(y,0)+ifnull(z,0)) as char(20));  return sum1;  else  return a;  end if;  END $  delimiter ;  **OR**  drop FUNCTION if exists calculate\_sum;  delimiter $  create FUNCTION calculate\_sum(\_sid int) returns int  deterministic  BEGIN  SELECT sum(marks) into @msum from student s join student\_qualifications sq on s.id=sq.studentid where s.id=\_sid;  return  @msum;  end $  delimiter ; |
| 1. Write a function that returns random OTP number of 6 digits.   drop FUNCTION if exists otp\_generator;  delimiter $  create FUNCTION otp\_generator() returns int  deterministic  BEGIN  SELECT FLOOR(rand()\*900000)+100000 INTO @otp;  return  @otp;  end $  delimiter ; |