Assignment

Sept23/ DBT/127

Database Technologies

Diploma in Advance Computing

September 2023

**Function**

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| 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 int  deterministic  BEGIN  declare sum1 int;  select sum(sal) into sum1 from emp where deptno=\_deptno;  return sum1 ;  END $  delimiter ;  OR  drop function if exists sumSalary;  delimiter $  create function sumSalary(\_deptno int) returns int  DETERMINISTIC  begin      declare sum1 int;      declare count1 int;      declare temp int;      declare i int;      set i:=0;      select count(\*) into count1 from emp where deptno=\_deptno group by deptno;      set sum1 := 0;      loop1:loop            if i<count1 then              select sal into temp from emp where deptno=\_deptno limit i,1;              set sum1 := sum1 + temp;          else              leave loop1;          end if;          set i:=i+1;      end loop loop1;      return sum1;  end $  delimiter ; |
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| 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 procedure if exists studnew;  delimiter $  create procedure studnew()  BEGIN  create table STUDENT\_NEW (studentID int, namefirst varchar(20), namelast varchar(20), DOB date, emailID varchar(20));  END $  delimiter ;  drop function if exists autoNumber;  delimiter $  create function autoNumber() returns int  deterministic  BEGIN  declare z int;  select max(studentID)+1 into z from student\_new;  return z;  END $  delimiter ; |
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| 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 login1;  delimiter $  create function login1(email\_id varchar(20)) returns varchar(20)  deterministic  BEGIN  set @z:="";  set @x:="";  set @y:="";  if email\_id in(select emailid from login) then      select username,password into @x,@y from LOGIN where email\_id=emailid;      set @z:=concat(@x,@y);  else      set @z:="Employees not exist";  end if;  return @z;  END $  delimiter ;  OR  drop function if exists login1;  delimiter $  create function login1(email\_id varchar(20)) returns varchar(20)  deterministic  BEGIN  declare u varchar(20);  set u:="";  set @z:="";  set @x:="";  set @y:="";  select emailid into u from login where emailid=email\_id;  if (email\_id=u) then      select username,password into @x,@y from LOGIN where email\_id=emailid;      set @z:=concat(@x,@y);  else      set @z:="Employees not exist";  end if;  return @z;  END $  delimiter ; |
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| 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 summarks;  delimiter $  create function summarks(studentid1 int)returns int  deterministic  BEGIN  declare z int;  select sum(marks) into z from student\_qualifications where studentid1=studentid group by studentid;  return z;  END $  delimiter ; |
| 1. Write a function that returns random OTP number of 6 digits.   drop function if exists otp;  delimiter $  create function otp() returns int  deterministic  begin  return round(rand()\*1000000);  end $  delimiter ; |