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 sumSalaty ;  delimiter $  create function sumSalaty(\_deptno int ) returns int  deterministic  begin  declare z int ;  select sum(sal) into z from emp where deptno=\_deptno;  return z;    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 function if exists autoNumber ;  delimiter $  create function autoNumber() returns int  deterministic  begin  declare z int ;  select max(id) + 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 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 emailid=\_email;  if flag THEN  select username into s1 from login where emailid=\_email;  select password into s2 from login where emailid=\_email;  set x:=concat("username : ",s1," password : ",s2);  return x;  else  return "employee not exists";  end if;  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 calculate\_sum ;  delimiter $  create function calculate\_sum(\_sid int) returns int  DETERMINISTIC  begin  declare x int;  set x :=0;    SELECT sum(marks) into x from student s join student\_qualifications sq on s.id=sq.studentid where s.id=\_sid;  return x;    end $  delimiter ; |
| 1. Write a function that returns random OTP number of 6 digits.   drop function if exists otp2 ;  delimiter $  create function opt2() returns int  deterministic  BEGIN  select FLOOR(rand()\*900000)+100000 INTO @x;  return @x;    end $  delimiter ; |