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  SET @x = 0;  SELECT SUM(sal) INTO @x FROM emp WHERE DEPTNO=\_deptno;  return @x;  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  SET @x = 0;  SELECT MAX(studentID)+1 INTO @x FROM student\_new;  return @x;  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 checkEmail;  delimiter $  CREATE FUNCTION checkEmail(email varchar(40))RETURNS varchar(40)  DETERMINISTIC  BEGIN  DECLARE n BOOLEAN;  SET @x:="";  SET n:=0;  SELECT true INTO n FROM LOGIN WHERE emailID=email;  IF n=true THEN  SELECT concat(username," ",password) INTO @x FROM LOGIN WHERE emailID=email;  ELSE  SET @x:="Employee not exists";  END IF;  return @x;  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(\_ID int) RETURNS int  DETERMINISTIC  BEGIN  SET @sum1:=0;  SELECT SUM(marks) INTO @sum1 FROM student\_qualifications WHERE studentID=\_ID AND name in("10","12","BE");  return @sum1;  END $  delimiter ; |
| 1. Write a function that returns random OTP number of 6 digits. |
| DROP FUNCTION IF EXISTS randNum;  delimiter $  CREATE FUNCTION randNum()returns varchar(10)  DETERMINISTIC  BEGIN  SET @x:="";  SELECT floor(rand()\*1000000) INTO @x;  return @x;  END $  delimiter ; |