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 \_sum int;  set \_sum := (select sum(sal) from emp where deptno = \_deptno);  return \_sum;  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(namefirst varchar(100), namelast varchar(100), \_DOB date, \_emailID varchar(200)) returns int  deterministic  BEGIN  declare x int;  insert into STUDENT\_NEW(namefirst, namelast, DOB, emailID) values(namefirst, namelast, \_DOB, \_emailID);  set x := (select MAX(studentID) 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 checkID;  delimiter $  create function checkID(\_emailID varchar(100)) returns varchar(500)  deterministic  BEGIN  declare flag bool;  declare \_user varchar(100);  declare passwrd varchar(100);  select true into flag from LOGIN where email\_ID = \_emailID;  if flag THEN  set \_user := (select username from LOGIN where email\_ID = \_emailID);  set passwrd := (select password from LOGIN where email\_ID = \_emailID);  return (concat(\_user," ",passwrd));  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 Tmarks;  delimiter $  create function Tmarks(\_ID int) returns int  deterministic  BEGIN  declare x int;  declare flag bool;  set x:=0;  select distinct true into flag from student\_qualifications where studentID=\_ID;    if flag then  select sum(marks) into x from student\_qualifications where studentId = \_ID and name in('BE', '10', '12');  end if;    return x;  end $  delimiter ; |
| 1. Write a function that returns random OTP number of 6 digits. |
| drop function if exists fun5;  delimiter $  create function fun5() returns int  deterministic  BEGIN  declare random int;  set random := (select round(rand()\*(1000000-100000+1)));  return random;  end $  delimiter ; |