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 int  deterministic  begin  declare sum\_sal int;    select sum(sal) into sum\_sal from emp where \_deptno=deptno;  return sum\_sal;  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 int  deterministic  begin    declare max\_id int;  declare flag bool;  select distinct true into flag from student\_new;  if flag then  select max(studentID)+1 into max\_id from student\_new;  return max\_id;  else  return 1;  end if;    end $  delimiter ; |
| 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 f3;  delimiter $  create function f3(\_emailID varchar(50)) returns varchar(30)  deterministic  BEGIN  declare info varchar(50);  declare flag bool;  select true into flag from login where \_emailID = emailID;    if flag then  set info := concat('Uname:',(select username from login where \_emailID=emailID),  ' pwd:',(select password from login where \_emailID=emailID));  return info;  else  return "Employee not exists!!";  end if;  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 f4;  delimiter $  create function f4(\_studentID int) returns int  deterministic  BEGIN  declare sumMarks int;    select sum(marks) from student\_qualifications where \_studentID=studentID group by studentID into sumMarks;  return sumMarks;  end $  delimiter ; |
| 1. Write a function that returns random OTP number of 6 digits. |
| drop function if exists f5;  delimiter $  create function f5() returns int  deterministic  begin    declare otp int;  set otp = floor(rand() \* 900000) + 100000;  return otp;  end $  delimiter ; |