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 sumOfSalary int;  declare flag bool;  select true into flag from emp where deptno = \_deptno limit 1;  if flag then  select sum(sal) into sumOfSalary from emp where deptno = \_deptno;  return (sumOfSalary);  else  return (0);  end if;    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 autonum int;  select (max(distinct id)+1) into autonum from student;  return autonum;  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 f1;  delimiter $  create function f1(\_emailid varchar(30)) returns varchar(20) deterministic  BEGIN  declare flag bool;  declare \_username, \_password varchar(30);  select true into flag from login where emailid = \_emailid;  select username,password into \_username, \_password from login where emailid = \_emailid;  if flag then  return (concat(\_username," ",\_password));  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 f1;  delimiter $  create function f1(\_studentid int) returns int deterministic  BEGIN  declare flag bool;  declare \_marks int;  select distinct true into flag from student\_qualifications where studentid = \_studentid;  if flag then  select sum(marks) into \_marks from student\_qualifications where name in (10,12,'be') and studentid = \_studentid;  return (\_marks);  else  return 0;  end if;  end $  delimiter ; |
| 1. Write a function that returns random OTP number of 6 digits.   drop function if exists f1;  delimiter $  create function f1() returns int deterministic  BEGIN  declare otp int;  set otp := round(rand()\*1000000 + 100000);  return otp;  end $  delimiter ; |