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;  select sum(sal) into z 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;  drop table if exists student\_new;  create table student\_new(studentID int default 0, namefirst varchar(20), namelast varchar(20), dob date, emailID varchar(50));  delimiter $  create function autoNumber() returns int  deterministic  begin  declare \_num int;  select max(studentID) + 1 from student\_new into \_num;  insert into student\_new(studentID) values(\_num);  return \_num;  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 acceptEmail;  delimiter $  create function acceptEmail(\_emailid varchar(20)) returns varchar(50)  deterministic  begin  declare \_username varchar(20) default '0';  declare \_pwd varchar(20) default '0';  if \_emailid in (select \_emailid from login) then  select Username from emp where \_email = emailid into \_username;  select Password from emp where \_email = emailid into \_pwd;  return concat(\_username,' ', \_pwd);  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 marksum;  delimiter $  create function marksum(student\_id int) returns int  deterministic  begin  declare numsum int default 0;  select sum(marks) into numsum from student\_qualifications where student\_id = studentID;  return numsum;  end $  delimiter ; |
| 1. Write a function that returns random OTP number of 6 digits. |
| drop function if exists otp;  delimiter $  create function otp() returns int  deterministic  begin  declare x int;  l1: loop  set x:= rand()\*1000000;  if x>99999 then  return x ;  leave l1;  end if;  end loop l1;  end $  delimiter ; |
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