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  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(\_fname varchar(20),\_lname varchar(20),\_dob DATE,\_emailid varchar(20)) returns int  deterministic  BEGIN  SELECT count(\*) into @cnt from STUDENT\_NEW ;  INSERT INTO STUDENT\_NEW VALUES(@cnt+1,\_fname,\_lname,\_dob,\_emailid);  RETURN @cnt+1;  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 accept\_email;  delimiter $  create FUNCTION accept\_email(\_emailid varchar(20)) returns varchar(30)  deterministic  BEGIN  set @ch := FALSE;  SELECT TRUE into @ch from login where email=\_emailid;  IF @ch THEN  SELECT CONCAT(username," , password=",pwd) INTO @x from login where email=\_emailid;  ELSE  SELECT "Employee not exists" into @x;  end if;  return @x ;  end $  delimiter ;   * select accept\_email('ritz@gmail.com') as 'info'; |
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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 calculate\_sum;  delimiter $  create FUNCTION calculate\_sum(\_sid int) returns int  deterministic  BEGIN  SELECT sum(marks) into @msum from student s join student\_qualifications sq on s.id=sq.studentid where s.id=\_sid;  return @msum;  end $  delimiter ; |
| 1. Write a function that returns random OTP number of 6 digits. |
| drop FUNCTION if exists otp\_generator;  delimiter $  create FUNCTION otp\_generator() returns int  deterministic  BEGIN  SELECT FLOOR(rand()\*900000)+100000 INTO @otp;  return @otp;  end $  delimiter ; |