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 sum1 int;  declare count1 int;  declare temp int;  select count(\*) into count1 from emp where deptno=\_deptno group by deptno;  set sum1 := 0;  loop1:loop  set count1 := count1 - 1;  if count1 >= 0 then  select sal into temp from emp where deptno=\_deptno limit count1,1;  set sum1 := sum1 + temp;  else  leave loop1;  end if;  end loop loop1;  return sum1;  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 maxId int;  declare rowCount bool;  select distinct true into rowCount from student\_new;  if rowCount then  select max(studentId)+1 into maxId from Student\_New;  else  set maxId := 1;  end if;  return maxId;  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 validate;  delimiter $  create function validate(\_emailId varchar(50)) returns varchar(50)  deterministic  begin  declare msg varchar(50);  declare \_username varchar(20);  declare \_password varchar(20);  declare result bool;  select true into result from login where emailId=\_emailId;  if result then  Select username into \_username from login where emailId=\_emailId;  Select password into \_password from login where emailId=\_emailId;  return concat("User name :- ",\_username," Password :- ",\_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 calculateMarks;  delimiter $  create function calculateMarks(\_studentID int) returns int  deterministic  begin  declare row1 int;  declare mark int;  declare totalMarks int;  declare c1 cursor for Select marks from student\_qualifications where studentid=\_studentid and name in(10,12,"BE");  select count(\*) into row1 from (select marks from student\_qualifications where studentid=\_studentid and name in(10,12,"BE")) t;  set totalMarks := 0;  open c1;  loop1:loop  if row1 > 0 then  fetch c1 into mark;  set totalMarks := totalMarks + mark;  set row1 := row1 - 1;  else  leave loop1;  end if;  end loop loop1;  close c1;  return totalMarks;  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  return round(rand()\*1000000);  end $  delimiter ; |