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 x int;  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(namefirst varchar(100), namelast varchar(100), \_DOB date, \_emailID varchar(200)) returns int  deterministic  BEGIN  declare x int;  insert into STUDENT\_NEW(namefirst, namelast, DOB, emailID) values(namefirst, namelast, \_DOB, \_emailID);  set x := (select MAX(studentID) from STUDENT\_NEW);  return x;  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(\_empNo int) returns varchar(200)  deterministic  BEGIN  declare flag bool;    select true into flag from emp where empno=\_empNo;  if flag THEN  /\*set @x:=concat("select user name,pwd from emp where empno=", \_empNo);  prepare z from @x;  execute z;\*/    return (select concat(`user name`,":",pwd) from emp where empno=\_empNo);  else  return "Employee not exists" ;  end if;  end $  delimiter ;  /\* select validate(6473) as r1; |
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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 sumMarks;  delimiter $  create function sumMarks(\_stuID int) returns int  deterministic  BEGIN  declare flag bool;  declare total int;      select sum(marks) into total from student\_qualifications where name in('10','12','BE') and studentID=\_stuID;  return (total);        end $  delimiter ; |
| 1. Write a function that returns random OTP number of 6 digits.   drop function if exists 6DigitOTP;  delimiter $  create function 6DigitOTP() returns bigint  deterministic  BEGIN  declare total bigint;  SELECT FLOOR(RAND() \* 899999 + 100000) into total ;  return total;  end $  delimiter ; |