Assignment

Sept23/ DBT/127

Database Technologies

Diploma in Advance Computing

September 2023

**Function**

| 1. Pass DEPTNO to the function (named sumSalary) and calculate the sum of salary.(Use: EMP table) |
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| drop function if exists fun1;  delimiter $  create function fun1(dep\_no int) returns int  DETERMINISTIC  begin  declare x int;  select sum(sal) into x from emp where deptno = dep\_no;  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 autoGenerate;  delimiter $  create function autoGenerate() returns int  DETERMINISTIC  begin  declare x int;  select id into x from student\_new order by id desc limit 1;  set x = x + 1;  insert into student\_new(id) values(x);  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 emailCheck;  delimiter $  create function emailCheck(email varchar(45)) returns varchar(45)  DETERMINISTIC  begin  declare x bool;  declare a,b varchar(45);  select true into x from login where email = emailid ;  select username,password into a,b from login where emailid = email;  if (x = true) then  return concat('Username:-',a," ",'Password:-',b);  else  return 'Employee does not exists!!';  end if;  end $  delimiter ;  drop function if exists validate;  delimiter $  create function validate(\_emailId varchar(20)) returns varchar(20)  deterministic  BEGIN  declare x bool;  declare y varchar(20);  declare z varchar(20);  select true into x from login where emailID=\_emailId;  if x=TRUE then  select username into y from login where emailID=\_emailId;  select password into z from login where emailID=\_emailId;  return concat(y," ",z);  ELSE  return "emailid not found";  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 marks;  delimiter $  create function marks(id int) returns int  DETERMINISTIC  BEGIN  declare x int;  select sum(marks) into x from student\_qualifications where studentid = id and name in (10,12,'BE');  return x;  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;  select ceil(rand()\*1000000) into x;  //select round(rand()\*100000) into x;  return(x);  end $  delimiter ; |