Assignment

Sept23/ DBT/127

Database Technologies

Diploma in Advance Computing

September 2023

**Function**

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| * 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  return (select sum(sal) from emp where deptno=\_deptno);  end $  delimiter ; |
|  |
| * 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 addNumber;  delimiter $  create function addNumber() returns int  deterministic  begin  declare x int;  set x:=(select count(studentID)+1 from student\_new);  return x;  end $  delimiter ; |
|  |
| * 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 check1;  delimiter $  create function check1(\_emailID varchar(50)) returns varchar(100)  deterministic  begin  declare flag bool;  select true into flag from login where emailID=\_emailID;  if flag then  return (select concat("Username:",(select username from login where emailID=\_emailID)," Password:",(select password from login where emailID=\_emailID)));  else  return( select "Employee not exists");  end if;  end $  delimiter ; |
|  |
| * Write a function which will accept studentID from the user and calculate the sum of (10th, 12th, and BE) marks. |
| drop function if exists sum1;  delimiter $  create function sum1( \_studentID int) returns int  deterministic  begin  return ( select sum(marks) from student\_qualifications where name in('10','12','BE') and studentid=\_studentID);    end $  delimiter ; |
| * 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;**

**set x:=(select rand()\*1000000);**

**return x;**

**end $**

**delimiter ;**