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() RETURNS int  deterministic  BEGIN  declare a int;  select MAX(studentID) into a from STUDENT\_NEW;  set a= a+1;  insert into student\_new (studentID) values(a);  return (a);  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 ;