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)

```
drop function if exists fun1;
delimiter $
create function fun1(_id int) returns int
deterministic
begin
   declare z int;
   select sum(salary) into z from emp where id=_id;
   return z;
end $
delimiter ;
```

2. 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 z int ;
    select max(studentid) + 1 into z from student_new;
    return z;
end $
delimiter ;
```

3. 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 fun1;
delimiter $
create function fun1(_emailid varchar(20)) returns varchar(100)
deterministic
begin

declare flag bool;
```

```
declare s1 varchar(20);
declare s2 varchar(20);
declare x varchar(1000);

select true into flag from login where emailid=_emailid;
if flag THEN
    select username into s1 from login where emailid=_emailid;
    select password into s2 from login where emailid=_emailid;
    set x:=concat("username : ",s1," password : ",s2);
    return x;
else
   return "employee not exists";
   end if;

 end $
 delimiter ;
```

4. Write a function which will accept studentID from the user and calculate the sum of (10^{th}, 12^{th}, and BE) marks.

```
drop function if exists fun1 ;
delimiter $
create function fun1(_sid int) returns int
DETERMINISTIC
begin
  declare x int;
  set x :=0;
  SELECT sum(marks) into x from student s join student_qualifications sq on
s.id=sq.studentid where s.id=_sid;
  return x;
end $
delimiter ;
```

5. Write a function that returns random OTP number of 6 digits.

```
drop function if exists fun1;
delimiter $
create function fun1() returns int
deterministic
BEGIN
    select FLOOR(rand()*900000)+100000 INTO @x;
    return @x;
end $
delimiter ;
```