Assignment

Sept23/ DBT/126.1
Database Technologies
Diploma in Advance Computing
September 2023

Procedure and Function

1. Write a procedure to accept a string and print all characters in separate lines.
   Input: - Ram
   Output: - R

          a

          m

```sql
drop procedure if EXISTS pro1;
delimiter $
create PROCEDURE pro1(name varchar(20))
BEGIN
DECLARE a INTEGER ;
set a =0;
lb:LOOP
    set a=a+1;

  SELECT substring(name,a,1);
   IF a > LENGTH(name)-1  THEN
        leave lb;
        end if ;
  end LOOP lb;
end $
delimiter ;
```

2. Write a procedure to accept a string and print every character separated by a comm sign.
   Input: - SALEEL
   Output: - S, A, L, E, E, L

3. Write a procedure to accept an alpha numeric string and separate number and characters of the string.
   Input: - SAL1234EEL
   Output: - SALEEL
         1234

4. Write a procedure to print all employee name and his job in following format.
   Input: - KING PRESIDENT
         SCOTT ANALYST
   Output: - K(ING) is PRESIDENT
         S(COTT) is ANALYST

```sql
drop procedure if EXISTS pro1;
delimiter $
create PROCEDURE pro1(name varchar(20), job VARCHAR(30))
BEGIN
```

```
DECLARE a INTEGER ;
set a =0;
set @x=" ";
  set a=a+1;
 SET @X = CONCAT(substring(name,1,1),"(",substring(name,2,LENGTH(name)),")" , " is " , job);
  SELECT @x;
  end $
delimiter ;
```

5. Write a procedure to print all upper and lower characters separately.
   Input: - AbCdEfG
   Output: - ACEG
           bdf

```
drop procedure if EXISTS pro1;
delimiter $
create PROCEDURE pro1(name varchar(20))
 BEGIN
 DECLARE a INT;

 set a=0;
   lb:LOOP
            SET a=a+1;
            set @x = substring(name,a,1);

   IF (ASCII(@x ) BETWEEN 65 AND 90)
    THEN
                    SELECT @x as "capital";
            IF a > LENGTH(name)-1  THEN
         leave lb;
               END IF;
    ELSE
                    set @y=@x;
    select @y as "small letters";
            IF a > LENGTH(name)-1  THEN
         leave lb;
               END IF;
    END IF ;

            end loop lb;

 end $
delimiter ;
```

6. Write a procedure to find the number of vowels, digits and white spaces

7. Write a procedure to remove all characters in a string except alphabets
   Input: - saleel.bagde123@gmail.com
   Output: - saleelbagdegmailcom

```
drop procedure if EXISTS pro1;
delimiter $
create PROCEDURE pro1(name varchar(200))
 BEGIN
 DECLARE a INT;
DECLARE countDigit int;
```

```
set countDigit=0;
  set a=0;
  set @x=" ";
  set @y=" ";
    lb:LOOP
                SET a=a+1;
                set @x = substring(name,a,1);

                  IF (@x  BETWEEN 'a' AND 'z' )
                  THEN
        set @y=  CONCAT(@y,@x);

      IF a > LENGTH(name)-1  THEN
            leave lb;
                  END IF;
                  end if;

                  end loop lb;
  SELECT @y;



  end $
delimiter ;
```

8. Write a procedure to insert 10 rows in a table having following columns (using loop).
   R (id int, message varchar(20)).
   Output: -
   id   message
   ---- -----------
   1   i is odd
   2   i is even
   3   i is odd
   4   i is even
   5   i is odd
   6   i is even
   7   i is odd
   8   i is even
   9   i is odd
   10   i is even

```
drop procedure if exists pro1;
delimiter $
create procedure pro1(id INTEGER, message1 varchar(200))
BEGIN
  declare a INTEGER;
  set a=0;
  lb:LOOP
  set a=a+1;
    if a%2=1 then
      select a,"It is odd";
    else
      select a, "It is even";
    end if;
    if a>9 THEN
      leave lb;
    end if;
```

```
        end loop lb;
    end $
    delimiter ;
```

9. Write a procedure to print five highest paid employees from the emp table using cursor.

10. Create the following table named (emp10, emp20, and emp30) which have the same structure of emp table.
    Write a procedure to split employee records from emp table according to their department numbers and insert those records in the appropriate table using cursor.

11. Write a procedure to display the department number and employee name in the following format.
    Output: -
    10 -> (AARAV, THOMAS, CLARK, KING, MILLER)
    20 -> (SHARMIN, BANDISH, SMITH, JONES, SCOTT, FRED, ADAMS, FORD)
    30 -> (GITA, ALLEN, WARD, MARTIN, BLAKE, TURNER, JAMES, HOFFMAN, GRASS)
    40 –> (No employee work in department 40…)
    50 -> (VRUSHALI, SANGITA, SUPRIYA)

12. Write a procedure to accept customer number and display all his order. (Use customers and orders table)

13. Write a procedure to convert numbers into word
    Input: - 45234
    Output: - Four Five Two Three Four

14. Write a procedure to find the sum of digits.
    Input: - 5675
    Output: - Twenty Three

15. Write a procedure to find how many "Sundays" are present between two given dates.
    Input: - Date1 and Date2
    Output: - 3 Sunday's

16. Writer a procedure which will accept date and weekday name from the user and print upcoming date on than weekday
    Input: - ('2023-04-26', 'Saturday')
    Output: - '2023-04-29'