Assignment

Sept23/ DBT/126.1

Database Technologies

Diploma in Advance Computing

September 2023

**Procedure and Function**

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| 1. Write a procedure to accept a string and print all characters in separate lines.   Input: - Ram  Output: - R  a  m |
| drop procedure if exists pro1;  delimiter $  drop table if exists String1;  create table String1 (character1 varchar(1));  create procedure pro1(name1 varchar(50))  begin  declare ch varchar(1);  declare ct int;  set ct := 1;  loop1:loop  if ct <= length(name1) then  set ch := substring(name1,ct,1);  set ct := ct + 1;  insert into String1 values(ch);  else  leave loop1;  end if;  end loop loop1;  select \* from String1;  end $  delimiter ; |
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| 1. 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 |
| drop procedure if exists pro2;  delimiter $  create procedure pro2(name1 varchar(50))  begin  declare ch varchar(50);  declare ct int;  set ct := 1;  set ch := substring(name1,ct,1);  set ct := ct + 1;  loop1:loop  if ct <= length(name1) then  set ch := concat(ch," , ",substring(name1,ct,1));  set ct := ct + 1;  else  leave loop1;  end if;  end loop loop1;  select ch as name;  end $  delimiter ; |
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| 1. Write a procedure to accept an alpha numeric string and separate number and characters of the string.   Input: - SAL1234EEL  Output: - SALEEL  1234 |
| drop procedure if exists pro3;  delimiter $  create procedure pro3(name1 varchar(50))  begin  declare String1 varchar(50);  declare number1 int;  declare ch varchar(1);  declare ct int ;  set number1 := 1;  set String1 := ' ';  set ct := 1;  loop1:loop  if (ct <= length(name1)) then  set ch := substring(name1,ct,1);  if (ch between 'A' and 'z') then  set String1 := concat(String1,substring(name1,ct,1));  elseif (ch between 0 and 9) then  set number1 := (number1 \* 10 )+ch;  end if;  set ct := ct + 1;  else  leave loop1;  end if;  end loop loop1;  select substring(String1,2);  select substring(number1,2);  end $  delimiter ; |
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| 1. 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 |
| drop procedure if exists pro4;  delimiter $  drop table if exists String2;  create table String2 (c1 varchar(100));  create procedure pro4()  begin  declare name1 varchar(10);  declare job1 varchar(20);  declare maxRow int;  declare ct int;  declare String1 varchar(100);  set ct := 1;  select max(r1) into maxRow from (select row\_number() over() r1 from emp) t1;  loop2:loop  if ct<=maxRow then  select ename into name1 from (select ename,row\_number() over() r1 from emp) t1 where r1=ct;  select job into job1 from (select job,row\_number() over() r1 from emp) t1 where r1=ct;  select concat(substring(name1,1,1),'(',substring(name1,2),') is ',job1) into String1;  insert into String2 values (String1);  set ct := ct + 1;  else  leave loop2;  end if;  end loop loop2;  select \* from string2;  end $  delimiter ; |
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| 1. Write a procedure to print all upper and lower characters separately.   Input: - AbCdEfG  Output: - ACEG  bdf |
| drop procedure if exists pro6;  delimiter $  create procedure pro6(name varchar(50))  BEGIN  declare count int;  declare char1 varchar(1);  declare upper1 varchar(100);  declare lower1 varchar(100);  declare res BOOLEAN;  set upper1="";  set lower1="";  set count=1;  lllp:LOOP  set count= count + 1;  if count <= length(name) THEN  set char1 = substring(name, count,1);  if char1 BETWEEN 'A' and 'Z' THEN  SET upper1 = concat(upper1,char1);  ELSEIF char1 BETWEEN 'a' and 'z' THEN  SET lower1 = concat(lower1,char1);  end if;  end if;  end LOOP lllp;  select upper1;  select lower1;  end $  delimiter ; |
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| 1. Write a procedure to find the number of vowels, digits and white spaces |
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| 1. Write a procedure to remove all characters in a string except alphabets   Input: - saleel.bagde123@gmail.com  Output: - saleelbagdegmailcom |
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| 1. 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 |
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| 1. Write a procedure to print five highest paid employees from the emp table using cursor. |
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| 1. 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. |
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| 1. 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) |
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| 1. Write a procedure to accept customer number and display all his order. (Use customers and orders table) |
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| 1. Write a procedure to convert numbers into word   Input: - 45234  Output: - Four Five Two Three Four |
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| 1. Write a procedure to find the sum of digits.   Input: - 5675  Output: - Twenty Three |
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| 1. Write a procedure to find how many “Sundays” are present between two given dates.   Input: - Date1 and Date2  Output: - 3 Sunday’s |
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| 1. 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’ |
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