Assignment

March23/ DBT/126.1

Database Technologies

Diploma in Advance Computing

March 2023

**Procedure**

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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 $  create PROCEDURE pro1(in name varchar(40))  BEGIN  declare x INTEGER;  set x =1;  lbl:LOOP  select SUBSTR(name,x,1);  set x = x + 1;  if x>LENGTH(name) THEN  leave lbl;  end if;  end LOOP lbl;  end $  delimiter ; |
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| 1. Write a procedure to accept a string and print every character separated by a comma sign.   Input: - SALEEL  Output: - S, A, L, E, E, L |
| drop procedure if exists pro2;  delimiter $  create PROCEDURE pro2(in name varchar(40))  BEGIN  declare b VARCHAR(40);  declare x INTEGER;  set x =1;  set b = "";  lbl:LOOP  set b = concat(b,SUBSTR(name,x,1),',');  set x = x + 1;  if x>LENGTH(name) THEN  leave lbl;  end if;  end LOOP lbl;  SELECT b;  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(in name varchar(40))  BEGIN  declare b VARCHAR(40);  declare x INTEGER;  declare c VARCHAR(40);  declare n VARCHAR(40);  set x =1;  set b = "";  set c = "";  set n = "";  lbl:LOOP  set b =SUBSTR(name,x,1);  if(ASCII(b)>47 and ASCII(b)<58) THEN  set n = concat(n,b);  ELSE  set c = concat(c,b);  end if;  set x = x + 1;  if x>LENGTH(name) THEN  leave lbl;  end if;  end LOOP lbl;  SELECT c;  SELECT n;  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 pro7;  delimiter $  create PROCEDURE pro7(in name varchar(40),in job varchar(40))  BEGIN  declare b VARCHAR(40);  declare x VARCHAR(40);  set b = "";  set x = "";  set b = concat(SUBSTR(name,1,1),'(',SUBSTR(name,2),')');  set x = concat(' is',' [',SUBSTR(job,1),']');  SELECT concat(b,x);  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 pro4;  delimiter $  create PROCEDURE pro4(in name varchar(40))  BEGIN  declare b VARCHAR(40);  declare x INTEGER;  declare UpperCase VARCHAR(40);  declare smallerCase VARCHAR(40);  set x =1;  set b = "";  set UpperCase = "";  set smallerCase = "";  lbl:LOOP  set b =SUBSTR(name,x,1);  if(ASCII(b)>96 and ASCII(b)<123) THEN  set smallerCase = concat(smallerCase,b);  end if;    if(ASCII(b)>64 and ASCII(b)<89) THEN  set UpperCase = concat(UpperCase,b);  end if;  set x = x + 1;  if x>LENGTH(name) THEN  leave lbl;  end if;  end LOOP lbl;  SELECT UpperCase;  SELECT smallerCase;  end $  delimiter ; |
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| 1. Write a procedure to find the number of vowels, digits and white spaces |
| drop procedure if exists pro5;  delimiter $  create PROCEDURE pro5(in name varchar(40))  BEGIN  declare b VARCHAR(40);  declare x INTEGER;  declare vowels int;  declare digit int;  declare whiteSpace int;  set x =1;  set b = "";  set vowels = 0;  set digit = 0;  set whiteSpace =0;  lbl:LOOP  set b =SUBSTR(name,x,1);  if(ASCII(b)=97 or ASCII(b)=101 or ASCII(b)=105 or ASCII(b)=111 or ASCII(b)=117) THEN  set vowels = vowels + 1;  end if;  if(ASCII(b)>47 and ASCII(b)<58) THEN  set digit = digit + 1;  end if;  if(ASCII(b)=32) THEN  set whiteSpace = whiteSpace + 1;  end if;  set x = x + 1;  if x>LENGTH(name) THEN  leave lbl;  end if;  end LOOP lbl;  SELECT vowels;  SELECT digit;  SELECT whiteSpace;  end $  delimiter ; |
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| 1. Write a procedure to remove all characters in a string except alphabets   Input: - saleel.bagde123@gmail.com  Output: - saleelbagdegmailcom |
| drop procedure if exists pro6;  delimiter $  create PROCEDURE pro6(in name varchar(40))  BEGIN  declare b VARCHAR(40);  declare x INTEGER;  declare alpha VARCHAR(40);    set x =1;  set b = "";  set alpha = "";  lbl:LOOP  set b =SUBSTR(name,x,1);  if(ASCII(b)>96 and ASCII(b)<123) THEN  set alpha = concat(alpha,b);  end if;    if(ASCII(b)>64 and ASCII(b)<89) THEN  set alpha = concat(alpha,b);  end if;  set x = x + 1;  if x>LENGTH(name) THEN  leave lbl;  end if;  end LOOP lbl;  SELECT alpha;    end $  delimiter ; |
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