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 $  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 ; |
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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 pro1;  delimiter $  create PROCEDURE pro1(name varchar(20))  BEGIN  DECLARE a INTEGER ;  set a =0;  set @x=" ";  lb:LOOP  set a=a+1;    SET @X = CONCAT(@x,substring(name,a,1),",");  IF a > LENGTH(name)-1 THEN  leave lb;  end if ;  end LOOP lb;  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 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  SET @y = @x;  SELECT @y;  IF a > LENGTH(name)-1 THEN  leave lb;  END IF;  END IF ;    end loop lb;    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 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 ; |
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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 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 ; |
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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 |
| 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);  SELECT @y;  IF a > LENGTH(name)-1 THEN  leave lb;  END IF;  end if;    end loop lb;      end $  delimiter ; |
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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. |
| drop procedure if EXISTS pro1;  delimiter $  create PROCEDURE pro1()  BEGIN  declare \_sal,\_id,\_empno int;    declare c1 cursor for select sal,empno from emp order by sal DESC;  declare exit handler for 1329 select 'eof';  set \_id=0;  open c1;  lb : LOOP  set \_id=\_id+1;  fetch c1 into \_sal,\_empno ;  select \_sal, \_empno;  if(\_id=5)then  leave lb;  end if;  end LOOP lb;    CLOSE c1;    end $  delimiter ; |
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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. |
| drop procedure if EXISTS pro1;  delimiter $  create PROCEDURE pro1()  BEGIN    declare \_ename,\_job varchar(20);  declare \_empno,\_deptno int;  declare c1 cursor for select empno,ename,job,deptno from emp;  /\* DECLARE c2 cursor for SELECT \* from emp where deptno =10 ;  DECLARE c3 cursor for select \* from emp where deptno =10; \*/  declare exit handler for 1329 select 'eof';  open c1;  lbl:LOOP  fetch c1 into \_empno,\_ename,\_job,\_deptno;  IF \_deptno=10  THEN  INSERT INTO EMP10(empno,ename,job,deptno) VALUES(\_empno,\_ename,\_job,\_deptno);  end if;  IF \_deptno=20  THEN  INSERT INTO EMP20(empno,ename,job,deptno) VALUES(\_empno,\_ename,\_job,\_deptno);  end if;  IF \_deptno=30  THEN  INSERT INTO EMP30(empno,ename,job,deptno) VALUES(\_empno,\_ename,\_job,\_deptno);  end if;    end loop lbl;  CLOSE c1;    end $  delimiter ; |
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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 |
| drop procedure if exists dates;  delimiter $  create procedure dates(d1 date,d2 date)  BEGIN  declare a int;  set @cnt=0;  set a=0;  set @dt=0;  lb:LOOP  set @dt=date(d1)+interval a day;  if(dayofweek(@dt)=1)then  set @cnt=@cnt+1;  end if;  set a=a+1;  if(datediff(@dt,d2)=0)THEN  leave lb;  end if;  end loop lb;  end $  delimiter ; |
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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’ 0 |
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