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HIGH LEVEL LANGUAGE EXTENSION WITH CURSORS

Program 1

Write a Cursor program using MySQL to retrieve the email-ids(build an email list) of employees from employeestable.

SOLUTION:

create table employees(id integer, Name varchar(100), email varchar(100)); insert into employees(id,Name, email) values(1, "Harry Potter", "pharry@warnerbros.com"); insert into employees(id, Name, email) values(2, "Clark Kent", "kclark@dccomics.com"); insert into employees(id, Name, email) values(3, "Tony Stark", "stony@marvel.com");

DELIMITER \$\$
CREATE PROCEDURE build_email_list (INOUT email_listvarchar(4000))BEGIN
DECLARE v_finished INTEGER DEFAULT 0;
DECLARE v_emailvarchar(100) DEFAULT "";

-- declare cursor for employee email

DECIAREemail_cursor CURSOR FOR SELECT email FROM employees;

-- declare NOT FOUND handler
DECLARE CONTINUE HANDLER FOR
NOT FOUND SET v_finished = 1;
OPEN
email_cursor;
get_email: LOOP
FETCH email_cursor INTO
v_email;IF v_finished = 1 THEN
LEAVE get_email;
END IF:

-- build email list

SET email_list = CONCAT(v_email,";",email_list); END LOOP get_email; CLOSEemail_cursor; - Calling the procedure and getting the email list

```
SET @email_list = "";
CALL build_email_list(@email_list);
SELECT @email_list;
```

Program:-1

```
mysql> DELIMITER $$
mysql> CREATE PROCEDURE build_email_list (INOUT email_list varchar(4000))
    -> BEGIN
    -> DECLARE v_finished INTEGER DEFAULT 0;
    -> DECLARE v_enail varchar(100) DEFAULT "";
-> DECLARE enail_cursor CURSOR FOR
    -> SELECT email FROM employees;
    -> DECLARE CONTINUE HANDLER FOR
-> NOT FOUND SET v_finished = 1;
    -> OPEN email_cursor;
    -> get_email:LOOP
    -> FETCH email_cursor INTO v_email;
    -> IF v_finished = 1 THEN
    -> LEAVE get_email;
    -> END IF;
-> SET email_list = CONCAT(v_email,";",email_list);
    -> END LOOP get_email;
-> CLOSE email_cursor;
    -> END $$
Query OK, 0 rows affected (0.00 sec)
Mysql> DELIMITER ;
mysql> SET @email_list = "";
Query OK, 8 rows affected (8.08 sec)
mysql> CALL build_enail_list(@enail_list);
Query OK, 0 rows affected, 1 warning (0.00 sec)
mysql> select @email_list;
 @email_list
  stony@marvel.com; kclark@decomics.com; pharry@warnerbros.com; |
 row in set (0.00 sec)
```

RESULT:

stony@marvel.com;kclark@dccomics.com;pharry@warnerbros.com;