SIII Utilika ubilis alisweis

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;

-- build email list

END IF:

SET email_list = CONCAT(v_email, ";",email_list); END LOOP get_email;

CLOSE email_cursor; END\$\$ DELIMITER;

-- 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_email varchar(100) DEFAULT ";
-> DECLARE email_cursor CURSOR FOR
-> SELECT email FROM employees;
-> DECLARE CONTINUE HANDLER FOR
-> NOT FOUND SET v_finished = 1;
-> OPEN email_cursor;
-> qet_email:cop
-> 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 S$
Query OK, 0 rows affected (0.00 sec)
mysql> DELIMITER;
mysql> DELIMITER;
query OK, 0 rows affected (0.00 sec)
mysql> CALL build_email_list(@email_list);
Query OK, 0 rows affected, 1 warning (0.00 sec)
mysql> CALL build_email_list;
| @email_list |
| @
```