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COURSE CODE : CSA0520
COURSE NAME : DATABASE MANAGEMENT FOR DATA ANALYTICS

Program 1

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

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

DECLAREemail_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;
CLOSE email_cursor;
END$$
DELIMITER ;
```

-- Calling the procedure and getting the email list

```
SET @email_list = "";
CALL
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T
@email
_list;
```

Program :-1

```
mysql> DELIMITER $$
mysql> CREATE PROCEDURE build_email_list (INOUT email_list varchar(4000))
-> BEGIN
-> DECLARE v_finished INTEGER DEFAULT 0;
-> DECLARE v_email varchar(100) DEFAULT "";
-> DECLARE email_cursor CURSOR FOR
-> SELECT email FROM employees;
-> DECLARE CONTINUE HANDLER FOR
-> NOT FOUND SET v_finished = 1;
-> OPEN email_cursor;
-> get_email:LOOP
-> FETCH email_cursor INTO v_email;
-> IF v_finished = 1 THEN
-> LEAVE get_email;
-> END IF;
-> SET email_list = CONCAT(v_email,";",email_list);
-> END LOOP get_email;
-> CLOSE email_cursor;
-> END $$
Query OK, 0 rows affected (0.00 sec)

mysql> DELIMITER ;
mysql> SET @email_list = "";
Query OK, 0 rows affected (0.00 sec)

mysql> CALL build_email_list(@email_list);
Query OK, 0 rows affected, 1 warning (0.00 sec)

mysql> select @email_list;
+-----+
| @email_list |
+-----+
| stony@marvel.com;kclark@deconics.com;pharry@warnerbros.com; |
+-----+
1 row in set (0.00 sec)
```