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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
build_e
mail_lis
t(@ema
il_list);
SELEC
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@decomics.com;pharry@warnerbros.com; |
+------------------------------------------------------------+
1 row in set (0.00 sec)
```