

Ex.No: 16

Date:

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 employees table.

```
mysql> create table employees(id int,
    -> name varchar(100), email varchar(100));
Query OK, 0 rows affected (0.03 sec)

mysql> insert into employees values(1, "Harry Potter", "pharry@warnerbors.com"),(2,
    -> "Clark Kent", "kclark@dccomics.com"),(3, "Tony Stark", "stony@marvel.com");
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> delimiter $$
mysql> create procedure build_mail_list(inout email_list varchar(4000))
    -> begin
    -> declare v_finished integer default 0;
    -> declare v_email varchar(100) default "";
    -> declare email_cursor cursor for
    -> select email from employees;
    -> declare continue handler for
    -> not found set v_finished=1;
    -> open email_cursor;
    -> get_email: loop
    -> fetch email_cursor into v_email;
    -> if v_finished=1 then
    -> leave get_email;
    -> end if;
    -> set email_list= concat(v_email,";",email_list);
    -> end loop get_email;
    -> close email_cursor;
    -> end$$
mysql> call build_mail_list(@email_list);
    -> select @email_list;
    -> exit $$
Query OK, 0 rows affected (0.01 sec)

+-----+
| @email_list |
+-----+
| stony@marvel.com;kclark@dccomics.com;pharry@warnerbors.com; |
+-----+
1 row in set (0.01 sec)
```