DBMSL Practical Exam

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Aim: Cursor Implementation

Problem Statement:

Write a PL/SQI block of code using cursor, that will merge the data available in newly created table n_emp with the data available in the table o_emp if data in the first table already exist in the second table then the data should be skkiped.

1. Creation of database, along with o emp and n emp tables. Also inserting data in o emp table.

```
MySQL 8.0 Command Line Client
                                                                                                                                                     П
mysql> use prac;
Database changed
mysql> create table o_emp(empid int, empname varchar(25), empsal int, deptid int, deptname varchar(25), primary key(empid)
Query OK, 0 rows affected (37.47 sec)
mysql> insert into o_emp values(1, 'Rutuja',10000,100,'IT'),(2,'Aashita',10000,100,'IT'),(3,'Sanskruti',30000,200,'Finance
'),(4,'Siddhi',25000,300,'Sales');
Query OK, 4 rows affected (4.38 sec)
Records: 4 Duplicates: 0 Warnings: 0
mysql> create table n_emp(empid int,empname varchar(25),empsal int,deptid int,deptname varchar(25), primary key(empid));
Query OK, 0 rows affected (14.11 sec)
mysql> select * from o_emp;
  empid | empname | empsal | deptid | deptname |
            Rutuja
                             10000
                                           100
            Aashita
                             10000
                                           100
                                                  IT
                                                  Finance
            Sanskruti
                             30000
                                           200
            Siddhi
                                           300 | Sales
4 rows in set (0.00 sec)
mysql> select * from n_emp;
Empty set (0.00 sec)
```

2. Creating procedure clone() for cursor implementation and calling procedure clone().

```
MySQL 8.0 Command Line Client
mysql> delimiter //
                                                                                                                                                                                                А
 nysql> create procedure clone()
      -> begin
       -> declare eid int;
       -> declare ename varchar(25);
       -> declare esal int;
       -> declare did int;
       -> declare dname varchar(25);
       -> declare diame varial(23);
-> declare exit_loop boolean;
-> declare c1 cursor for select * from o_emp;
-> declare continue handler for not found set exit_loop = true;
      -> fetch c1 into eid,ename,esal,did,dname;
-> if not exists(select * from n_emp where empid=eid) then
-> insert into n_emp values(eid,ename,esal,did,dname);
       -> end if;
-> if exit_loop then
      -> close c1;
-> leave m1;
-> end if;
-> end loop m1;
       -> end
 Query OK, 0 rows affected (6.45 sec)
 mysql> delimiter ;
 mysql> call clone();
 Query OK, 0 rows affected (3.15 sec)
```

3. Results after calling procedure clone().

```
nysql> select * from o_emp;
                     empsal | deptid | deptname |
 empid | empname
                       10000
         Rutuja
                                  100
         Aashita
                       10000
                                  100
         Sanskruti
                       30000
                                  200
                                        Finance
         Siddhi
                       25000
                                  300
                                        Sales
rows in set (0.00 sec)
mysql> select * from n_emp;
 empid | empname
                    | empsal | deptid | deptname |
                       10000
         Rutuja
                                  100
         Aashita
                       10000
         Sanskruti
                       30000
                                  200
         Siddhi
                       25000
                                  300
                                        Sales
 rows in set (0.00 sec)
```

4. Again calling procedure clone() to check duplication can be avoided or not.

```
ð
mysql> call clone();
Query OK, 0 rows affected (0.00 sec)
mysql> select * from n_emp;
  empid | empname
                       | empsal | deptid | deptname |
                          10000
           Rutuja
           Aashita
                          10000
                                       100
           Sanskruti
                          30000
                                       200
                                             Finance
           Siddhi
                          25000
                                       300
                                             Sales
      4
 rows in set (0.00 sec)
```