

## ASSIGNMENT-3

- **Objective:-** Use of Cursor using PL/SQL code block.
- **Problem Statement:-** Write a PL/SQL block of code for the following requirements:-
- **Schema:**
  - Emp(eid,ename,edesg,esal)
  - Emp\_bckup(eid,ename,edesg,esal)
  - The attributes of emp table must be inserted into the emp\_bckup table along with the 10 percent increase in th salary only in the backup table.
- **Author:-** Dewanshi Lokesh Gupta
- **Roll no:-** 60
- **PRN:-** UCS1F1060

### 1..Create database and it's tables:-

```
mysql> create table emp(eid int,ename varchar(20),edesg varchar(20),esal float(6,2));
Query OK, 0 rows affected, 1 warning (0.55 sec)

mysql> create table emp_bckup(eid int,ename varchar(20),edesg varchar(20),esal float(6,2));
Query OK, 0 rows affected, 1 warning (0.41 sec)

mysql> desc emp;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| eid   | int           | YES  |     | NULL    |       |
| ename | varchar(20)   | YES  |     | NULL    |       |
| edesg | varchar(20)   | YES  |     | NULL    |       |
| esal  | float(6,2)    | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> desc emp_bckup;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| eid   | int           | YES  |     | NULL    |       |
| ename | varchar(20)   | YES  |     | NULL    |       |
| edesg | varchar(20)   | YES  |     | NULL    |       |
| esal  | float(6,2)    | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

## ASSIGNMENT-3

---

### **2.Create the cursor on the backup table**

delimiter \$\$

create procedure XYZ()

begin

declare vfinished int default 0;

declare i int;

declare n varchar(20);

declare d varchar(20);

declare s float(6,2);

declare empcursor cursor for select \* from emp;

declare continue handler for NOT FOUND set vfinished=1;

open empcursor;

getdata:loop

fetch empcursor into i,n,d,s;

if vfinished=1 then

leave getdata;

end if;

SET s=s+s\*0.1;

update emp\_bkup set esal=s where eid=i;

insert into emp\_bkup values(i,n,d,s);

end loop getdata;

close empcursor;

end \$\$

delimiter ;

## ASSIGNMENT-3

```
mysql> use employee;
Database changed
mysql> delimiter $$
mysql> create procedure XYZ()
  -> begin
  -> declare vfinished int default 0;
  -> declare i int;
  -> declare n varchar(20);
  -> declare d varchar(20);
  -> declare s float(6,2);
  -> declare empcursor cursor for select * from emp;
  -> declare continue handler for NOT FOUND set vfinished=1;
  -> open empcursor;
  ->   getdata:loop
  ->     fetch empcursor into i,n,d,s;
  ->     if vfinished=1 then
  ->       leave getdata;
  ->     end if;
  -> SET s=s+s*0.1;
  -> update emp_bckup set esal=s where eid=i;
  -> insert into emp_bckup values(i,n,d,s);
  -> end loop getdata;
  -> close empcursor;
  -> end $$
Query OK, 0 rows affected, 1 warning (0.18 sec)
```

- The cursor is executed successfully.
- After the execution of cursor just insert the values in the emp table and then view both the table i.e. emp and emp\_bckup

```
mysql> select *from emp;
+-----+-----+-----+-----+
| eid | ename | edesg | esal |
+-----+-----+-----+-----+
| 101 | Dewa  | CEO   | 6000.10 |
| 102 | XYZ   | manager | 5000.10 |
| 103 | ABC   | asst  | 5000.00 |
| 104 | LMO   | asstp | 4000.00 |
| 105 | sam   | clerk | 3000.00 |
+-----+-----+-----+-----+
5 rows in set (0.02 sec)

mysql> select *from emp_bckup;
+-----+-----+-----+-----+
| eid | ename | edesg | esal |
+-----+-----+-----+-----+
| 101 | Dewa  | CEO   | 6600.11 |
| 102 | XYZ   | manager | 5500.11 |
| 103 | ABC   | asst  | 5500.00 |
| 104 | LMO   | asstp | 4400.00 |
| 105 | sam   | clerk | 3300.00 |
+-----+-----+-----+-----+
5 rows in set (0.02 sec)
```