**Advance Database Management System Lab**

**Experiment- 11**

**To understand the concepts of implicit and explicit cursor.**

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**Batch- 2**

--1. Using implicit cursor update the salary by an increase of 10% for all the records in EMPLOYEES table, and finally display how many records have been updated. If no records exist display the message “No Change”.

Create database LabExperiment11;

USE LabExperiment11;

CREATE TABLE EMPLOYEE( EMPID INTEGER PRIMARY KEY, ENAME VARCHAR(30), JOB VARCHAR(20), MGR INTEGER, HIREDATE DATE, SALARY INTEGER, COMM INTEGER, DEPTNO INTEGER );

insert into EMPLOYEE values(7499, 'ALLEN','SALESMAN', 7698,'20-FEB-81',1600,300,30);

insert into EMPLOYEE values(7521, 'WARD', 'SALESMAN',7698, '22-FEB-81', 1250,500,30);

insert into EMPLOYEE values(7566, 'JONES','MANAGER', 7839,'02-APR-81',2975,0,20);

insert into EMPLOYEE values(7654, 'MARTIN', 'SALESMAN',7698, '28-SEP-81',1250,1400,30);

insert into EMPLOYEE values(7698, 'BLAKE', 'MANAGER',7839,'01-MAY-81',2850,0,30);

insert into EMPLOYEE values(7782, 'CLARK', 'MANAGER',7839,'09-JUN-81',2450,0,10);

insert into EMPLOYEE values(7788, 'SCOTT', 'ANALYST',7566,'09-DEC-82',3000,0,20);

insert into EMPLOYEE values(7839, 'KING', 'PRESIDENT',7599,'17-NOV-81',5000,0,10);

insert into EMPLOYEE values(7844,'TURNER', 'SALESMAN', 7698,'08-SEP-81',1500,0,30);

CREATE TABLE EMPLOYEE\_AUDIT\_SAL ( EMPID INTEGER, ENAME VARCHAR(30), JOB VARCHAR(20), HIREDATE DATE, SALARY INTEGER, DEPTNO INTEGER );

DECLARE @emp\_id integer, @emp\_name VARCHAR(50), @emp\_job varchar(20),@emp\_date date, @emp\_salary integer,@emp\_dept integer, @row integer;

DECLARE UPDATE\_EM22 CURSOR FOR SELECT EMPID, ENAME, JOB, HIREDATE, SALARY, DEPTNO FROM EMPLOYEE

OPEN UPDATE\_EM22 FETCH NEXT FROM UPDATE\_EM22 INTO @emp\_id, @emp\_name, @emp\_job, @emp\_date, @emp\_salary,@emp\_dept

--set @emp\_salary=@emp\_salary+@emp\_salary\*0.1

WHILE @@FETCH\_STATUS = 0

BEGIN

--SELECT @emp\_id AS EMPID, @emp\_name AS ENAME, @emp\_job AS JOB, @emp\_date AS JOINING\_DATE, @emp\_salary AS SALARY,@emp\_dept AS DEPT

SET @emp\_salary=@emp\_salary+@emp\_salary\*0.1

insert into EMPLOYEE\_AUDIT\_SAL(EMPID,ENAME,JOB,HIREDATE,SALARY,DEPTNO) VALUES (@emp\_id, @emp\_name, @emp\_job, @emp\_date, @emp\_salary,@emp\_dept)

FETCH NEXT FROM UPDATE\_EM22 INTO @emp\_id, @emp\_name, @emp\_job, @emp\_date, @emp\_salary,@emp\_dept

--SET @emp\_salary=@emp\_salary+@emp\_salary\*0.1

--insert into EMPLOYEE\_AUDIT(EMPID,ENAME,JOB,HIREDATE,SALARY,DEPTNO) VALUES (@emp\_id, @emp\_name, @emp\_job, @emp\_date, @emp\_salary,@emp\_dept)

END

SET @row = (SELECT COUNT(\*) FROM EMPLOYEE\_AUDIT\_SAL)

if @row=0

print 'No Change'

else

select \* from EMPLOYEE\_AUDIT\_SAL

order by EMPID

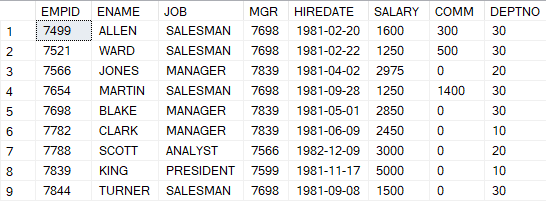
CLOSE UPDATE\_EM22

DEALLOCATE UPDATE\_EM22

SELECT \* FROM EMPLOYEE

ORDER BY EMPID

Output:



--2. Using explicit cursor fetch the employee name, employee\_id and salary of all the records from EMPLOYEES table.

DECLARE @employee\_id integer, @emp\_name VARCHAR(50), @emp\_salary integer;

DECLARE FETCH\_CURSOR CURSOR FOR

SELECT EMPID, ENAME, SALARY FROM EMPLOYEE

OPEN FETCH\_CURSOR

FETCH NEXT FROM FETCH\_CURSOR INTO @employee\_id, @emp\_name, @emp\_salary

WHILE @@FETCH\_STATUS = 0

BEGIN

select @employee\_id, @emp\_name, @emp\_salary

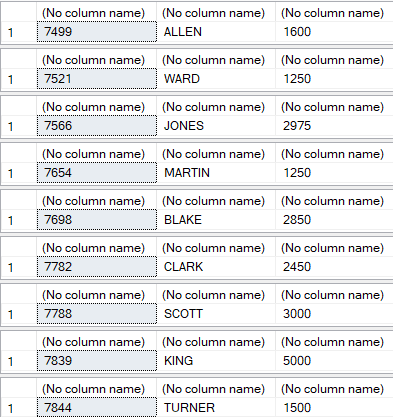
FETCH NEXT FROM FETCH\_CURSOR INTO @employee\_id, @emp\_name, @emp\_salary

END

CLOSE FETCH\_CURSOR

DEALLOCATE FETCH\_CURSOR

Output:



--3. Using explicit cursor Insert the records from EMPLOYEES table for the columns employee\_id, Last\_Name and salary for those records whose salary exceeds 2500 into a new table TEMP\_EMP

CREATE TABLE EMPLOYEE\_TEMP ( EMPID INTEGER, ENAME VARCHAR(30), SALARY INTEGER );

DECLARE @emp\_id integer, @emp\_name VARCHAR(50), @emp\_salary integer;

DECLARE INSERT\_CURSOR CURSOR FOR

SELECT EMPID, ENAME, SALARY FROM EMPLOYEE

OPEN INSERT\_CURSOR

FETCH NEXT FROM INSERT\_CURSOR INTO @emp\_id, @emp\_name, @emp\_salary

WHILE @@FETCH\_STATUS = 0

BEGIN

--select @emp\_id, @emp\_name, @emp\_salary

IF @emp\_salary>2500

insert into EMPLOYEE\_TEMP(EMPID,ENAME,SALARY) VALUES (@emp\_id, @emp\_name,@emp\_salary)

FETCH NEXT FROM INSERT\_CURSOR INTO @emp\_id, @emp\_name, @emp\_salary

END

CLOSE INSERT\_CURSOR

DEALLOCATE INSERT\_CURSOR

SELECT \* FROM EMPLOYEE\_TEMP

ORDER BY EMPID