Advance Database Management System Lab

Experiment- 11

To understand the concepts of implicit and explicit cursor.

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Batch- 2

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--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:

	EMPID	ENAME	JOB	MGR	HIREDATE	SALARY	COMM	DEPTNO
1	7499	ALLEN	SALESMAN	7698	1981-02-20	1600	300	30
2	7521	WARD	SALESMAN	7698	1981-02-22	1250	500	30
3	7566	JONES	MANAGER	7839	1981-04-02	2975	0	20
4	7654	MARTIN	SALESMAN	7698	1981-09-28	1250	1400	30
5	7698	BLAKE	MANAGER	7839	1981-05-01	2850	0	30
6	7782	CLARK	MANAGER	7839	1981-06-09	2450	0	10
7	7788	SCOTT	ANALYST	7566	1982-12-09	3000	0	20
8	7839	KING	PRESIDENT	7599	1981-11-17	5000	0	10
9	7844	TURNER	SALESMAN	7698	1981-09-08	1500	0	30

```
--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:

	(No column name)	(No column name)	(No column name)
1	7499	ALLEN	1600
1	7521	WARD	1250
1	7566	JONES	2975
1	7654	MARTIN	1250
1	7698	BLAKE	2850
1	7782	CLARK	2450
1	7788	SCOTT	3000
1	7839	KING	5000
1	7844	TURNER	1500

```
--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
```