



Lab sheet – 11 (L9+L10) Triggers

Exercise Questions

Table: EMP

Column Name	Data Type	Size	Description
Empno	NUMBER	4	Employee's Identification Number
Ename	VARCHAR2	30	Employee's Name
Job	VARCHAR2	15	Employee's Designation
Sal	NUMBER	8,2	Employee's Salary
DeptNo	NUMBER	2	Employee's Department id
Commission	NUMBER	7,2	Employee's Commission

```
SQL> SELECT*FROM EMP_MIA1119;
```

EMPNO	ENAME	JOB	SAL	DEPTNO
2001	DAZ	MANAGER	120000	30
40000				
2001	ANN	MANAGER	80000	20
50000				
2003	RAM	ASSISTANT	60000	40
70000				

- (a) Create a trigger, which verify that updated salary of employee must be greater than his/her previous salary

```

SQL> CREATE OR REPLACE TRIGGER CHECK21MIA1119
2  BEFORE UPDATE ON EMP_MIA1119
3  REFERENCE OLD AS OLD NEW AS NEW
4  FOR EACH ROW BEGIN
5  IF:NEW.SAL<OLD.SAL THEN
6  RAISE_APPLICATION_ERROR(-3007,'NEW SAL CANNOT BE LESS THAN O
7  END IF;
8  END;
9  /

```

```
SQL> SELECT*FROM EMP_MIA1119;
```

EMPNO	ENAME	JOB	SAL	DEPTNO
2001	DAZ	MANAGER	120000	30
2001	ANN	MANAGER	80000	20
2003	RAM	ASSISTANT	60000	40

```
SQL> UPDATE EMP_MIA1119 SET SAL=130000 WHERE ENAME='DAZ';
```

1 row updated.

```
SQL> SELECT*FROM EMP_MIA1119;
```

EMPNO	ENAME	JOB	SAL	DEPTNO
2001	DAZ	MANAGER	130000	30
2001	ANN	MANAGER	80000	20
2003	RAM	ASSISTANT	60000	40

- (b) Create a trigger, which verify that for the department 2, the number of employees should not exceed than 5.

```
SQL> CREATE OR REPLACE TRIGGER DCHECK21MIA1119
  2 BEFORE INSERT OR UPDATE ON EMP_MIA1119 FOR EACH ROW
  3 DECLARE
  4 VNUM NUMBER (3);
  5 BEGIN
  6 SELECT COUNT(*) INTO VNUM FROM EMP_MIA1119 WHERE DEPTNO=2;
  7 IF VNUM>5 THEN
  8 RAISE_ERROR(-0001,'CANNOT EXCEED 5');
  9 END IF;
 10 END;
 11 END;
 12 /
```

Trigger created.

SQL>