**Institute of Engineering & Management**

**Department of Computer Science & Engineering**

**Data-Base Management System Lab for 3rd year 6th semester 2019**

**Code: CS 691**

**Date:** 11/04/19

**WEEK-7**

**Problem Statement-1:** 1. Design a security level trigger which disallows any DML to be performed after 1600 hrs of a day.

**SQL :**

SQL> CREATE OR REPLACE TRIGGER permit

2 BEFORE INSERT OR UPDATE OR DELETE on emp\_copy

3 FOR EACH ROW

4 BEGIN

5 IF to\_number(to\_char(sysdate,'HH24'))>=16 THEN

6 raise\_application\_error(-20000,'No permission after 16:00!');

7 END IF;

8 END;

9 /

Trigger created.

SQL> delete from emp\_copy where empno in (2,3);

delete from emp\_copy where empno in (2,3)

\*

ERROR at line 1:

ORA-20000: No permission after 16:00!

ORA-06512: at "SCOTT.PERMIT", line 3

ORA-04088: error during execution of trigger 'SCOTT.PERMIT'

**Problem Statement-2:** Write a trigger which will not allow to delete records from emp\_bkup.

**SQL :**

SQL> CREATE OR REPLACE TRIGGER del\_deny

2 BEFORE DELETE ON rana\_emp

3 FOR EACH ROW

4 BEGIN

5 raise\_application\_error(-20001, 'Deletion not allowed!');

6 END;

7 /

Trigger created.

SQL> delete from rana\_emp;

delete from rana\_emp

\*

ERROR at line 1:

ORA-20001: Deletion not allowed!

ORA-06512: at "HR.DEL\_DENY", line 2

ORA-04088: error during execution of trigger 'HR.DEL\_DENY'

**Problem Statement-3:** Write a trigger which will create a primary key automatically into a table.

**SQL :**

SQL> create table empr(id number primary key, name varchar2(15));

Table created.

SQL> CREATE SEQUENCE empr\_seq;

Sequence created.

SQL> CREATE OR REPLACE TRIGGER empr\_pk

2 BEFORE INSERT ON empr

3 FOR EACH ROW

4 BEGIN

5 select empr\_seq.nextval into :new.id from dual;

6 END;

7 /

Trigger created.

SQL> insert into empr(name) values('&name');

Enter value for name: Ranajit

old 1: insert into empr(name) values('&name')

new 1: insert into empr(name) values('Ranajit')

1 row created.

SQL> select \* from empr;

ID NAME

---------- ---------------

1 Ranajit