

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

```