

School of Computer Science, UPES, Dehradun.

A

LABORATORY FILE

On

DATABASE MANAGEMENT SYSTEM (DBMS) LAB

B.TECH. -III Semester

Submitted by:

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Batch: 2

DBMS Lab B.Tech. III Sem.

EXEPERIMENT – 17

To understand the concepts of Trigger

Objective: Students will be able to implement the concept of trigger.

CREATE TRIGGER SALARY_VIOLATION BEFORE INSERT OR UPDATE OF SALARY, SUPERVISOR_SSN ON EMPLOYEE of experiment 3

```
-- Create DEPARTMENT table first (no foreign keys yet)
CREATE TABLE DEPARTMENT (
 Dname VARCHAR(15) NOT NULL UNIQUE,
 Dnumber INT NOT NULL PRIMARY KEY.
 Mgr ssn CHAR(9) NOT NULL,
 Mgr_start_date DATE
);
-- Create EMPLOYEE table next (references DEPARTMENT table)
CREATE TABLE EMPLOYEE (
 Fname VARCHAR(15) NOT NULL,
 Minit CHAR,
 Lname VARCHAR(15) NOT NULL,
 Ssn CHAR(9) NOT NULL PRIMARY KEY,
 Bdate DATE,
 Address VARCHAR(30),
 Sex CHAR,
 Salary DECIMAL(10, 2),
 Super_ssn CHAR(9),
 Dno INT NOT NULL,
 FOREIGN KEY (Super_ssn) REFERENCES EMPLOYEE(Ssn),
 FOREIGN KEY (Dno) REFERENCES DEPARTMENT(Dnumber)
);
```

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```
Dlocation VARCHAR(15) NOT NULL.
  PRIMARY KEY (Dnumber, Dlocation),
 FOREIGN KEY (Dnumber) REFERENCES DEPARTMENT(Dnumber)
);
-- Create PROJECT table (references DEPARTMENT table)
CREATE TABLE PROJECT (
  Pname VARCHAR(15) NOT NULL UNIQUE,
  Pnumber INT NOT NULL PRIMARY KEY,
  Plocation VARCHAR(15),
  Dnum INT NOT NULL,
 FOREIGN KEY (Dnum) REFERENCES DEPARTMENT(Dnumber)
);
-- Create WORKS ON table (references EMPLOYEE and PROJECT
tables)
CREATE TABLE WORKS ON (
  Essn CHAR(9) NOT NULL,
  Pno INT NOT NULL.
 Hours DECIMAL(3, 1) NOT NULL,
  PRIMARY KEY (Essn, Pno),
 FOREIGN KEY (Essn) REFERENCES EMPLOYEE(Ssn),
 FOREIGN KEY (Pno) REFERENCES PROJECT(Pnumber)
);
-- Create DEPENDENT table (references EMPLOYEE table)
CREATE TABLE DEPENDENT (
  Essn CHAR(9) NOT NULL,
  Dependent_name VARCHAR(15) NOT NULL,
  Sex CHAR,
  Bdate DATE,
  Relationship VARCHAR(8),
  PRIMARY KEY (Essn, Dependent name),
 FOREIGN KEY (Essn) REFERENCES EMPLOYEE(Ssn)
);
```