

Assignment trigger hints

```
CREATE OR REPLACE TRIGGER CourseRegistration
INSTEAD OF INSERT ON RegisteredView
REFERENCING NEW AS new
FOR EACH ROW
DECLARE
maxNum INT;
currentNum INT;
limited INT;
BEGIN
    SELECT COUNT(*) INTO limited FROM LimitedCourses WHERE code = :new.course;
    IF limited > 0 THEN --limited course
        SELECT nrStudent INTO maxNum FROM LimitedCourses WHERE code = :new.course;
        SELECT COUNT(*) INTO currentNum
        FROM Registered
        WHERE course = :new.course;
        IF currentNum < maxNum THEN -- still has a place
            INSERT INTO Registered ...
        ELSE -- the course is full
            INSERT INTO WaitingList ...--remember to process the priority
        END IF;
    ELSE -- normal course
        INSERT INTO Registered ...
    END IF;
END;
```

Assignment trigger hints

```
CREATE OR REPLACE TRIGGER CourseUnregistration
INSTEAD OF DELETE ON RegisteredView
REFERENCING OLD AS old
FOR EACH ROW
DECLARE
firstStuInQueue Students.ID%TYPE;
waitingNum INT;
BEGIN
    DELETE FROM Registered ...;
    SELECT COUNT(student) INTO waitingNum FROM WaitingList WHERE course = :old.course;
    IF waitingNum > 0 THEN -- there are waiting students
        SELECT student INTO firstStuInQueue
        FROM WaitingList WHERE ...//first priority
        INSERT INTO Registered ... --first student in the queue
        DELETE FROM WaitingList ... --first student in the queue
        --UPDATE FROM WaitingList ...--update the priority if necessary
    END IF;
END;
```