

## Trigger Exercises: Leave request management

The following relations are given (primary keys are underlined, optional attributes are denoted with \*):

PERSON (RegNumber, Job)  
SHIFT (RegNumber, Date, TCode)  
SHIFT-TYPE (TCode, StartTime, Duration)  
LEAVE-REQUEST(RCode, RegNumber, Date)  
NOTIFICATION(RegNumber, Date, RequestOutcome)

Write a trigger to manage one-day leave requests by people working in a hospital (insert into the LEAVE-REQUEST table).

A leave request is accepted if the person requesting it is not on duty in the requested date (SHIFT table). If instead the person is on duty, the request is accepted only if another person is available to fill the requester's shift. Otherwise, the request is declined. A person may substitute another person on a shift if they both have the same job and the substitute is not on duty in the same date.

The outcome of the request (accepted or declined) must be notified by means of an insert into the NOTIFICATION table.