

# Schema

**COMPANY**(domain, name, email, address, type, vision, specialization)

**COMPANYPHONE**(domain, phone)

COMPANYPHONE.domain references COMPANY.domain

**DEPARTMENT**(code, name, domain)

DEPARTMENT.domain references COMPANY.domain

**JOB**(jobID, code, title, shortDescription, detailedDescription, workingHours, minYearsOfExperience, salary, vacancies, deadline, HRUsername)

JOB.code references DEPARTMENT.code, JOB.HRusername references HREMPLOYEE.username

**INTERVIEW**(QUESTION, jobID, code, answer)

INTERVIEW.(jobID, code) references JOB

**USER**(username, password, email, birthdate, age, firstName, middleName, lastName, yearsOfExperience)

Where USER.age = current date - USER.birthdate

**USERPREVOUISJOBTITLE**(username, title)

USERPREVOUISJOBTITLE.username references USER.username

**APPLICANT**(username)

APPLICANT.username references USER.username

**APPLICATION**(ID, jobID, code, username, score, HRUsername, HRStatus)

APPLICATION.(jobID, code) references JOB, APPLICATION.username references APPLICANT.username, APPLICATION.HRusername references HREMPLOYEE.username

**ACCEPTED**(ID, username)

ACCEPTED.username references MANAGER.username

**REJECTED**(ID)

**STAFFMEMBER**(username, companyEmail, salary, dayOff, annualLeaves, **CODE**)

STAFFMEMBER.username references USER.username, STAFFMEMBER.code DEPARTMENT.code

**ATTENDANCE**(username, date, timeOfStart, timeOfLeave)

ATTENDANCE.username references STAFFMEMBER.username

**EMAIL**(ID, subject, body, timeStamp, usernameSender, usernameReceiver)

**REQUEST(username, ReqNum, requestDate, startDate, endDate, leaveDays, HRusername)**

REQUEST.username references STAFFMEMBER.username,  
REQUEST.HRusername references HREMPLOYEE.username,  
Where REQUEST.leaveDays = REQUEST.startDate - REQUEST.endDate

**BUSINESSTRIP(username, ReqNum, destination, purpose)**

BUSINESSTRIP.(username, ReqNum) references REQUEST

**LEAVE(username, ReqNum, type)**

LEAVE.(username, ReqNum) references REQUEST

**HREMPLOYEE(username)**

HREMPLOYEE.username references USER.username

**REQUESTHRREPLACE(username, ReqNum, usernameReplacing)**

REQUESTHRREPLACE.username references HREMPLOYEE.username,  
REQUESTHRREPLACE.ReqNum references REQUEST.ReqNum,  
REQUESTHRREPLACE.usernameReplacing references HREMPLOYEE.username

**ANNOUNCEMENT(ID, title, date, type, description, HRUsername)**

ANNOUNCEMENT.HRusername references HREMPLOYEE.username

**MANAGER(username, type)**

MANAGER.username references USER.username

**REQUESTMANGREPLACE(username, ReqNum, usernameReplacing)**

REQUESTMANGREPLACE.username references MANAGER.username,  
REQUESTMANGREPLACE.ReqNum references REQUEST.ReqNum,  
REQUESTMANGREPLACE.usernameReplacing references MANAGER.username

**MANAGERREQUESTREVIEW(username, ReqNum, reason, usernameMang)**

MANAGERREQUESTREVIEW.(username, ReNum) references REQUEST,  
MANAGERREQUESTREVIEW.usernameMang references REQUEST.ReqNum

**REGULAREMPLOYEE(username)**

**REQUESTREGEREPLACE(username, ReqNum, usernameReplacing)**

REQUESTREGEREPLACE.username references REGULAREMPLOYEE.username,  
REQUESTREGEREPLACE.ReqNum references REQUEST.ReqNum,  
REQUESTREGEREPLACE.usernameReplacing references REGULAREMPLOYEE.username

**PROJECT(name, startDate, endDate, username)**

PROJECT.username references MANAGER.username

**PROJECTASSIGNMENT(name, usernameRegE, usernameMang)**

**TASK(name, ProjectName, description, status, comments, deadline, usernameMang, usernameRegE)**

TASK.projectName references PROJECT.name, TASK.usernameMang references  
MANAGER.username, TASK.usernameRegE references REGULAREMPLOYEE.username