Schema

Foreign Keys will be represented by this Font & REDDISH COLOR

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

COMPANYPHONE(domain, **phone**)
   COMPANYPHONE.domain references COMPANY.domain

DEPARTMENT(**code,** domain, name)
   DEPARTMENT.domain references COMPANY.domain

JOB(**title**, code, domain, shortDescription, detailedDescription, workingHours, minYearsOfExperience, salary, vacancies, deadline, HrUsername)
   JOB.(code, domain) references DEPARTMENT,
   JOB.HrUsername references HREMPLOYEE.usernamef

QUESTION(**ID,** question, answer)

JOB_HAS_QUESTION(title, code, domain, question)
   Job_has_Question.(title, code, domain) references JOB,
   Job_has_Question.question references QUESTION.id

USER(**username,** password, email, birthdate, age, firstName, middleName, lastName, yearsOfExperience)
   Where USER.age = current date - USER.birthdate

USERPREVOUISJOBTITLE(**title,** username)
   USERPREVOUISJOBTITLE.username references USER.username

APPLICANT(username)
   APPLICANT.username references USER.username

APPLICATION(**ID**, score, managerStatus, HRStatus, title, code, domain, AppUsername, HrUsername, MangUsername)
   APPLICATION.(title, code, domain) references JOB,
   APPLICATION.AppUsername references APPLICANT.username,
   APPLICATION.HrUsername references HREMPLOYEE.username
   APPLICATION.MangUsername references MANAGER.username

STAFFMEMBER(<u>username,</u> companyEmail, salary, dayOff, annualLeaves, title, code, domain**)**
    STAFFMEMBER.username references USER.username,
    STAFFMEMBER.(title, code, domain) references JOB

ATTENDANCE(<u>**date**, username,</u> timeOfStart, timeOfLeave, duration, missing_hours**)**
    ATTENDANCE.username references STAFFMEMBER.username

EMAIL(<u>**ID,**</u> subject, body, timeStamp, reply_to**)**

SEND(<u>ID, usernameReceiver, usernameSender</u>**)**
    SEND.ID references EMAIL.ID
    SEND.usernameSender references STAFFMEMBER.username,
    SEND.usernameReceiver references STAFFMEMBER.username

REQUEST(<u>**StartDate**, username</u>, requestDate, endDate, leaveDays, HRStatus, ManagerStatus, reason, HrUsername, MangUsername**)**
    REQUEST.username references STAFFMEMBER.username,
    REQUEST.HrUsername references HREMPLOYEE.username,
    REQUEST.MangUsername references MANAGER.username,
    Where REQUEST.leaveDays = REQUEST.endDate - REQUEST.startDate

BUSINESSTRIP(<u>StartDate, username</u>, destination, purpose**)**
    BUSINESSTRIP.(StartDate, username) references REQUEST

LEAVE(<u>StartDate, username</u>, type**)**
    LEAVE.(StartDate, username) references REQUEST

HREMPLOYEE(<u>username</u>**)**
    HREMPLOYEE.username references STAFFMEMBER.username

REQUESTHRREPLACE(<u>StartDate, username, usernameReplacing</u>**)**
    REQUESTHRREPLACE.(StartDate, username) references REQUEST,
    REQUESTHRREPLACE.usernameReplacing references HREMPLOYEE.username

ANNOUNCEMENT(<u>**ID,**</u> title, date, type, description, HrUsername**)**
    ANNOUNCEMENT.HrUsername references HREMPLOYEE.username

MANAGER(<u>username</u>, type)
MANAGER.username references STAFFMEMBER.username

REQUESTMANGREPLACE(<u>StartDate, username, usernameReplacing</u>)
REQUESTMANGREPLACE.(StartDate, username) references REQUEST,
REQUESTMANGREPLACE.usernameReplacing references MANAGER.username

REGULAREMPLOYEE(<u>username</u>)
REGULAREMPLOYEE.username references STAFFMEMBER.username

REQUESTREGEREPLACE(<u>StartDate, username, usernameReplacing</u>)
REQUESTREGEREPLACE.(StartDate, username) references REQUEST,
REQUESTREGEREPLACE.usernameReplacing references REGULAREMPLOYEE.username

PROJECT(**name**, Domain, startDate, endDate, MangDefineUsername)
PROJECT.Domain references COMPANY.Domain
PROJECT.MangDefineUsername references MANAGER.username

PROJECTASSIGNMENT(<u>projName, Domain, RegEUsername, MangUsername</u>)
PROJECTASSIGNMENT.(projName, Domain) references PROJECT,
PROJECTASSIGNMENT.MangUsername references MANAGER.username,
PROJECTASSIGNMENT.RegEUsername references REGULAREMPLOYEE.username

TASK(**name**, <u>projectName</u>, Domain, description, status, deadline, RegEUsername, MangUsername)
TASK.(projectName, Domain) references PROJECT,
TASK.MangUsername references MANAGER.username,
TASK.RegEUsername references REGULAREMPLOYEE.username

COMMENT(<u>ID, task, projectName, Domain,</u> **content,** username)
COMMENT.(task, projectName, Domain) references TASK,
COMMENT.username references STAFFMEMBER.username