Schema

COMPANY(<u>**domain**</u>**, name, email, address, type, vision, specialization)**

COMPANYPHONE(<u>DOMAIN</u>**,** <u>**phone**</u>**)**
    COMPANYPHONE.domain references COMPANY.domain

DEPARTMENT(<u>**code**</u>**, name,** DOMAIN**)**
    DEPARTMENT.domain references COMPANY.domain

JOB(<u>**jobID**</u>**,** CODE**, title, shortDescription, detailedDescription, workingHours, minYearsOfExperience, salary, vacancies, deadline,** HRUSERNAME**)**
    JOB.code references DEPARTMENT.code, JOB.HRusername references HREMPLOYEE.username

INTERVIEW(<u>**QUESTION**</u>**,** <u>JOBID</u>**,** <u>CODE</u>**, answer)**
    INTERVIEW.(jobID, code) references JOB

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

USERPREVOUISJOBTITLE(<u>USERNAME</u>**,** <u>**title**</u>**)**
    USERPREVOUISJOBTITLE.username references USER.username

APPLICANT(<u>USERNAME</u>**)**
    APPLICANT.username references USER.username

APPLICATION(<u>**ID**</u>**,** <u>JOBID</u>**,** <u>CODE</u>**,** <u>USERNAME</u>**, score,** HRUSERNAME**, HRStatus)**
    APPLICATION.(jobID, code) references JOB, APPLICATION.username references APPLICANT.username, APPLICATION.HRusername references HREMPLOYEE.username

===> APPLY(<u>USERNAME</u>**,** <u>JOBID</u>**,** <u>ID</u>**)**
    APPLY.username references USER.username, APPLY.ID references APPLICATION.ID, APPLY.jobID references JOB.jobID

ACCEPTED(<u>**ID**</u>**,** <u>USERNAME</u>**)**
    ACCEPTED.username references MANAGER.username

REJECTED(<u>**ID**</u>**)**

STAFFMEMBER(<u>USERNAME</u>**, companyEmail, salary, dayOff, annualLeaves,** CODE**)**
    STAFFMEMBER.username references USER.username, STAFFMEMBER.code DEPARTMENT.code

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

EMAIL(<u>**ID**</u>**, sender, recipient, subject, body, timeStamp,** USERNAMESENDER, USERNAMERECEIVER**)**

SEND(<u>USERNAMESENDER</u>**,** <u>ID</u>**,** <u>USERNAMERECEIVER</u>**)**
    SEND.usernamesender references STAFFMEMBER.username, SEND.ID references EMAIL.ID, SEND.usernamereceiver references STAFFMEMBER.username

REQUEST(<u>username, </u>**ReqNum**, requestDate, startDate, endDate, leaveDays, HRUSERNAME)
    REQUEST.username references STAFFMEMBER.username,
    REQUEST.HRusername references HREMPLOYEE.username,
    Where REQUEST.leaveDays = REQUEST.startDate - REQUEST.endDate

BusinessTrip(<u>username, ReqNum</u>, destination, purpose)
    BUSINESSTRIP.(username, ReqNum) references REQUEST

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

HREmployee(<u>username</u>)
    HREMPLOYEE.username references USER.username

RequestHRReplace(<u>username, ReqNum, usernameReplacing</u>)
    REQUESTHRREPLACE.username references HREMPLOYEE.username,
REQUESTHRREPLACE.ReqNum references REQUEST.ReqNum,
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 USER.username

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

ManagerRequestReview(<u>username, ReqNum</u>, reason, USERNAMEMANG)
    MANAGERREQUESTREVIEW.(username, ReNum) references REQUEST,
MANAGERREQUESTREVIEW.usernameMang references REQUEST.ReqNum

RegularEmployee(<u>username</u>)

RequestRegEReplace(<u>username, ReqNum, usernameReplacing</u>)
    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