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

*===>* **Apply(**username, jobID, ID**)**

APPLY.username references USER.username, APPLY.ID references APPLICATION.ID, APPLY.jobID references JOB.jobID

**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**, sender, recipient, subject, body, timeStamp, usernameSender, usernameReceiver**)**

**Send(**usernameSender, ID, usernameReceiver**)**

SEND.usernamesender references STAFFMEMBER.username, SEND.ID references EMAIL.ID, SEND.usernamereceiver references STAFFMEMBER.username

**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