Schema

Foreign keys will be represented by this reddish color.

**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, , HRusername title, shortDescription, detailedDescription, workingHours, minYearsOfExperience, salary, vacancies, deadline**)**

JOB.code references DEPARTMENT.code,

JOB.HRusername references HREMPLOYEE.username

**Interview(question**, jobID answer**)**

INTERVIEW. jobID references JOB.jobID

**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,Appusername, Hrusername,score, HRStatus**)**

APPLICATION.jobID references JOB.jobid,

APPLICATION.Appusername references APPLICANT.username

APPLICATION.Hrusername references HREMPLOYEE.username

**Accepted(**ID, jobID,Appsername ,Manusername,managerstatus)

ACCEPTED.Manusername references MANAGER.username

ACCEPTED.(ID,jobID,Appusername) references Application

Constraint :Accepted is an attribute defined relation:APPLICATION.HRStatus

**Rejected(**ID, jobID,Appsername**)**

ACCEPTED.(ID,jobID,Appusername) references Application

Constraint :Rejected is an attribute defined relation:APPLICATION.HRStatus

**StaffMember(**username, code companyEmail, salary, dayOff, annualLeaves**)**

STAFFMEMBER.username references USER.username,

STAFFMEMBER.code DEPARTMENT.code

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

ATTENDANCE.username references STAFFMEMBER.username

**Email(ID**, subject, body, timeStamp**)**

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

SEND.usernamesender references STAFFMEMBER.username,

SEND.ID references EMAIL.ID,

SEND.usernamereceiver references STAFFMEMBER.username

**Request(ReqNum,** username, HRusername requestDate, startDate, endDate, leaveDays,Hrstatus, ManStatus**)**

REQUEST.username references STAFFMEMBER.username,

REQUEST.HRusername references HREMPLOYEE.username,

Where REQUEST.leaveDays = REQUEST.startDate - REQUEST.endDate

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

MANAGERREQUESTREVIEW.( ReqNum,username) references REQUEST,

MANAGERREQUESTREVIEW.usernameMang references MANAGER.username

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

BUSINESSTRIP.( ReqNum, username,) references REQUEST

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

LEAVE.( ReqNum,username) references REQUEST

**HREmployee(**username**)**

HREMPLOYEE.username references STAFFMEMBER.username

**RequestHRReplace(**ReqNum, username, usernameReplacing**)**

REQUESTHRREPLACE.(ReqNum,username) references REQUEST,

REQUESTHRREPLACE.usernameReplacing references HREMPLOYEE.username

**Announcement(ID**, title, date, type, description, username**)**

ANNOUNCEMENT.username references HREMPLOYEE.username

**Manager(**username, type**)**

MANAGER.username references STAFFMEMBER.username

**RequestMangReplace(**ReqNum, username, usernameReplacing**)**

REQUESTMANGREPLACE.(ReqNum,username) references REQUEST,

REQUESTMANGREPLACE.usernameReplacing references MANAGER.username

**RegularEmployee(**username**)**

RegularEmployee.username references STAFFMEMBER.username

**RequestRegEReplace(**ReqNum, username, usernameReplacing**)**

REQUESTREGEREPLACE.(ReqNum,username) references REQUEST

REQUESTREGEREPLACE.usernameReplacing references REGULAREMPLOYEE.username

**Project(name**, Mandefineusername, startDate, endDate**)**

PROJECT. Mandefineusername references MANAGER.username

**ProjectAssignment(**projName, usernameRegE, usernameMang**)**

ProjectAssignment.projName references PROJECT.name,

ProjectAssignmen.usernameRegE references REGULAREMPLOYEE.username,

ProjectAssignmen.usernameMang references MANAGER.username

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

TASK.projectName references PROJECT.name,

TASK.usernameMang references MANAGER.username,

TASK.usernameRegE references REGULAREMPLOYEE.username

**COMMENT**(**id**,name, ProjectName ,username,content)

COMMENT.(name,ProjectName) references Task

COMMENT.username references STAFFMEMBER.USERNAME