Schema

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 (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, username, HRUsername, score, HRStatus)

APPLICATION.jobID references JOB.jobID,

APPLICATION.username references APPLICANT.username.

APPLICATION.HRusername references HREMPLOYEE.username

ACCEPTED (ID, jobID, username, usernameMang, managerStatus)

ACCEPTED usernameMang references MANAGER username

Constraint: ACCEPTED is an Attribute defined relation <= APPLICATION.HRStatus

REJECTED (<u>ID</u>, <u>iobID</u>, <u>username</u>)
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, usernameSender, usernameReceiver, subject, body, timeStamp)

Email.(usernameSender, usernameReceiver) references STAFFMEMBER.username

REQUEST(<u>username</u>, **ReqNum**, HRusername, requestDate, startDate, endDate, leaveDays)

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

BUSINESSTRIP (<u>username</u>, ReqNum, destination, purpose)

BUSINESSTRIP.(username, RegNum) references REQUEST

LEAVE (<u>username</u>, 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, HRUsername, title, date, type, description)

ANNOUNCEMENT.HRusername references HREMPLOYEE.username

MANAGER (<u>username</u>, 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, usernameMang, reason)

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

REGULAREMPLOYEE(<u>username</u>)

REGULAREMPLOYEE.username references USER.username

REQUESTREGEREPLACE (username, ReqNum, usernameReplacing)

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

PROJECT (name, usernameMang, startDate, endDate)

PROJECT.usernameMang references MANAGER.username

PROJECTASSIGNMENT (name, usernameRegE, usernameMang)

PROJECTASSIGNMENT.name references PROJECT.name,
PROJECTASSIGNMENT.usernameRegE references REGULAREMPLOYEE.username,
PROJECTASSIGNMENT.usernameMang references MANAGER.username,

TASK(<u>name</u>, <u>ProjectName</u>, <u>usernameMang</u>, <u>usernameRegE</u>, description, status, comments, deadline)

 $TASK.project Name\ references\ PROJECT.name,$

TASK.usernameMang references MANAGER.username,

TASK.usernameRegE references REGULAREMPLOYEE.username

TASKCOMMENT(name, ProjectName, comment)

TASKCOMMENT.(name, ProjectName) references TASK