

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(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, AppUsername, MangUsername, managerStatus)

ACCEPTED.MangUsername references MANAGER.username,

ACCEPTED.(ID, jobID, AppUsername) references APPLICATION,

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

REJECTED(ID, jobID, AppUsername)

REJECTED.(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.ID references EMAIL.ID
SEND.usernameSender references STAFFMEMBER.username,
SEND.usernameReceiver references STAFFMEMBER.username

REQUEST(ReqNum, username, HrUsername, requestDate, startDate, endDate,
leaveDays, HRStatus, managerStatus)
REQUEST.username references STAFFMEMBER.username,
REQUEST.HrUsername references HREMPLOYEE.username,
Where REQUEST.leaveDays = REQUEST.startDate - REQUEST.endDate

MANAGERREQUESTREVIEW(ReqNum, username, MangUsername, reason)
MANAGERREQUESTREVIEW.(ReNum, username) references REQUEST,
MANAGERREQUESTREVIEW.MangUsername 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, HrUsername, title, date, type, description)
ANNOUNCEMENT.HrUsername 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.(ReNum, username) references REQUEST,
REQUESTREGEREPLACE.usernameReplacing references REGULAREMPLOYEE.username

PROJECT(name, MangDefineUsername, startDate, endDate)

PROJECT.MangDefineUsername references MANAGER.username

PROJECTASSIGNMENT(projName, RegEUsername, MangUsername)

PROJECTASSIGNMENT.projName references PROJECT.name,
PROJECTASSIGNMENT.MangUsername references MANAGER.username,
PROJECTASSIGNMENT.RegEUsername references REGULAREMPLOYEE.username

TASK(name, projectName, RegEUsername, MangUsername, description, status, comments, deadline)

TASK.projectName references PROJECT.name,
TASK.MangUsername references MANAGER.username,
TASK.RegEUsername references REGULAREMPLOYEE.username

COMMENT(ID, name, projectName, username, content)

COMMENT.(name, projectName) references TASK,
COMMENT.username references STAFFMEMBER.username