Relational Schema

- Company(email, name, address, domain, type, vision, specialization)

- Company_Phone(company, phone)
  Company_Phone.company references Company

- Department(code, company, name)
  Department.company references Company

- Job(title, department, company, short_description, detailed_description, min_experience, salary, deadline, no_of_vacancies, working_hours)
  Job.(department, company) references Department

- Question(number, question, answer)

- Job_has_Question(job, department, company, question)
  Job_has_Question.(job, department, company) references Job
  Job_has_Question.question references Question

- User(username, password, personal_email, birth_date, years_of_experience, first_name, middle_name, last_name, age)
  Where User.age = current_date - User.birth_date

- User_Job(user, job)
  User_Job.user references User

- Job_Seeker(username)
  Job_Seeker.username references User

- Staff_Member(username, annual_leaves, company_email, day_off, salary, job, department, company)
  Staff_Member.username references User
  Staff_Member.(job, department, company) references Job

- Job_Seeker_apply_Job(job, department, company, job_seeker, hr_response, manager_response, score)
  Job_Seeker_apply_Job.(job, department, company) references Job
  Job_Seeker_apply_Job.job_seeker references Job_Seeker

- Attendance_Record(<u>date, staff</u>, start_time, end_time)

  Attendance_Record.staff references Staff_Member

- Email(<u>serial_number</u>, subject, date, body)

- Staff_send_Email_Staff(<u>email_number, recipient</u>, sender)

  Staff_send_Email_Staff.email_number references Email
  Staff_send_Email_Staff.recipient references Staff_Member
  Staff_send_Email_Staff.sender references Staff_Member

- HR_Employee(<u>username</u>)

  HR_Employee.username references Staff_Member

- Regular_Employee(<u>username</u>)

  Regular_Employee.username references Staff_Member

- Manager(<u>username</u>, type)

  Manager.username references Staff_Member

- Announcement(<u>date, title, hr_employee</u>, type, description)

  Announcement.hr_employee references HR_Employee

- Request(<u>start_date, applicant</u>, end_date, request_date, total_days, hr_employee, hr_response, manager, manager_response, manager_reason)
  Request.applicant references Staff_Member
  Request.hr_employee references HR_Employee
  Request.manager references Manager
  Where Request.total_days = Request.end_date - Request.start_date

- Leave_Request(<u>start_date, applicant</u>, type)

  Leave_Request.(start_date, applicant) references Request

- Business_Trip_Request(<u>start_date, applicant</u>, destination, purpose)

  Business_Trip_Request.(start_date, applicant) references Request
- HR_Employee_apply_replace_Request(<u>start_date, applicant</u>, hr_employee, replacement)

  HR_Employee_apply_replace_Request.(start_date, applicant) references Request
  HR_Employee_apply_replace_Request.hr_employee references HR_Employee
  HR_Employee_apply_replace_Request.replacement references HR_Employee

- Regular_Employee_apply_replace_Request(<u>start_date, applicant</u>, reg_employee, replacement)

  Regular_Employee_apply_replace_Request.(start_date, applicant) references Request
  Regular_Employee_apply_replace_Request.reg_employee references Regular_Employee
  Regular_Employee_apply_replace_Request.replacement references Regular_Employee

- Manager_apply_replace_Request(<u>start_date, applicant</u>, manager, replacement)

  Manager_apply_replace_Request.(start_date, applicant) references Request
  Manager_apply_replace_Request.manager references Manager
  Manager_apply_replace_Request.replacement references Manager

- Project(<u>name, company</u>, start_date, end_date, manager)

  Project.company references Company
  Project.manager references Manager

- Manager_assign_Regular_Employee_Project(<u>project_name, company, regular_employee</u>, manager)

  Manager_assign_Regular_Employee_Project.(project_name, company) references Project
  Manager_assign_Regular_Employee_Project.regular_employee references Regular_Employee
  Manager_assign_Regular_Employee_Project.manager references Manager

- Task(<u>name, project, company</u>, deadline, status, description, regular_employee, manager)

  Task.(project, company) references Project
  Task.regular_employee references Regular_Employee
  Task.manager references Manager

- Task_Comment(<u>task_name, project, company, comment</u>)

  Task_Comment.(task_name, project, company) references Task