

-- بسم الله الرحمن الرحيم --

Database Schema

```
Employee (  
    employee_id,  
    first_name, last_name,  
    national_id,  
    email,  
    gender,  
    salary,  
    address,  
    official_day_off,  
    emergency_phone_number, emergency_name,  
    hire_date,  
    last_working_date,  
    years_of_experience,  
    type_of_contract,  
    employment_status,  
    entitlement_to_annual_leave_balance,  
    entitlement_to_accidental_leave_balance  
)  
  
PhoneNumber (  
    employee_id, number  
)  
PhoneNumber.employee_id references Employee.employee_id  
  
Role (  
    role_name,  
    title,  
    rank,  
    description,  
    base_salary,  
    initial_annual_leave,  
    initial_accidental_leave,  
    salary_increase_factor,  
    overtime_factor  
)  
  
Department (  
    dept_name,  
    location  
)
```

```

replaces (
    replacement_id,
    employee_on_leave,
    replacement_employee,
    start_date,
    end_date
)
replaces.employee_on_leave references Employee.employee_id
replaces.replacement_employee references Employee.employee_id

works_in (
    role_name, dept_name
)
works_in.role_name references Role.role_name
works_in.dept_name references Department.dept_name

has_role (
    employee_id, role_name
)
has_role.employee_id references Employee.employee_id
has_role.role_name references Role.role_name

Leave (
    request_id,
    employee_id,
    date_of_request,
    approval_status,
    start_date,
    end_date,
    total_num_of_days
)
Where Leave.total_num_of_days = Leave.end_date - Leave.start_date
Leave.employee_id references Employee.employee_id

reviews (
    request_id, employee_id
)
reviews.request_id references Leave.request_id
reviews.employee_id references Employee.employee_id

Accidental_Leave (
    request_id
)
Accidental_Leave.request_id references Leave.request_id

Annual_Leave (
    request_id
)
Annual_Leave.request_id references Leave.request_id

```

```

Medical_Leave (
    request_id,
    insurance_status,
    disability_details
)
Medical_Leave.request_id references Leave.request_id

Sick_Leave (
    request_id
)
Sick_Leave.request_id references Medical_Leave.request_id

Maternity_Leave (
    request_id
)
Maternity_Leave.request_id references Medical_Leave.request_id

Compensation_Leave (
    request_id,
    date_of_extra_workday,
    reason
)
Compensation_Leave.request_id references Leave.request_id

Document (
    document_id,
    type,
    size,
    creation_date,
    expiry_date,
    status,
    storage_location,
    description,
    filename,
    employee_id
)
Document.employee_id references Employee.employee_id

filed (
    document_id, request_id
)
filed.document_id references Document.document_id
filed.request_id references Request.request_id

```

```

Performance (
    performance_id,
    rating,
    employee_id
)
Performance.employee_id references Employee.employee_id

Performance_Comments (
    performance_id,
    comment
)
Performance_Comments.performance_id references Performance.performance_id

Payroll (
    payroll_id,
    bonuses_amount,
    final_salary_amount,
    deductions_amount,
    payment_date,
    employee_id
)
Payroll.employee_id references Employee.employee_id

Payroll_Comments (
    payroll_id, comment
)
Payroll_Comments.payroll_id references Payroll.payroll_id

Attendance (
    attendance_record_id,
    date,
    check_in_time,
    check_out_time,
    total_duration,
    employee_id
)
Attendance.employee_id references Employee.employee_id
Where total_duration = check_out_time - check_in_time

Deduction (
    deduction_id,
    amount,
    type,
    date,
    status,
    employee_id
)
Deduction.employee_id references Employee.employee_id

```