## 1. Employees

```
CREATE TABLE Employees(
    id INT PRIMARY KEY AUTO_INCREMENT,
    name VARCHAR(100),
    email VARCHAR(100) UNIQUE,
    password VARCHAR(100),
    role ENUM('TEAM_LEADER', 'PROJECT_MANAGER', 'HR', 'INTERVIEWER',
'BENCH'),
    salary DECIMAL(10,2) DEFAULT 0.00,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
2. Job_requests
CREATE TABLE job_requests (
    id INT PRIMARY KEY AUTO_INCREMENT,
    title VARCHAR(255),
    description TEXT,
    required_employees INT,
    created_by INT,
                                                  -- TL
    status ENUM('PENDING_PM', 'FORWARDED_HR', 'CLOSED') DEFAULT
'PENDING_PM'.
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    FOREIGN KEY (created_by) REFERENCES Employees(id)
);
```

# Step 1: Job Request by Team Leader (TL)

- The Team Leader logs in and creates a Job Request by filling:
  - Job Title
  - Job Description
  - Number of required employees

- This data is saved in the job\_requests table.
- The status of the request is set to 'PENDING\_PM'.

## 3. Project\_budgets

);

```
CREATE TABLE project_budgets (
    id INT PRIMARY KEY AUTO_INCREMENT,
    job_request_id INT,
                                -- PM who analyzed and created budget
    pm_id INT,
    total_budget DECIMAL(12,2),
    bench_salary_total DECIMAL(12,2),
    calculated_ctc_per_candidate DECIMAL(12,2),
    calculated_new_hires INT,
    forwarded_to_hr BOOLEAN DEFAULT FALSE,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    FOREIGN KEY (job_request_id) REFERENCES job_requests(id),
    FOREIGN KEY (pm_id) REFERENCES Employees(id)
);
4. Bench_assignments
CREATE TABLE bench_assignments (
    id INT PRIMARY KEY AUTO_INCREMENT,
    employee_id INT,
    job_request_id INT,
    FOREIGN KEY (employee_id) REFERENCES employee(id),
    FOREIGN KEY (job_request_id) REFERENCES job_requests(id)
```

## step 2: PM Analyzes the Request

- The **Project Manager** logs in and views all job requests with status = 'PENDING\_PM'.
- PM checks if there are bench employees available.

## a. If Bench Employees Are Available:

- PM assigns them to the request (bench\_assignments table).
- Calculates total salary of bench employees from the employee.salary field.
- Reduces this from the total project budget.

### b. If Not Enough Bench Employees:

- PM decides a project budget and inputs it.
- Calculates CTC per new candidate:

```
total_budget - bench_salary_total = remaining_budget
ctc_per_candidate = remaining_budget / number_of_new_candidates
```

This data is saved in the project\_budgets table with:

- Total budget
- Bench salary total
- CTC per new employee
- Number of new employees needed
- Sets forwarded\_to\_hr = TRUE

Updates job\_requests.status to 'FORWARDED\_HR'

### 5. new\_candidates

```
CREATE TABLE new_candidates (
    id INT PRIMARY KEY AUTO_INCREMENT,
    name VARCHAR(100),
    email VARCHAR(100) UNIQUE,
    phone VARCHAR(15),
    resume_link TEXT,
    skills TEXT,
    added_by INT,
    status ENUM('PENDING_REVIEW', 'APPROVED', 'REJECTED') DEFAULT
'PENDING_REVIEW',
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    FOREIGN KEY (added_by) REFERENCES employee(id)
);
Step 3: HR Processes the Request
  • HR logs in and views requests where:
        o status = 'FORWARDED_HR'
```

o And project\_budgets.forwarded\_to\_hr = TRUE

- HR views:
  - Project budget
  - o CTC per candidate
  - Required number of new hires
- a. Posting & Candidate Management:
  - HR posts the job publicly (external to system).

- HR adds new\_candidates to the system.
- After reviewing, selected ones are promoted to candidates table.

#### 6. Candidates

```
CREATE TABLE candidates (
    id INT PRIMARY KEY AUTO_INCREMENT,
    name VARCHAR(100),
    email VARCHAR(100) UNIQUE,
    phone VARCHAR(15),
    resume_link TEXT,
    skills TEXT,
    added_by INT,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    FOREIGN KEY (added_by) REFERENCES employee(id)
);
7. Applications
CREATE TABLE applications (
    id INT PRIMARY KEY AUTO_INCREMENT,
    candidate_id INT,
    job_request_id INT,
    ctc_offered DECIMAL(10,2),
```

```
status ENUM('PENDING', 'INTERVIEWED', 'SELECTED', 'REJECTED',
'CONFIRMED'),
    applied_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    FOREIGN KEY (candidate_id) REFERENCES candidates(id),
    FOREIGN KEY (job_request_id) REFERENCES job_requests(id)
);
Step 4: Candidate Applications
  • HR maps candidates to a job request via the applications table.
  • For each application:

    HR sets the ctc_offered (usually equal to the calculated

          CTC).
        ○ Status is marked as 'PENDING'.
8. interviews
CREATE TABLE interviews (
```

```
id INT PRIMARY KEY AUTO_INCREMENT,
application_id INT,
interviewer_id INT,
result ENUM('SELECTED', 'REJECTED'),
feedback TEXT,
interview_date TIMESTAMP,
FOREIGN KEY (application_id) REFERENCES applications(id),
```

```
FOREIGN KEY (interviewer_id) REFERENCES employee(id)
);
```

# **Step 5: Interview Process**

- The Interviewer logs in and views applications assigned.
- Conducts interview and records:
  - Result (SELECTED or REJECTED)
  - Feedback
- Stored in interviews table.

# Step 6: Finalization by HR

- If selected:
  - HR confirms and updates applications.status = 'CONFIRMED'
  - $\circ\,$  Sends a confirmation mail and document checklist to the candidate.
- If not selected:
  - Status is set to 'REJECTED'

# **Step 7: Closing the Request**

- If the number of confirmed candidates + bench employees = required employees:
  - $\circ~$  HR or PM closes the job request:
    - job\_requests.status = 'CLOSED'

Action	Table Involved
TL creates job	job_requests
PM assigns bench & budget	<pre>bench_assignments, project_budgets</pre>
HR adds/view candidates	new_candidates, candidates
HR maps candidate to job	applications
Interviewer evaluates	interviews
HR finalizes offer	applications, mail system