

Database Tables Documentation:

1. Departments Table:

Table Name: departments

Column Name	Data Type	Constraints	Description
id	SERIAL	PRIMARY KEY	Unique identifier for a department.
name	VARCHAR(100)	NOT NULL	Name of the department.

2. Positions Table:

Table Name: positions

Column Name	Data Type	Constraints	Description
id	SERIAL	PRIMARY KEY	Unique identifier for a position.
name	VARCHAR(100)	NOT NULL	Name of the position.

3. Projects Table:

Table Name: projects

Column Name	Data Type	Constraints	Description
id	SERIAL	PRIMARY KEY	Unique identifier for a project.
name	VARCHAR(100)	NOT NULL	Name of the project.

4. Skills Table:

Table Name: skills

Column Name	Data Type	Constraints	Description
id	SERIAL	PRIMARY KEY	Unique identifier for a skill.
name	VARCHAR(100)	NOT NULL	Name of the skill.

5. Roles Table:

Table Name: roles

Column Name	Data Type	Constraints	Description
id	SERIAL	PRIMARY KEY	Unique identifier for a role.
name	VARCHAR(100)	NOT NULL	Name of the role.

6. Employees Table:

Table Name: employees

Column Name	Data Type	Constraints	Description
id	SERIAL	PRIMARY KEY	Unique identifier for an employee.
name	VARCHAR(100)	NOT NULL	Name of the employee.
department_id	INTEGER	FOREIGN KEY (departments.id)	Foreign key referencing departments table.
position_id	INTEGER	FOREIGN KEY (positions.id)	Foreign key referencing positions table.
project_id	INTEGER	FOREIGN KEY (projects.id)	Foreign key referencing projects table.
skill_id	INTEGER	FOREIGN KEY (skills.id)	Foreign key referencing skills table.
role_id	INTEGER	FOREIGN KEY (roles.id)	Foreign key referencing roles table.

Functionality Overview:

1. View Employees:

- Navigate to the "View Employees" page.
- Displays a table of all employees with details such as name, department, position, project, skill, and role.
- Supports sorting of employees alphabetically based on project name.

2. Add Employee:

- Navigate to the "Add Employee" page.
- Fill in the employee details, including name, department, position, project, skill, and role.
- Click the "Add Employee" button to add a new employee.

3. Edit Employee:

- Navigate to the "Edit Employee" page for a specific employee.
- Modify the employee details as needed.
- Click the "Update Employee" button to save the changes.

4. Delete Employee:

- Click the "Delete" link next to an employee on the "View Employees" page.
- Confirm the deletion when prompted.
- Deletes the selected employee from the system.