

1 Create Employee and Link with User

```
# Create a new user
user = env['res.users'].create({
    'name': 'John Doe',
    'login': 'johndoe@example.com',
    'email': 'johndoe@example.com',
    'password': '123456'
})

# Create employee linked to user
employee = env['hr.employee'].create({
    'name': user.name,
    'user_id': user.id,
    'work_email': user.email
})

print(f"Employee {employee.name} created and linked to user {user.login}")
```

2 Create Employee From Existing User

```
# Search for existing user
user = env['res.users'].search([('login', '=', 'johndoe@example.com')],
limit=1)

if user:
    employee = env['hr.employee'].create({
        'name': user.name,
        'user_id': user.id,
        'work_email': user.email
    })
```

3 Create Department and Assign Employees

```
# Create IT Engineers department
it_department = env['hr.department'].create({
    'name': 'IT Engineers'
})

# Assign employees to IT Engineers
```

```
employees = env['hr.employee'].search([('user_id', 'in', [user.id])])
employees.write({'department_id': it_department.id})

print(f"Assigned {employees.mapped('name')} to {it_department.name}")
```

4 Search Employees in IT Engineers Department

```
it_employees = env['hr.employee'].search([('department_id.name', '=', 'IT
Engineers')])

for emp in it_employees:
    print(emp.name, emp.work_email)
```

5 Implement Filters & Groups

Filters

- In Odoo UI: Employees → Add Filter → Department → IT Engineers
- Python equivalent:

```
it_employees = env['hr.employee'].search([('department_id.name', '=', 'IT
Engineers')])
```

Groups

- In Odoo UI: Employees → Group by → Department
- Python aggregation example:

```
from collections import defaultdict

employees = env['hr.employee'].search([])
grouped = defaultdict(list)

for emp in employees:
    grouped[emp.department_id.name].append(emp.name)

for dept, emps in grouped.items():
    print(f"{dept}: {emps}")
```

Output Example:

IT Engineers: ['John Doe', 'Jane Smith']
HR: ['Alice Brown']
Sales: ['Bob White']

Summary Table

Task	Model	Key Fields	Notes
Create Employee & Link to User	hr.employee	name, user_id	Links employee to user
Create Employee from User	hr.employee	user_id	Create employee for existing user
Create Department & Assign	hr.department, hr.employee	name, department_id	Assign multiple employees
Search Employees	hr.employee	department_id	Returns employees in a department
Filters & Groups	hr.employee	Various	Filters restrict, Groups organize