

```
# Employee Management System (for <8 employees)
```

```
Employees = [] # List to store employee records (each as a dictionary)
```

```
# Function to add a new employee
```

```
Def add_employee():
```

```
    If len(employees) >= 8:
```

```
        Print("\nCannot add more employees. Limit reached (8).")
```

```
    Return
```

```
    Name = input("Enter employee name: ")
```

```
    Dept = input("Enter department: ")
```

```
    Role = input("Enter role: ")
```

```
    Salary = float(input("Enter salary: "))
```

```
    Employees.append({"name": name, "department": dept, "role": role, "salary": salary})
```

```
    Print(f"\nEmployee '{name}' added successfully!\n")
```

```
# Function to view all employees
```

```
Def view_employees():
```

```
    If not employees:
```

```
        Print("\nNo employees to display.\n")
```

```
    Return
```

```
    Print("\n--- Employee Details ---")
```

```
    For i, emp in enumerate(employees, start=1):
```

```
        Print(f"{i}. Name: {emp['name']}, Department: {emp['department']}, "
```

```
              F"Role: {emp['role']}, Salary: {emp['salary']}")
```

```
    Print()
```

```
# Function to search for an employee by name
```

```
Def search_employee():
```

```
    Name = input("Enter employee name to search: ")
```

```
    Found = False
```

```
    For emp in employees:
```

```
        If emp["name"].lower() == name.lower():
```

```
            Print(f"\nFound: {emp}\n")
```

```
            Found = True
```

```
            Break
```

```
    If not found:
```

```
        Print("\nEmployee not found.\n")
```

```
# Function to update employee details
```

```
Def update_employee():
```

```
    Name = input("Enter employee name to update: ")
```

```
    For emp in employees:
```

```
        If emp["name"].lower() == name.lower():
```

```
            Print("\nEnter new details (leave blank to keep old value):")
```

```
            New_dept = input(f"Department ({emp['department']}): ") or emp["department"]
```

```
            New_role = input(f"Role ({emp['role']}): ") or emp["role"]
```

```
            New_salary = input(f"Salary ({emp['salary']}): ")
```

```
            New_salary = float(new_salary) if new_salary else emp["salary"]
```

```
            Emp.update({"department": new_dept, "role": new_role, "salary": new_salary})
```

```
            Print(f"\nEmployee '{name}' updated successfully!\n")
```

```
            Return
```

```
Print("\nEmployee not found.\n")
```

```
# Function to delete an employee
```

```
Def delete_employee():
```

```
    Name = input("Enter employee name to delete: ")
```

```
    For emp in employees:
```

```
        If emp["name"].lower() == name.lower():
```

```
            Employees.remove(emp)
```

```
            Print(f"\nEmployee '{name}' deleted successfully!\n")
```

```
        Return
```

```
Print("\nEmployee not found.\n")
```

```
# Main menu
```

```
Def menu():
```

```
    While True:
```

```
        Print("=== Employee Management System ===")
```

```
        Print("1. Add Employee")
```

```
        Print("2. View Employees")
```

```
        Print("3. Search Employee")
```

```
        Print("4. Update Employee")
```

```
        Print("5. Delete Employee")
```

```
        Print("6. Exit")
```

```
    Choice = input("Enter your choice (1-6): ")
```

```
    If choice == "1":
```

```
    Add_employee()
elif choice == "2":
    View_employees()
elif choice == "3":
    Search_employee()
elif choice == "4":
    Update_employee()
elif choice == "5":
    Delete_employee()
elif choice == "6":
    Print("\nExiting... Goodbye!\n")
    Break
else:
    Print("\nInvalid choice! Try again.\n")

# Run the system
Menu()
```