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| ID | Test case | Procedure | Expected Output | Screenshot | Result |
| 1 | Display all employees in the system | In the menu, input “1” to display all employees | All information of the employees should be displayed |  |  |
| 2 | Add an employee with name “Jeff Bezos”, salary 40000, and works in IT department | Input “2” in the menu, and then input “Jeff Bezos” as name, 40000 as salary and “IT” as department | The information of this employee should be displayed in the updated employee diagram, the employee ID should be auto-generated following the last employee ID |  |  |
| 3 | Remove the employee with ID “IVE00003” | Input “3” in the menu, and then input employee ID “IVE00003” | The employee should be removed from the employee diagram |  |  |
| 4 | Update the “IVE00007” employee’s salary to 30000 | Input “4” in the menu, and then input the employee ID and salary | Display the employee data. The updated salary should be displayed in the updated employee data |  |  |
| 5 | Show the company statistics | Input “5” in the menu | First show the how the number of staff, highest salary, lowest salary and average salary of each department |  |  |
| 6 | Test input validation for adding employees (name) | Input “2” in the menu, then input “hk25” as name | Raise error and ask for new input |  |  |
| 7 | Test input validation for adding employees (salary) | Input “2” in the menu, then input “John Doe” as name and 0 as salary | Raise error and ask for new input |  |  |
| 8 | Test input validation for adding employees (department) | Input “2” in the menu, then input “John Doe” as name, 3000 as salary and “Sales” as department | Raise error and ask for new input |  |  |
| 9 | Test “enter to return” | Input “2” in the menu, then press enter | Return to the previous menu |  |  |
| 10 | Test “enter to exit” | In the beginning menu, do not input anything, press enter | Exit the program |  |  |