**Mini-database Program Testing**

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| **Requirements** | **Test Case/data** | **Expected Output** | **Observed Output /Comment** |
| Read from a file | **Employee.db** | Successfully reads from file |  |
| Write to file | **Employee.db** | Succesfully writes to file |  |
| RETRIEVE | last name: wang | Display all employees with last name wang | Sophie Wang  Peter Wang |
| first name: | Sophie,Peter |  |
| SSN: |  |  |
| Birth date: |  |  |
| Salary |  |  |
| DELETE |  | The employee was deleted successfully | << |
| UPDATE |  | The employee was updated successfully | << |
| INSERT |  | The employee was successfully inserted into the database |  |
| QUIT |  | Are you sure you want to exit? Changes will be written to the database |  |
| Input validation | Menu validation: | yes |  |
| Insert field validation: | yes |  |
| Insert duplication check: | yes |  |
| Update field validation:   * First and last name * SSN * Birth date * Salary | Yes all validated through auxiliary functions |  |
| Update confirmation: | yes |  |
| Delete confirmation: | yes |  |
| Use functions | **yes** |  |  |
| Use linked list | **no** |  |  |
| Use classes | **yes** |  |  |
| Proper variable names | **yes** |  |  |
| Proper indentation | **yes** |  |  |
| Proper header and inline comments | **yes** |  |  |
| No global variables | **yes** |  |  |
| Friendly user interface | **yes** |  |  |