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Project 2

Writeup and testing

Testing-should retest all functions from project 1 and also test the sort database function from project 2

Read Compilation and initial print

```
root@DESKTOP-Q5H0GRD: /mnt/d/Documents/School/Year 3 semester 2/Cosc 220 computer science 2/Projects/Project_2
Type R for Retrieve
Type S to Sort and Print the Database
Type E to Exit and write changes to Database
Your Selection:^C
root@DESKTOP-Q5H0GRD: /mnt/d/Documents/School/Year 3 semester 2/Cosc 220 computer science 2/Projects/Project_2# make
g++ -c proj_2main.cpp
root@DESKTOP-Q5H0GRD: /mnt/d/Documents/School/Year 3 semester 2/Cosc 220 computer science 2/Projects/Project_2# make clean
rm proj_2main.o
root@DESKTOP-Q5H0GRD: /mnt/d/Documents/School/Year 3 semester 2/Cosc 220 computer science 2/Projects/Project_2# ./project_2
-----
First      Last      SSN      DOB      SALARY
Name      Name
-----
Junyi      Tu      000-88-1111 12-25-2000 67000
Joe        Anderson 088-88-8888 10-02-2004 55000
David      Parker   100-00-1111 12-23-1945 200000
Sophie     Wang     111-00-1111 07-23-1965 100000
Sang-eon   Park     123-45-6781 06-10-1965 90000
Yaping     Jing     654-32-1000 05-20-1975 65000
Peter      Wang     777-88-6661 09-12-1998 55555
Giulia     Frachi   881-81-1118 11-02-1988 78000
John       Doe      888-88-8888 11-02-2004 50000
```

Insert

```
Your Selection:1
Please enter your first name (10 letters or less)
Jeremy

Please enter your last name (10 letters or less)
Scheuerman

Please enter your SSN in the following format 123-45-6789
346-87-5476

Please enter your birthday in the following format MM-DD-YYYY
06-15-2000

Please enter your Salary
458887

The data was inserted successfully
The employee has been successfully added to the database
```

Delete function

```
-----  
      First      Last      SSN      DOB      SALARY  
      Name      Name  
-----  
      Junyi      Tu      000-88-1111      12-25-2000      67000  
      Joe      Anderson      088-88-8888      10-02-2004      55000  
      David      Parker      100-00-1111      12-23-1945      200000  
      Sophie      Wang      111-00-1111      07-23-1965      100000  
      Sang-eon      Park      123-45-6781      06-10-1965      90000  
      Yaping      Jing      654-32-1000      05-20-1975      65000  
      Peter      Wang      777-88-6661      09-12-1998      55555  
      Giulia      Frachi      881-81-1118      11-02-1988      78000  
      John      Doe      888-88-8888      11-02-2004      50000  
  
--Database Menu--  
Type I for Insert  
Type M for Modify  
Type D for Delete  
Type R for Retrieve  
Type S to Sort and Print the Database  
Type E to Exit and write changes to Database  
Your Selection:d  
Please enter the SSN of the employee you want to delete  
Please enter your SSN in the following format 123-45-6789  
888-88-8888  
      John      Doe      888-88-8888      11-02-2004      50000  
Are you sure you permanently want to delete this employee from the database?  
Y/N  
Y  
The specified employee has been deleted successfully
```

Retrieve

ssn

```
Enter your choice:1  
Please enter the SSN of the employee you would like to search  
Please enter your SSN in the following format 123-45-6789  
111-00-1111  
      Sophie      Wang      111-00-1111      07-23-1965      100000
```

Last name

```
-----  
      First      Last      SSN      DOB      SALARY  
      Name      Name  
-----  
Your Selection:r  
How would you like to retrieve the information  
1 by SSN  
2 by last name  
3 by first name  
4 by birthday  
5 by salary  
6 to exit to main menu  
  
Enter your choice:2  
Please enter the last name of the Employee that you would like to search for  
Please enter your last name (10 letters or less)  
Anderson  
      Joe      Anderson      088-88-8888      10-02-2004      55000
```

First Name

```

Enter your choice:3
Please enter your first name (10 letters or less)
Junyi
      Junyi          Tu   000-88-1111 12-25-2000      67000

```

Birthday

```

Enter your choice:
4
Please enter the birthday of the employee that you would like to search for
Please enter your birthday in the following format MM-DD-YYYY
6-10-1965
The birthday is too short
Please enter your birthday in the following format MM-DD-YYYY
06-10-1965
      Sang-eon          Park  123-45-6781 06-10-1965      90000

```

Salary

```

Enter your choice:5
Please enter the salary of the employee that you would like to search for
Please enter your Salary
65000
      Yaping          Jing   654-32-1000 05-20-1975      65000
--Database Menu--

```

Modify

```

Your Selection:M
Please enter the SSN of the employee you want to modify
Please enter your SSN in the following format 123-45-6789
100-00-1111
      David          Parker  100-00-1111 12-23-1945      200000
What information would you like to modify
*SSN cannot be modified
2 for last name
3 for first name
4 for birthday
5 by salary

Enter your choice:2

Please enter your last name (10 letters or less)
Banner
The last name has been modified successfully

--Database Menu--
Type I for Insert
Type M for Modify
Type D for Delete
Type R for Retrieve
Type S to Sort and Print the Database
Type E to Exit and write changes to Database
Your Selection:

```

Insert

```

Type E to Exit and write changes to Database
Your Selection:i
Please enter your first name (10 letters or less)
Alec

Please enter your last name (10 letters or less)
JAra

Please enter your SSN in the following format 123-45-6789
432-65-4543

Please enter your birthday in the following format MM-DD-YYYY
01-01-1999

Please enter your Salary
34

The data was inserted successfully
The employee has been successfully added to the database

```

Write Database

```

Type E to Exit and write changes to Database
Your Selection:e
-----
First      Last      SSN      DOB      SALARY
Name      Name
-----
Junyi      Tu      000-88-1111 12-25-2000    67000
Joe      Anderson 088-88-8888 10-02-2004    55000
David     Parker   100-00-1111 12-23-1945    200000
Sophie    Wang     111-00-1111 07-23-1965    100000
Sang-eon  Park     123-45-6781 06-10-1965    90000
Alec      JAra     543-78-7654 01-04-1999     45
Yaping    Jing     654-32-1000 05-20-1975    65000
Peter     Wang     777-88-6661 09-12-1998    55555
Giulia    Frachi   881-81-1118 11-02-1988    78000
John      Doe      888-88-8888 11-02-2004    50000

The above changes will be committed to the
database file are you sure you want to save and exit?
Y/N
Y
root@DESKTOP-Q5H0GRD:/mnt/d/Documents/School/Year 3 semester 2/Cosc 220 computer science 2/Projects/Project_2

```