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COSC 220

1/29/21

Project 1

Menu interface

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

Retrieve Menu

```
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:
```

Print database function

```
-----------------------------------------------------------------
    First        Last          SSN          DOB         SALARY
    Name         Name
-----------------------------------------------------------------
   Sophie        Wang    111-00-1111 07-23-1965      100000
   David        Parker   100-00-1111 12-23-1945      200000
   John           Doe    888-88-8881 11-02-2004       50000
    Joe       Anderson   088-88-8888 10-02-2004       55000
  Giulia       Frachi    881-81-1118 11-02-1988       78000
 Sang-eon        Park    123-45-6878 06-10-1965       90000
  Yaping         Jing    654-32-1000 05-20-1975       65000
   Peter         Wang    777-88-6665 09-12-1998       55555
  Jeremy     Scheuerman  123-45-6789 06-15-2000       34560
   Jake        Cassidy   475-24-5634 06-11-2000      566543
   Jane        Foster    321-54-9876 07-30-1998       12345
```

Insert Function

```
Your Selection:i
Please enter your first name (10 letters or less)
Jane

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

Please enter your SSN in the following format 123-45-6789
321-54-9876

Please enter your birthday in the following format MM-DD-YYYY
12-23-1999
```

Delete function

```
Please enter the SSN of the employee you want to delete
Please enter your SSN in the following format 123-45-6789
888-88-8881
     John           Doe  888-88-8881 11-02-2004        50000
The specified employee has been deleted successfully
```

Retrieve function

```
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
Type I for Insert
Type M for Modify
Type D for Delete
Type R for Retrieve
Type E to Exit and write changes to Database
Your Selection:
```

Exit to database function

```
Your Selection:e
-----------------------------------------------------------------------
    First          Last            SSN          DOB         SALARY
    Name           Name
-----------------------------------------------------------------------
   Sophie          Wang   111-00-1111 07-23-1965          100000
   David         Parker   100-00-1111 12-23-1945          200000
    John            Doe   888-88-8881 11-02-2004           50000
     Joe       Anderson   088-88-8888 10-02-2004           55000
  Giulia         Frachi   881-81-1118 11-02-1988           78000
Sang-eon           Park   123-45-6878 06-10-1965           90000
  Yaping           Jing   654-32-1000 05-20-1975           65000
   Peter           Wang   777-88-6665 09-12-1998           55555
  Jeremy     Scheuerman   123-45-6789 06-15-2000           34560
    Jake        Cassidy   475-24-5634 06-11-2000          566543
    Jane         Foster   321-54-9876 07-30-1998           12345
The above changes will be committed to the
database file are you sure you want to save and exit?
Y/N
y

Process returned 1 (0x1)   execution time : 120.777 s
Press any key to continue.
```

Source Code:

All attached as .cpp files as it seemed inefficient to put it all here