Program Documentation

Version 1

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DE2 Computing 2

Database Individual Assignment

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1. Installation

NOTE: This program is only supported by UNIX (Mac/Linux) terminal windows. Do not run in Pycharm or on a Windows. Please only run in a UNIX terminal window.

To run the database program, open a terminal (command) window and navigate to the working directory of the program and this documentation file. Example:

\$ cd /Users/username/Downloads/BenedictGreenberg

To start the program, execute run.py in the terminal (command) window.

```
$ python run.py
```

To run in debug mode (debug page opens at startup):

```
$ python run.py debug
```

NB. It is important that *terminaltables* is installed. If you do not have this package you will be redirected at start up and the program will not continue. For installation of *terminaltables* please visit the documentation website.

2. Navigating the menus

For navigating all menus, *CAREFULLY follow the on-screen prompts*. At any time (except the main menu) you can type ... or back to return to the previous menu. In any menu you can type quit or q to exit the program. This is the recommended way to exit the program. If necessary use CTRI+C to exit at any time (any changes will not be saved). NB. Menu navigation is not case sensitive.

On every menu, to select a menu option simply type the option number, option name, or the first letter of the option.

MAIN MENU

- 1. Database
- 2. Import

- 3. Export
- 4. Add new entries
- 5. Remove entries Quit

E.g. To access the *import* menu use any of the following: 2 / i / import

3. Features

Database

The database menu item is the link to interacting with the main database. Once entered, *interaction commands* are used. To find out what these commands are or how to use them, use the help command.

The help or h command will print a widget providing information on the available commands and how they can be used. The table will then be updated to reflect the command.

Commands available include filtering for a range, searching for a key word, printing all data, finding average duration, finding minimum and maximum of a field and sorting (in either direction) for any column.

Import data

The import feature allows the user to provide a filename and import the data from a different .csv to the default file name. After the file has been previewed if this setting is on (it is by default) the user is prompted for a final confirmation.

Export data

The export feature allows the user to export the current database into a .csv file with a custom name. As usual follow the on screen prompts for instructions.

Add entries

This menu allows entries to be addded to the database. An example entry is provided at the top to help the user with filling int the data. The data is validated and therefore has to be inputted just like the example.

Quitting

When quitting you will be prompted to confirm you want to quit. You have three options:

- 1. n no do not quit, return to previous menu
- 2. y yes quit the program, any changes will not be saved
- 3. s **save** quit and save the program, all changes will overwrite 'default_data.csv'.

It is recommended you use the export feature in the main menu to export your data into the desired file before quitting.

4. Debug mode

To enter debug mode run with a command line argument. Example:

```
$ python run.py debug
```

This will print a debug window on launch to provide feedback and information.