Command Line Help File

# **select <-OPTION 1> <-OPTION 2> <FILENAME>**

Select a source of data for reading and saving staff information.

**USAGE:**

select <-OPTION 1> <-OPTION 2> <FILENAME>

**OPTIONS 1:**

-csv : Specify CSV as the source of data. Data will be read and saved to a CSV file.

-db : Specify Database as the source of data. Data will be read and saved to a SQLLite database.

**OPTIONS 2:**

-a : (Optional) Create the file if it doesn't exist.

**FILENAME:**

When select "-csv", FILENAME need to be provided. Otherwise a default file will be used.

**EXAMPLES:**

select -csv.................................................Specify CSV as the source of data.

select -csv -a files/data/staffinfo.csv.....................Specify a CSV file as the source of data. Create one if the path doesn't exist.

select -db..................................................Specify Database as the source of data.

# **add <EMPID> <GENDER> <AGE> <SALES> <BMI> <SALARY> <BIRTHDAY>**

This command adds a new staff data to the system.

**USAGE:**

add <EMPID> <GENDER> <AGE> <SALES> <BMI> <SALARY> <BIRTHDAY>

**DATA FORMAT:**

EMPID..........[A-Z][0-9]{3} e.x.: M123

GENDER.........(M|F) e.x.: F

AGE............[0-9]{2} e.x.: 28

SALES..........[0-9]{3} e.x.: 100

BMI............(Normal|Overweight|Obesity|Underweight) e.x.: Normal

SALARY.........[0-9]{2-3} e.x.: 200

BIRTHDAY.......[1-31]-[1-12]-[0-9]{4} e.x.: 1990-10-21

**EXAMPLES:**

add B123 F 28 100 normal 200 01-01-1990.....................Add a staff with specified information.

# **show <-OPTION> <OBJECT>**

This command is used for displaying all data that is existed in the system.

**USAGE:**

show <-OPTION> <OBJECT>

**OPTIONS:**

-t : Shows all data tables.

-b : Shows a bar graph of the total sales made by males verse the total sales made by female.

-p : Shows a pie chart of the percentage of female workers verse male workers

-c : Shows a scatter plot graph of peoples age verse their salary.

-i : Shows a pie chart of the BMI of a set of people.

**EXAMPLES:**

show -t............................Show all data

show -b bmi........................Show bar chart of bmi

show -p gender.....................Show pie chart of gender

# **save**

This command is used for saving all newly added data to the selected data source.

**USAGE:**

save

**DESCRIPTION:**

Save new data to the selected data source.

# **quit <-OPTION>**

This command is used for quitting the command line mode

**USAGE:**

quit <-OPTION>

**OPTIONS:**

-f : Force quitting the system without saving new data.

**EXAMPLES:**

quit................Normal quit.

quit -f.............Force quitting the system without saving new data.

# **import <-OPTION> <FILENAME>**

Import data from a file that is specified in the command line.

**USAGE:**

import <-OPTION> <FILENAME>

**OPTIONS:**

-csv : Import from a CSV file.

-pk : Import from a pickle file.

**EXAMPLES:**

import -csv testingdata.csv.....Import data from a CSV file "testingdata.csv".

# **export <-OPTION> <FILENAME>**

Export data to a local file that is specified in the command line.

**USAGE:**

export <-OPTION> <FILENAME>

**OPTIONS:**

-pk : Export pickled data to a local file.

**EXAMPLES:**

export -pk data.pk..... Export pickled data to a local file "data.pk".