
TEC102

Majo

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PYTHON_DATA_ANALYSIS

1.1 generate_data module

`generate_data.fake_customer_rating(max)`

Generate a list of customer ratings with names and ratings.

Args:

max (int): The maximum number of customer ratings to generate.

Returns:

list: A list of customer ratings. Each customer rating is a dictionary with keys “name” and “rating”.

`generate_data.fake_food()`

Returns a random food option from the menu with its price and category.

Returns:

list: A list containing the name of the food, its price and category.

1.2 main module

`main.cal_sales_day(data)`

Calculate the total sales for each day of the week and display the data in a table format.

Args:

data (list): A list of lists containing menu data. The first element is the header, and subsequent elements are rows containing menu item information.

Modifies:

None

Prints:

The formatted table with the total sales for each day of the week.

`main.get_customers_ratings(data)`

Displays the customer ratings for a given menu item based on user input.

Args:

data (list): A list of lists containing menu data. The first element is the header, and subsequent elements are rows containing menu item information.

Modifies:

None

Prints:

The formatted table with the customer name and rating for the given item.

main.get_data()

Reads the menu.csv file and returns the data in a list of lists format.

The data is modified to include a row number, the average rating and the total number of customer ratings.

Returns:

list: A list of lists where each inner list represents a row in the menu.csv file.

main.get_most_popular_item(data)

Finds the most popular item in the menu based on customer ratings and displays its name and rating.

Args:

data (list): A list of lists containing menu data. The first element is the header,
and subsequent elements are rows containing menu item information.

Modifies:

None

Prints:

The formatted table with the name and rating of the most popular item.

main.show_data(data)

Displays the data in a tabular format with the total number of customer ratings.

Args:

data (list): A list of lists containing menu data. The first element is the header,
and subsequent elements are rows containing menu item information.

Modifies:

Replaces the 'customer_rating' column with the count of customer ratings and updates the header to 'total_customer_ratings'.

Prints:

The formatted table with updated customer ratings count.

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