Population Maintenance

1. Page Load without error

👥 Population

State:

| Select State | ⌄ |

City:

| | ⌄ |

Population:

| |

[Update Population]

Control	Status
State DropDown List	Enabled
City DropDown List	Disabled
Population TextBox	Disabled
Submit Button	Disabled
Notificaiton Message	No

2. Page Load But there is no data in database

👥 Population

State:

| Select State | ⌄ |

City:

| | ⌄ |

Population:

| |

[Update Population]

There is not GeoData.

Control	Status
State DropDown List	Enabled
City DropDown List	Disabled
Population TextBox	Disabled
Submit Button	Disabled
Notificaiton Message	There is not Geo Data Message shows

3. *Select State and City List shows*

Dashboard / Population Maintenance

😤 Population

State:

NY

City:

Select City

Select City
Buffalo
New York

Update Population

	A	B
	Control	**Status**
	State DropDown List	Enabled
	City DropDown List	Enabled
	Population TextBox	Disabled
	Submit Button	Disabled
	Notificaiton Message	No

Scenario:

when user select the State back to "Select State" option, the city dropdown, population textbox and submit button returns to page loading status.

4. *Select City and population shows*

Dashboard / Population Maintenance

😤 Population

State:

NY

City:

New York

Population:

670000

Update Population

1		
2	**Control**	**Status**
3	State DropDown List	Enabled
4	City DropDown List	Enabled
5	Population TextBox	Enabled
6	Submit Button	Disabled
7	Notificaiton Message	No
8		

Scenario:

when the user selects the State back to "Select City" option, the population textbox and submit button returns to page loading status.

5. *Modify the Population Number*

Dashboard / Population Maintenance

🐾 Population

State:

NY

City:

New York

Population:

970000

[Update Population]

1		
2	**Control**	**Status**
3	State DropDown List	Enabled
4	City DropDown List	Enabled
5	Population TextBox	Enabled
6	Submit Button	Enabled
7	Notificaiton Message	No
8		

NOTE:

1. Population Text only accept number
2. If the population is empty or population length bigger than 12, below message shows and the submit button is disabled again.

Dashboard / Population Maintenance

👥 Population

State:

| NY | ⌄ |

City:

| New York | ⌄ |

Population:

| |

Update Population

| Inputted city population is invalid. |

6. Population Updated Success

Dashboard / Population Maintenance

👥 Population

State:

| Select State | ⌄ |

City:

| | ⌄ |

Population:

| |

Update Population

| The population has been updated for state NY, city New York to population 970000 |

	Control	Status
2	Control	Status
3	State DropDown List	Enabled
4	City DropDown List	Disabled
5	Population TextBox	Disabled
6	Submit Button	Disabled
7	Notificaiton Message	The population has been updated for state {0}, city {1} to population {2}

Holiday Maintenance

1. *Loading*

http://127.0.0.1:8000/reporting/holiday/

📷 Holiday Maintenance - Holiday List

Add Holiday

Holiday Date	Holiday Name
Jan. 1, 2021	New Yaer
Jan. 2, 2021	New Yaer2
Jan. 3, 2021	New Yaer3
April 1, 2021	April Fools' Day
April 2, 2021	New Year 4

📷 Holiday List

Add Holiday

No Holiday!

Add Holiday Loading

Dashboard / Holiday List / Add Holiday

📷 Holiday Maintenance - Add Holiday

Holiday Name:

| Enter Holiday Name |

Holiday Date:

| Select Holiday Date |

[Add Holiday]

NOTE : 1) Input Holiday Name and Select Holiday Date from DateTimePicker

2) The Date Text box is read only and only support the time picker

Dashboard / Holiday List / Add Holiday

📷 Holiday Maintenance - Add Holiday

Holiday Name:

| Enter Holiday Name |

Holiday Date:

| 2021-04-03 |

❮	**April 2021**				❯
Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Holiday is added

📷 Holiday Maintenance - Add Holiday

Holiday Name:

Enter Holiday Name

Holiday Date:

Select Holiday Date

Add Holiday

Holiday (name: New Year 6 and date: 2021-04-06) is added

Scenario: If holiday existed with the same name and same day

📷 Holiday Maintenance - Add Holiday

Holiday Name:

Enter Holiday Name

Holiday Date:

Select Holiday Date

Add Holiday

Holiday is existed with name: April Fools' Day and date: 2021-04-02

Report 8

Loading
http://127.0.0.1:8000/reporting/report8_restaurant_impact_on_category_sales/

Dashboard / Restaurant Impact on Category Sales

◎ Restaurant Impact on Category Sales

Category	Store Type	Quantity Sold
Couches	Non-restaurant	0
	Restaurant	20
Pots and Pans	Non-restaurant	5
	Restaurant	5

Dashboard / Restaurant Impact on Category Sales

◎ Restaurant Impact on Category Sales

No Records!

Note:

1. At most of LEOFURN's stores, the restaurant is located before customers enter the main sales floor. Recent psychometric studies show that customers with a full stomach are less interested in purchasing certain kinds of items (such as dining room furniture, kitchen utensils, etc.) but show stronger interest in others (such as beds, couches, sofas, or reclining chairs). While understanding that the data loaded into LSRS does not allow for correlating individual customer restaurant purchases with other sales, this report aims to provide some insights on if the presence of a restaurant causes this behavioral trend.
2. In the report, for all sales data, for each category, take the total quantity of all products sold in the category and display separate totals for stores with a restaurant, and stores without. For the Store Type that has no quantity sold, 0 will be shown in the third column.
3. The report is ordered by category name ascendingly, with non-restaurant store data listed first.
4. It excludes any categories that are not assigned products as their information would not be useful here.

5. It is presented as "grouped rows" and grouped by category.
6. When there's no category or all existing categories are not assigned products, "No Records!" will be shown.

Report 9

Loading
http://127.0.0.1:8000/reporting/report9_advertising_campaign_analysis/

Dashboard / Advertising Campaign Analysis

⊙ Advertising Campaign Analysis

Product ID	Product Name	Sold During Campaign	Sold Outside Campaign	Difference
PID_1	Product_Name_1	10	5	5

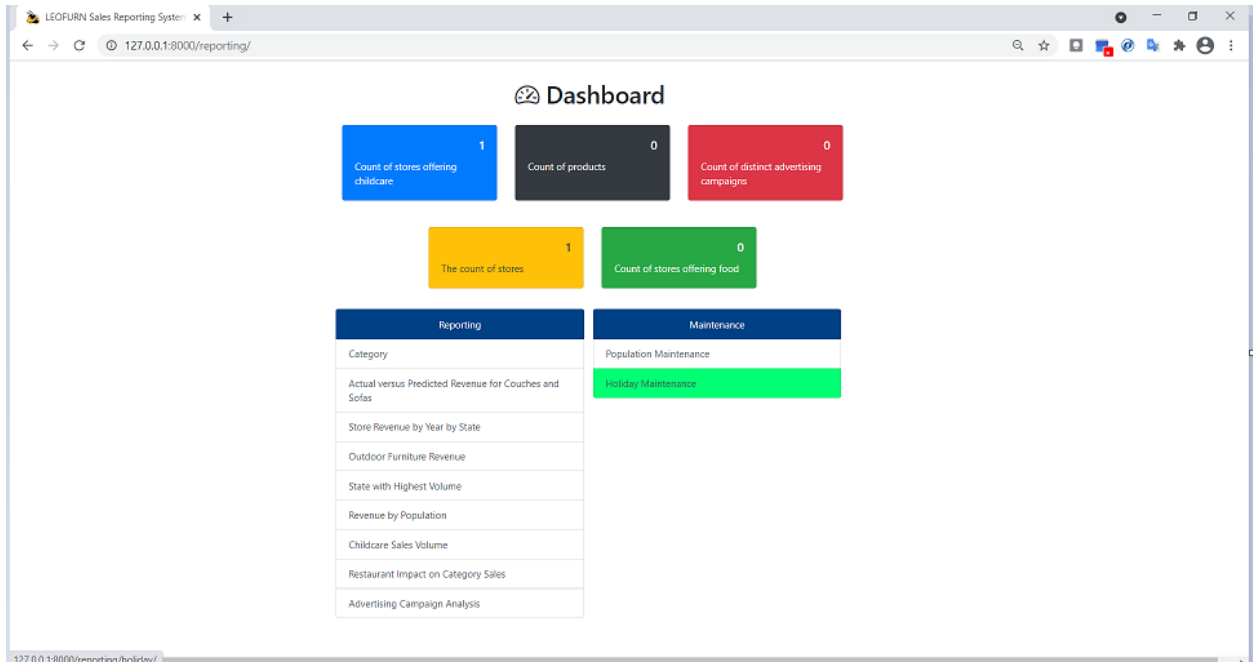Dashboard / Advertising Campaign Analysis

⊙ Advertising Campaign Analysis
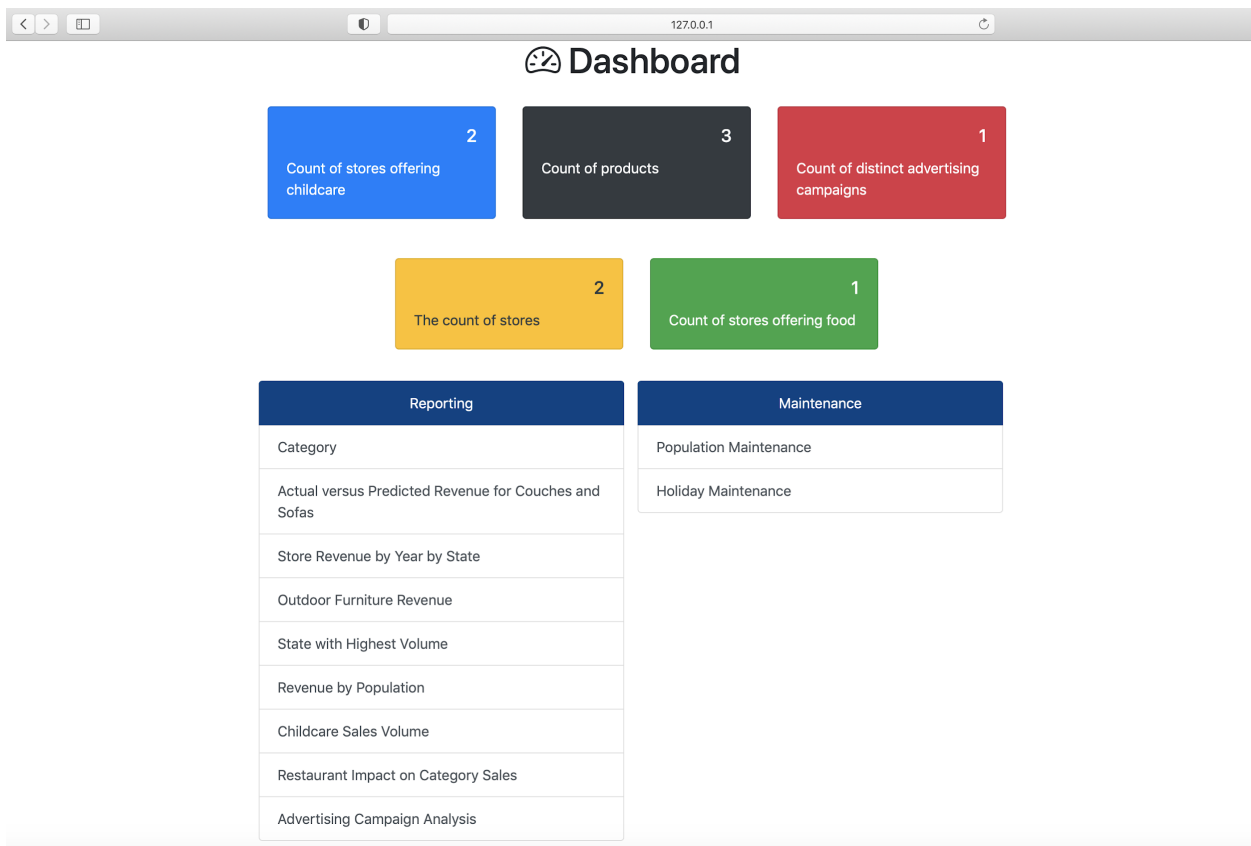
No Records!

Note:

1. While there are numerous possibilities to correlate advertising campaigns and sales data, this report aims to provide a relatively simple analysis: if a product is discounted, does an advertising campaign affect its sales volume?
2. The report queries for all products when a discount price is in effect. For each product, it displays the product ID, the product name, the total sold when any advertising campaign was active, the total sold when no advertising campaign was active, and the difference between the two totals.
3. The results are sorted by difference in descending (highest to lowest) order.
4. Only the top 10, followed by the bottom 10 from the results are shown in this report.
5. When there's no product or all existing products don't have a discount price, "No Records!" will be shown.

Home Page - Dashboard

Robin:

Meihua:

⏱ Dashboard

2	3	1
Count of stores offering childcare	Count of products	Count of distinct advertising campaigns

2	1
The count of stores	Count of stores offering food

Reporting	Maintenance
Category	Population Maintenance
Actual versus Predicted Revenue for Couches and Sofas	Holiday Maintenance
Store Revenue by Year by State	
Outdoor Furniture Revenue	
State with Highest Volume	
Revenue by Population	
Childcare Sales Volume	
Restaurant Impact on Category Sales	
Advertising Campaign Analysis	

Reference Document:

Boostrap Table's HTML

https://getbootstrap.com/docs/4.0/content/tables/

KickOff 会议视频录像

https://drive.google.com/file/d/15ekmsSBsEnhP7dD42jXYCxhTUoTWJHnf/view?usp=sharing

Python、Pycharm、Django安装详细教程
https://blog.csdn.net/diligentkong/article/details/79129185

Python3.6安装使用mysqldb、PyCharm安装pymsql

https://blog.csdn.net/ydw_ydw/article/details/81282692

Pycharm 安装 python - connect mysql 插件说明

https://www.lfd.uci.edu/~gohlke/pythonlibs/#mysqlclient

Dajango 链接 MySQL 密码错误修复

https://www.programmersought.com/article/83934501527/

Python & Django Development Best Practice

https://developer.mozilla.org/zh-CN/docs/learn/Server-side/Django