


Population Maintenance

1. Page Load without error

[Dashboard](#) / [Population Maintenance](#)



Population

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

[Dashboard](#) / Population Maintenance



Population

State:

Select State

City:

Population:

Update Population

There is not GeoData.

	Control	Status
2	State DropDown List	Enabled
3	City DropDown List	Disabled
4	Population TextBox	Disabled
5	Submit Button	Disabled
6	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

1		
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}
8		

Holiday Maintenance

Loading : <http://127.0.0.1:8000/reporting/holiday/>

[Dashboard](#) / [Holiday List](#)

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

[Dashboard](#) / [Holiday Maintenance](#)

Holiday List

Add Holiday

No Holiday!

Add Holiday Loading

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

[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

[Dashboard](#) / [Holiday List](#) / Add Holiday

Holiday Maintenance - Add Holiday

Holiday Name:

Holiday Date:

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

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

[Dashboard](#) / [Holiday List](#) / Add Holiday

Holiday Maintenance - Add Holiday

Holiday Name:

Holiday Date:

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

Report 1

Loading: http://127.0.0.1:8000/reporting/report1_category/

[Dashboard](#) / [Category](#)

Category

Category Name	Total Number of Products	Minimum Regular Retail Price	Average Regular Retail Price	Maximum Regular Retail Price
Couches and Sofas	2	10.0	205.0	400.0
NO product category	0	None	None	None
Outdoor Furniture	2	7.0	13.5	20.0

1. Once the user clicks this link, queries for each category **including those without products**, returns category name, total number of products, Min & Average & Max retail price of products.
2. Sorted by Category_Name in ascending order.

Report 2

Loading: http://127.0.0.1:8000/reporting/report2_actual_vs_predicted_revenue_for_couches_and_sofas/

[Dashboard](#) / [Actual versus Predicted Revenue for Couches and Sofas](#)

Actual versus Predicted Revenue for Couches and Sofas

Product ID	Product Name	Product Retail Price	Total Number of Items Sold	Total Number of Items Sold at Discount Price	Total Number of Items Sold at Retail Price	Actual Revenue	Predicted Revenue	Difference
PID_1	Product_Name_1	10.0	55000	50000	5000	880000.0	425000.0	455000.0
PID_4	Product_Name_4	400.0	11000	10000	1000	385000.0	3400000.0	-3015000.0

1. Once the user clicks this link, queries for each product in '**Couches and Sofas**' category, returns corresponding information shown as the title row in the table.
2. **Only display the revenue difference which is greater than \$5000 (positive or negative)**, sort by revenue difference in descending order.

Report 3

← → ↻ 127.0.0.1:8000/reporting/report3_store_revenue_by_year_by_state/ 🔍 ☆ 📄

Dashboard / Store Revenue by Year by State

👤 Store Revenue by Year by State

State:

Select State ▼

Run Report

Assignment 6: Streaming Wars | LRS - Google Docs | LEOPURN Sales Reporting System

← → ↻ 127.0.0.1:8000/reporting/report3_store_revenue_by_year_by_state/ 🔍 ☆ 📄

Dashboard / Store Revenue by Year by State

👤 Store Revenue by Year by State

State:

None ▼

Please select an item in the list.

Run Report

← → ↻ 127.0.0.1:8000/reporting/report3_store_revenue_by_year_by_state/ 🔍 ☆ ✓ 📄

Dashboard / Store Revenue by Year by State

📊 Store Revenue by Year by State

Store ID	Store Address	City Name	Sales Year	Total Revenue
Store_Number_7	Street_Address_7	Los Angeles	2017	400.0
Store_Number_9	Street_Address_9	San Diego	2017	150.0
Store_Number_8	Street_Address_8	Los Angeles	2018	250.0
Store_Number_10	Street_Address_10	San Diego	2018	150.0

1. If state is not selected and run report button is clicked, message asking for input will be displayed.
2. The report is sorted first by year in ascending order and then by revenue in descending order.

Report 4

Loading: http://127.0.0.1:8000/reporting/report4_outdoor_furniture_revenue/

Dashboard / Outdoor Furniture Revenue

Outdoor Furniture Revenue

Year	Total Number of Items Sold	Average Number of Items Sold per Day	Total Number of Items Sold on Groundhog Day
2012	10	0.0274	10
2013	100	0.2740	0

1. Once the user clicks this link, queries for each year from the 'Outdoor Furniture' Category, returns all years, total number of products sold for each year, average number of products sold per day, and total number of products sold on Groundhog day (Feb 2).

2. Sorted by year in ascending order.

Report 5

Report 6

< > ↺ 127.0.0.1:8000/reporting/report6_revenue_by_population/

🔍 ☆ ✓ 📄

Dashboard / Revenue by Population

Revenue by Population

Years	Small City	Medium City	Large City	Extra Large City
2012	0.0	0.0	415.0	0.0
2013	0.0	0.0	50.0	0.0
2014	0.0	0.0	80.0	0.0
2015	35.0	0.0	0.0	0.0
2016	100.0	0.0	0.0	0.0
2017	150.0	400.0	0.0	0.0
2018	150.0	250.0	0.0	0.0

1. Both rows and columns in this report are arranged in ascending order.
2. When population is updated in the Population Maintenance, the city size category in this report will also be updated simultaneously.

Report 7

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

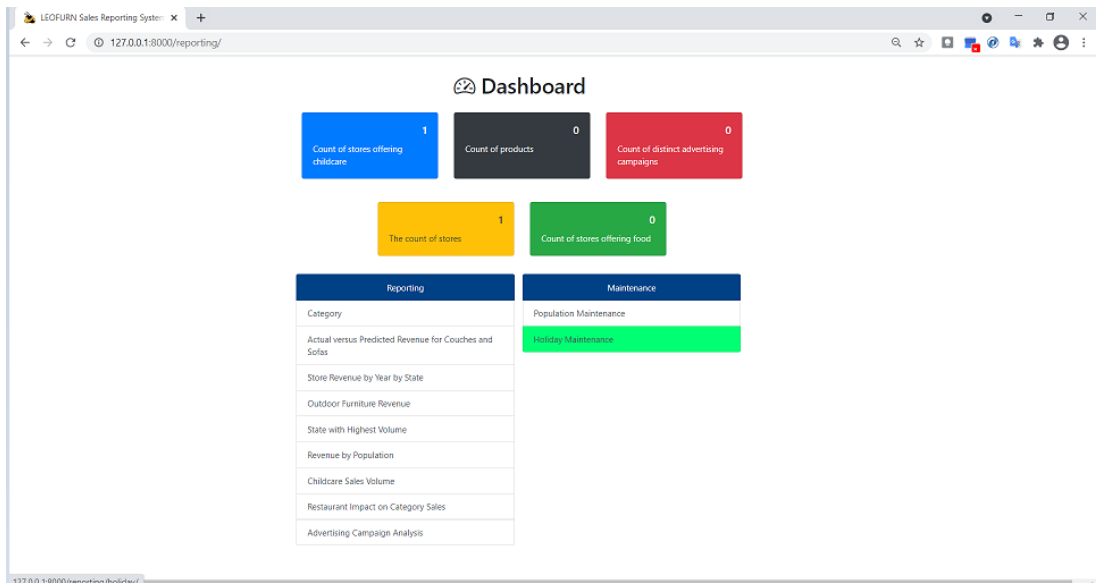
No Records!

Note:

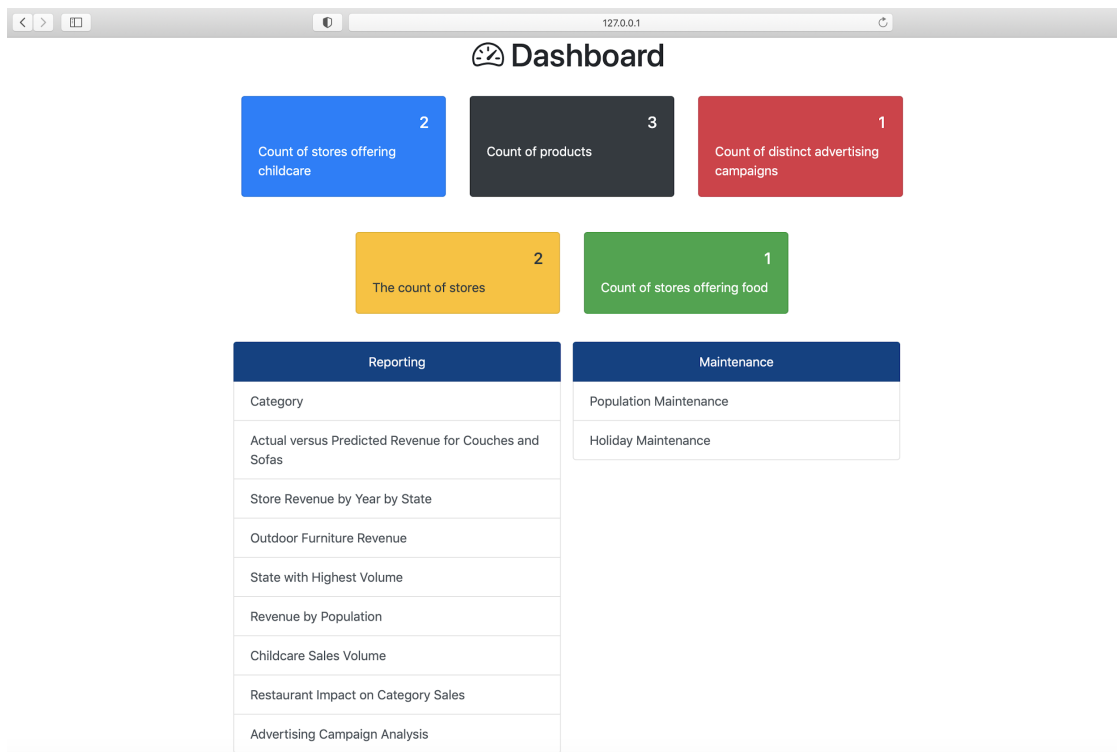
1. While there are numerous possibilities to correlate advertising campaigns and sales data, this report aims to provide a relatively simple analysis: if a product is discounted, does an advertising campaign affect its sales volume?
2. The report queries for all products when a discount price is in effect. 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

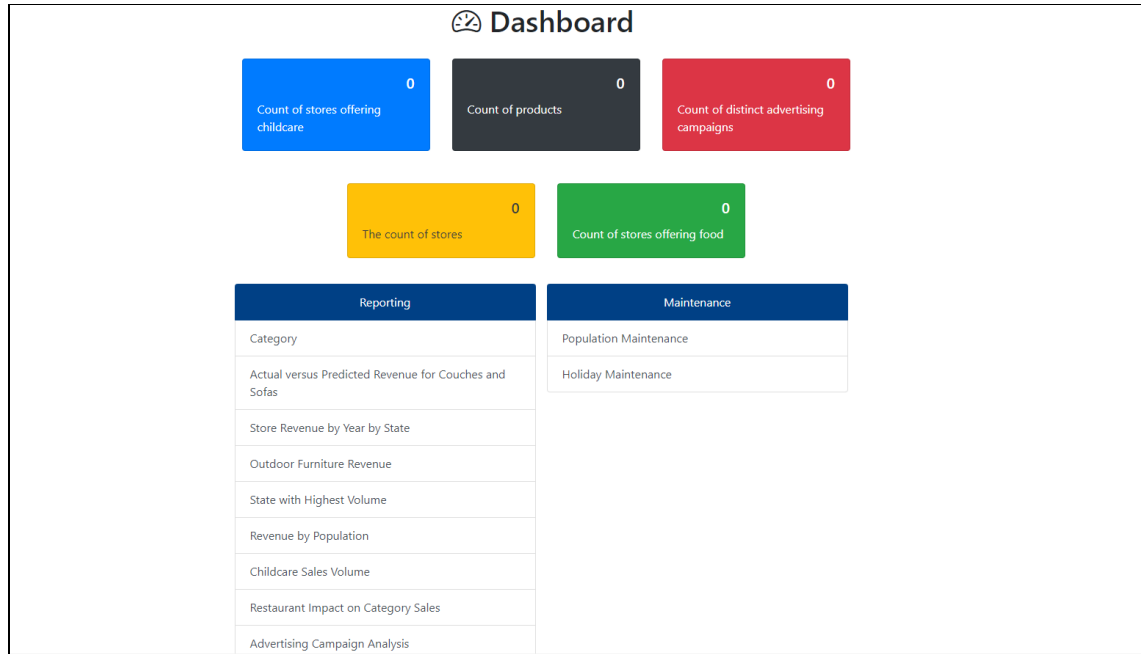
Robin:



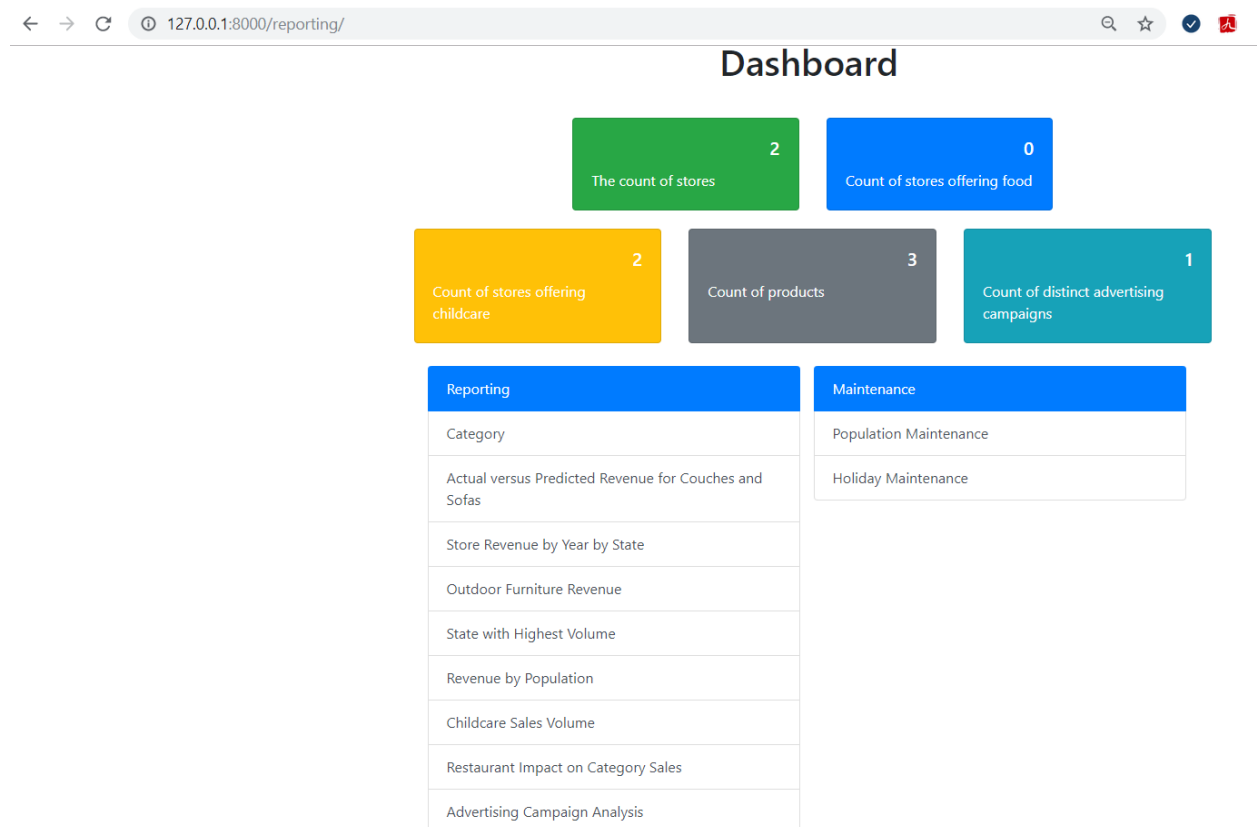
Meihua:



Teng:



Liang



Reference Document:

Bootstrap Table's HTML

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

KickOff 会议视频录像

<https://drive.google.com/file/d/15ekmsSBsEnhP7dD42jXYCxtUoTWJHnf/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pymysql

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>