

# SET UP THE TABLEAU WORKSPACE FOR DATA ANALYSIS

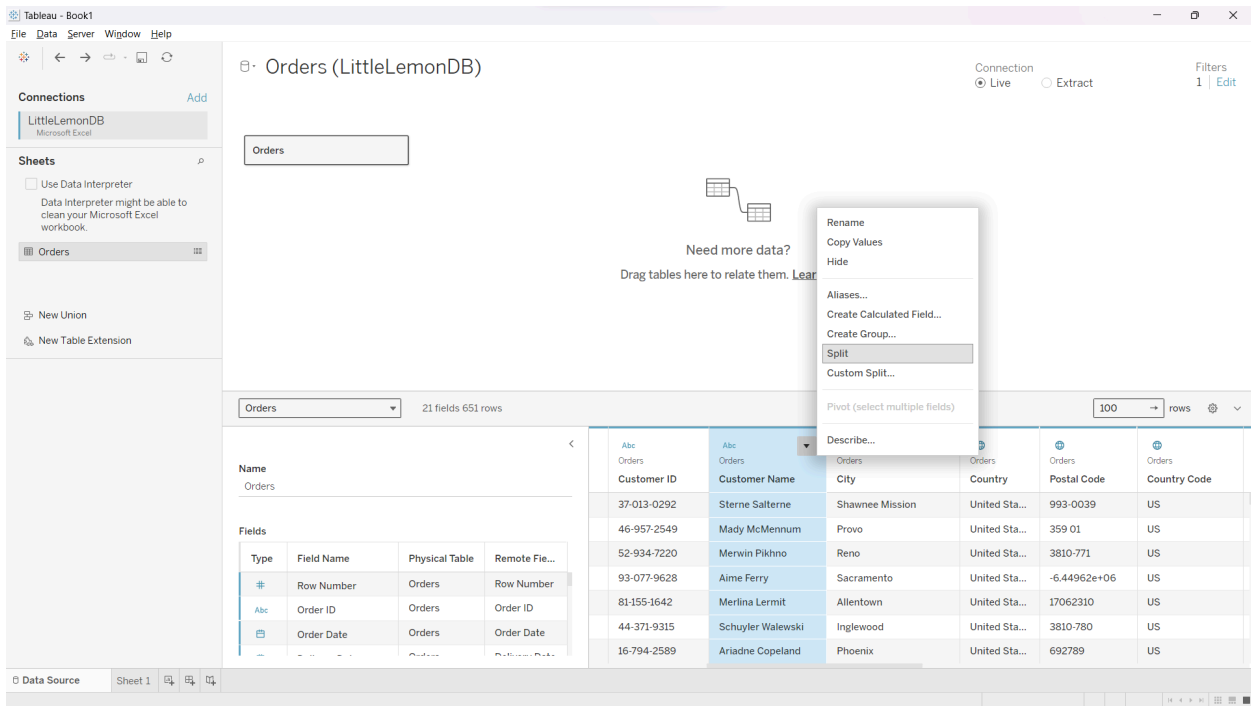
## Task 1:

You need to connect to Little Lemon data stored in the Excel Sheet called LittleLemonDB. Then filter data in the data source page and select the United States as the country.

The screenshot shows the Tableau Desktop interface with the 'Orders (LittleLemonDB)' data source selected. The 'Edit Data Source Filters' dialog is open, showing the 'Country' filter set to 'United States'. The main view displays a table of order data with columns: Row Number, Order ID, Order Date, Delivery Date, Customer ID, Customer Name, and City.

Row Number	Order ID	Order Date	Delivery Date	Customer ID	Customer Name	City
1	54-366-6861	15-06-2020	26-03-2020	72-055-7985	Laney Fadden	Daruoyan
2	63-761-3686	25-08-2020	17-07-2020	65-353-0657	Giacopo Bramich	Ongjin
3	65-351-6434	17-08-2021	24-04-2020	90-876-6799	Lia Bonar	Quince Mil
4	36-917-2834	14-08-2021	13-04-2020	73-873-4827	Merrill Baudon	Susaki
5	86-114-9232	20-12-2020	02-02-2021	80-927-5246	Tasia Fautly	Tobruk
6	67-709-5581	01-03-2020	13-01-2020	77-111-2020	Angel Veschambre	Rafael Herr
7	80-076-4032	04-10-2021	26-10-2019	10-341-4047	Sheilah Maestro	BelozÅersk

**Task 2:**  
You need to create two new data fields called First Name and Last Name. Related values should be extracted from the Full Name field.



<div><div>Abc</div><div>Calculation</div><div>Customer Name - Split 1</div></div>	<div><div>Abc</div><div>Calculation</div><div>Customer Name - Split 2</div></div>
Sterne	Salterne
Mady	McMennum
Merwin	Pikhno
Aime	Ferry
Merlina	Lermit
Schuyler	Walewski
Ariadne	Copeland

Tableau - Book1

File Data Server Window Help

Connections

LittleLemonDB  
Microsoft Excel

Sheets

Use Data Interpreter  
Data Interpreter might be able to clean your Microsoft Excel workbook.

Orders

New Union  
New Table Extension

Orders (LittleLemonDB)

Connection: Live Extract Filters: 1 Edit

Orders

Need more data?  
Drag tables here to relate them. [Learn more](#)

23 fields 651 rows

Name: Orders

Fields

Type	Field Name	Physical Table	Remote File...
Row Number	Row Number	Orders	Row Number
Order ID	Order ID	Orders	Order ID
Order Date	Order Date	Orders	Order Date

Name	Desert Name	Drink	Sides	First Name	Customer Name - Split 2
bread	Turkish yoghurt	Ankara White Wine	Meatballs	Sterne	Salterne
ad	Cheesecake	Italian Coffee	Bruschetta	Mady	McMennum
	Cheesecake	Italian Coffee	Bruschetta	Merwin	Pikhno
ad	Cheesecake	Italian Coffee	Bruschetta	Aime	Ferry
one	Affogato	Roma Red wine	Focaccia	Merlina	Lermit
as	Baklava	Turkish Coffee	Fries	Schuyler	Walewski
	Greek yoghurt	Athens White wine	Tapas	Ariadne	Copeland

Sheet 1

<div>Abc</div> <div>Calculation</div> <div>First Name</div>	<div>Abc</div> <div>Calculation</div> <div>Last Name</div>
Sterne	Salterne
Mady	McMennum
Merwin	Pikhno
Aime	Ferry
Merlina	Lermit
Schuyler	Walewski
Ariadne	Copeland

### Task 3:

You need to create a new data field that stores the profits for each sale, or order as shown in the screenshot below.

The screenshot shows the Tableau Desktop interface. On the left, the 'Connections' pane shows 'LittleLemonDB' (Microsoft Excel) and the 'Sheets' pane shows 'Orders'. The main view displays the 'Orders' data source with a message 'Need more data? Drag tables here to relate them. Learn more'. Below this, a table preview is shown with columns: Country Code, Cost, Sales, Delivery Cost, Course Name, and Cuisine Name. A context menu is open over the 'Sales' column, with the option 'Create Calculated Field...' selected.

Country Code	Cost	Sales	Delivery Cost	Course Name	Cuisine Name
	190.000	285.000	37.7800	Kabasa	Greek
	144.090	216.135	51.7200	Pizza	Greek
	125.000	187.500	14.8000	Pizza	Italian
	91.840	137.760	2.7300	Pizza	Italian
	235.000	352.500	37.4700	Carbonara	Italian
	119.800	179.700	12.2200	Shwarma	Turkish
	125.000	187.500	48.0300	Greek salad	Greek

The screenshot shows the 'Calculation1' dialog box in Tableau. The title bar is 'Calculation1'. The main text area contains '[Sales]'. At the bottom, there is a message 'The calculation is valid.' and two buttons: 'Apply' and 'OK'.

Profit

×

[Sales] - [Cost]|

▶

The calculation is valid.

Apply

OK

# Orders Cost	# Orders Sales	=# Calculation Profit
190.000	285.000	95.000
144.090	216.135	72.045
125.000	187.500	62.500
91.840	137.760	45.920
235.000	352.500	117.500
119.800	179.700	59.900
125.000	187.500	62.500

## CREATE INTERACTIVE DASHBOARD FOR SALES AND PROFITS

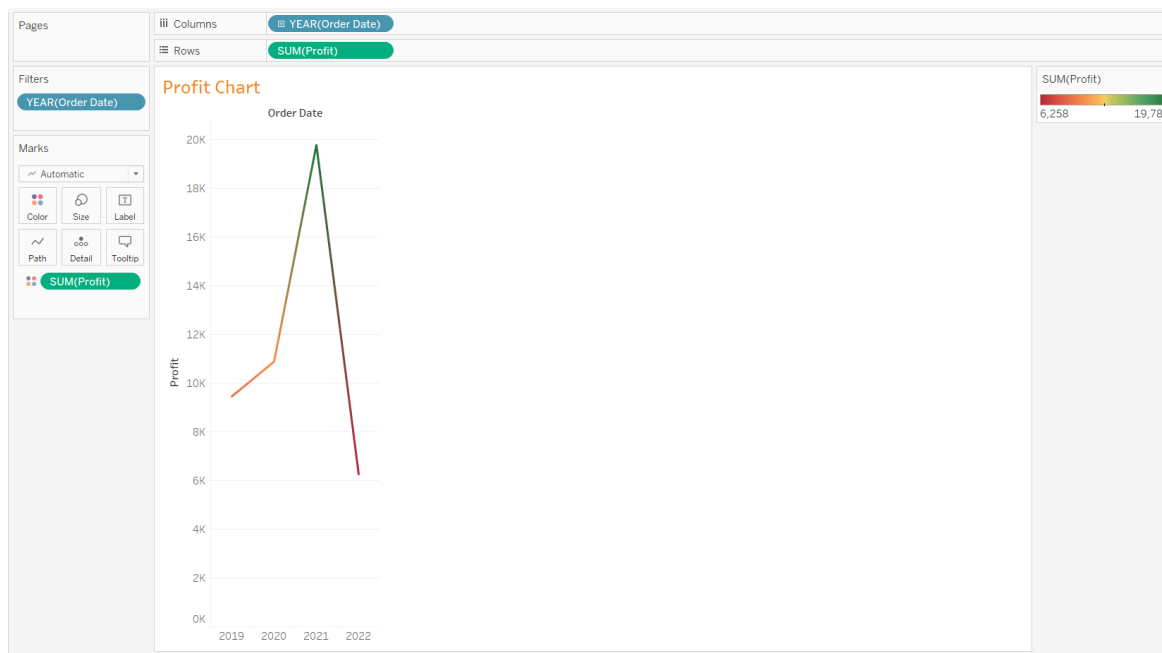
### Task 1:

In the first task, you need to create a bar chart that shows customers' sales and filter data based on sales with at least \$70.



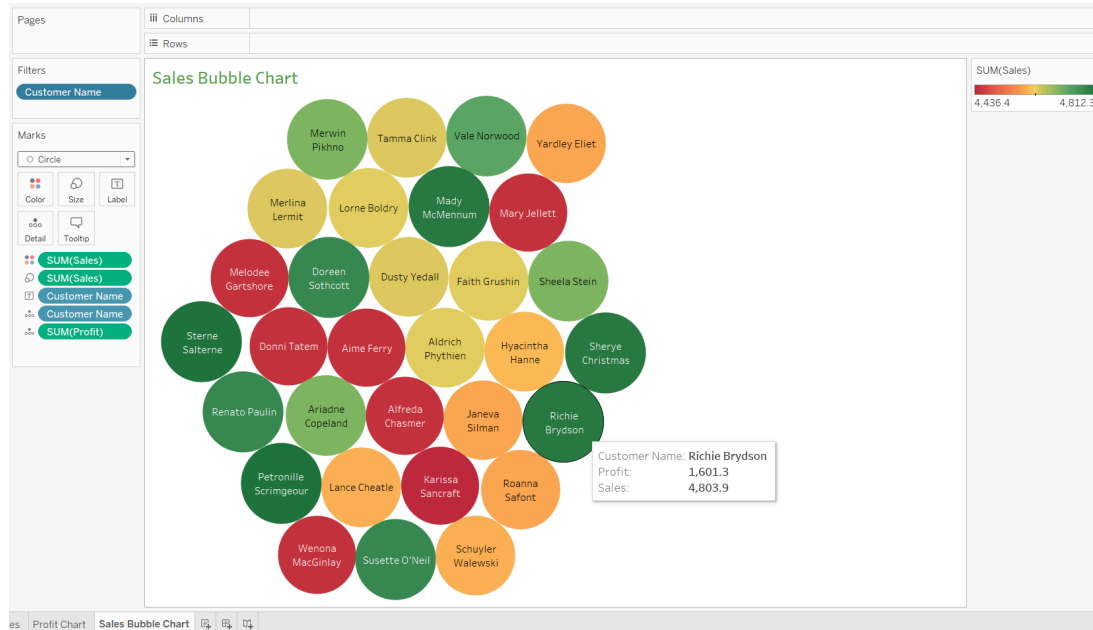
### Task 2:

In the second task, you need to create a line chart to show the sales trend from 2019 to 2022.



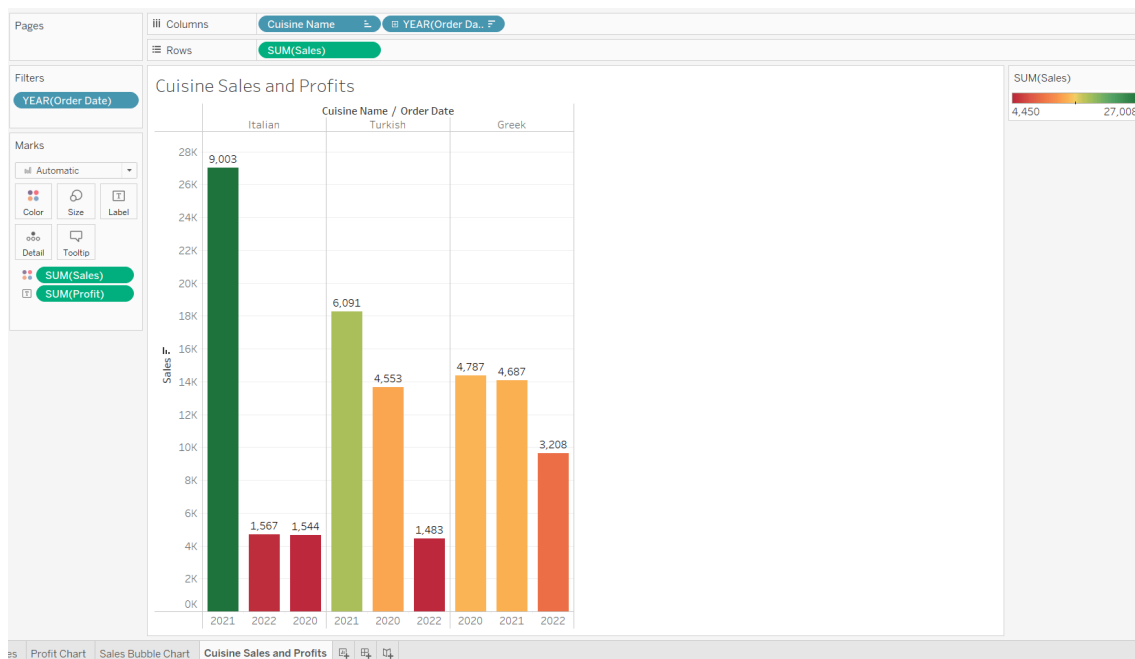
### Task 3:

In the third task, you need to create a Bubble chart of sales for all customers. The chart should show the names of all customers. Once you roll over a bubble, the chart should show the name, profit and sale.



### Task 4:

In this task, you need to compare the sales of the three different cuisines sold at Little Lemon. Create a Bar chart that shows the sales of the Turkish, Italian and Greek cuisines.



Task 5:

In this final task, you need to create an interactive dashboard that combines the Bar chart called Customers sales and the Sales Bubble Chart.

