

# Module 1: Data Preparation Using Tableau Prep

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## Demo Document III

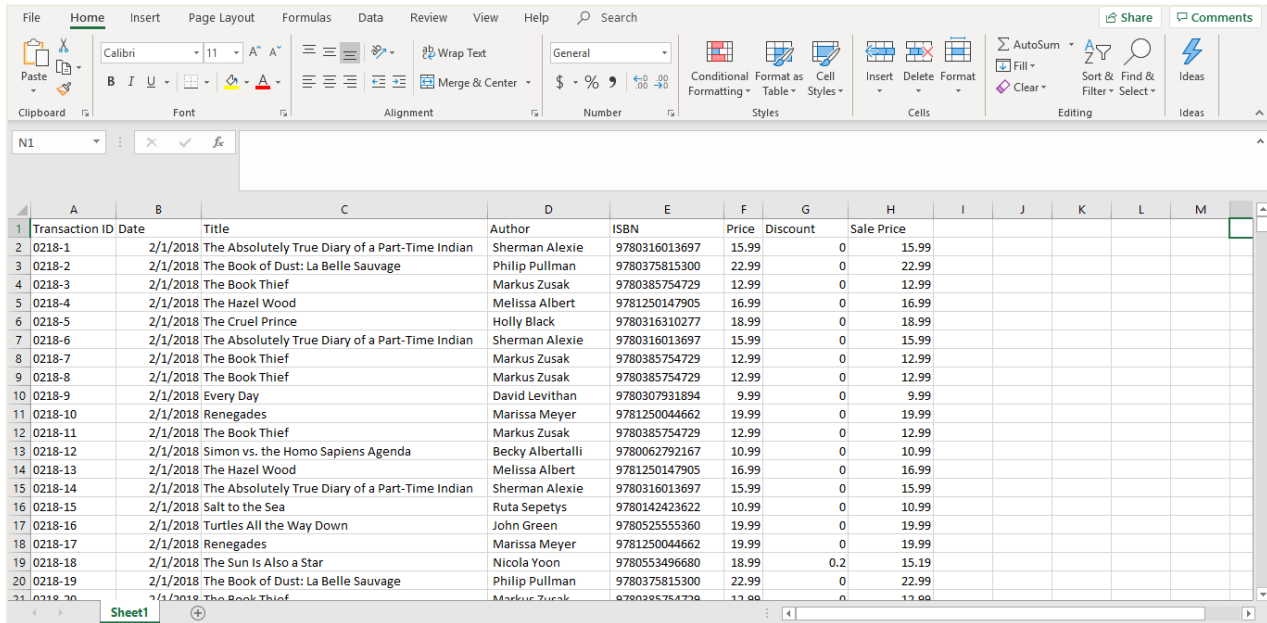
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## Demo III

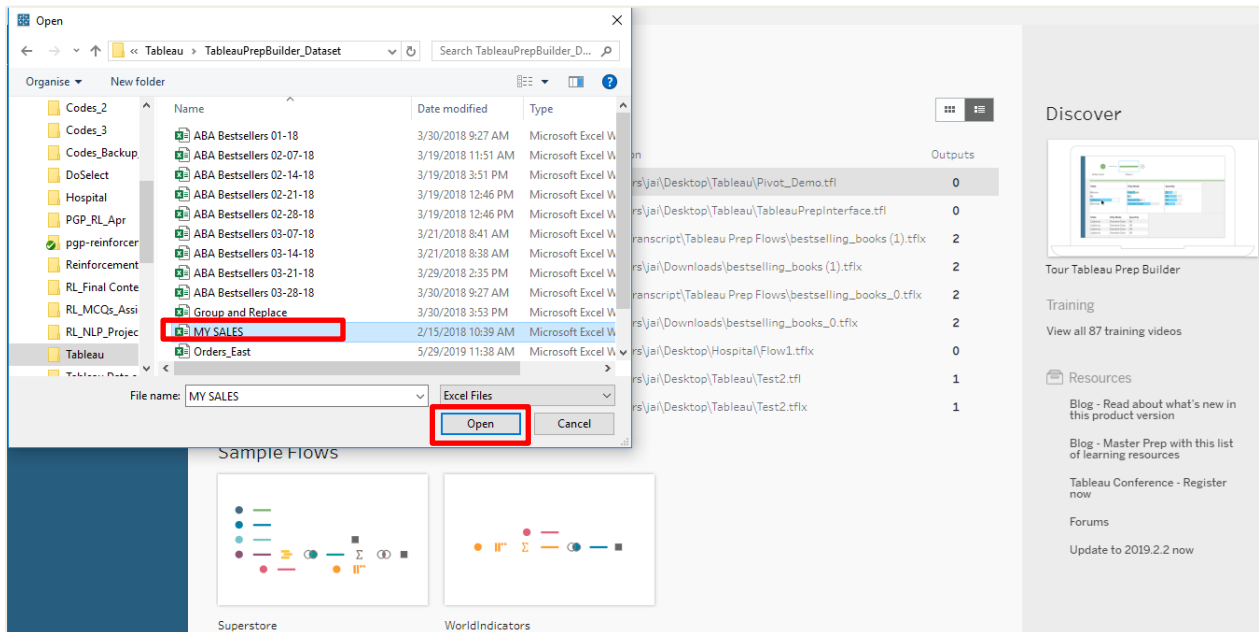
Aggregation is used to change the level of detail of data so that it is less granular, often in preparation for being combined with other data at a higher level of aggregation. Here, we are working with transactional data about sales from a book store. The sales data is a row per transaction. We will aggregate the sales data to be book level rather than transaction level.



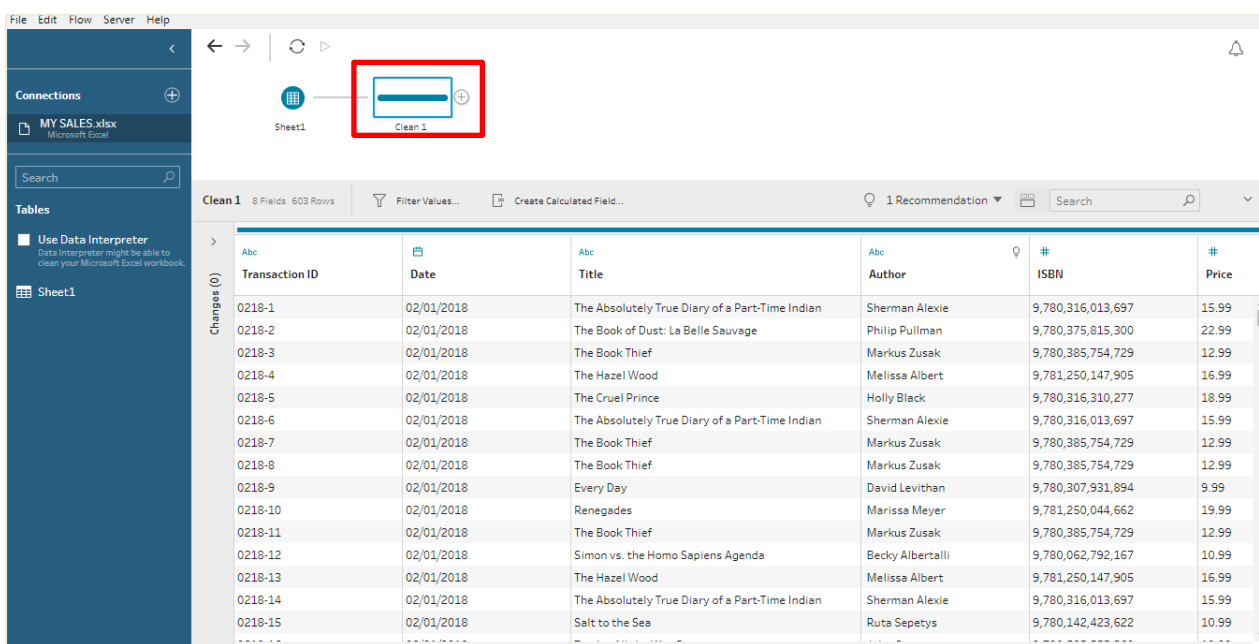
Transaction ID	Date	Title	Author	ISBN	Price	Discount	Sale Price
0218-1	2/1/2018	The Absolutely True Diary of a Part-Time Indian	Sherman Alexie	9780316013697	15.99	0	15.99
0218-2	2/1/2018	The Book of Dust: La Belle Sauvage	Philip Pullman	9780375815300	22.99	0	22.99
0218-3	2/1/2018	The Book Thief	Markus Zusak	9780385754729	12.99	0	12.99
0218-4	2/1/2018	The Hazel Wood	Melissa Albert	9781250147905	16.99	0	16.99
0218-5	2/1/2018	The Cruel Prince	Holly Black	9780316310277	18.99	0	18.99
0218-6	2/1/2018	The Absolutely True Diary of a Part-Time Indian	Sherman Alexie	9780316013697	15.99	0	15.99
0218-7	2/1/2018	The Book Thief	Markus Zusak	9780385754729	12.99	0	12.99
0218-8	2/1/2018	The Book Thief	Markus Zusak	9780385754729	12.99	0	12.99
0218-9	2/1/2018	Every Day	David Levithan	9780307931894	9.99	0	9.99
0218-10	2/1/2018	Renegades	Marissa Meyer	9781250044662	19.99	0	19.99
0218-11	2/1/2018	The Book Thief	Markus Zusak	9780385754729	12.99	0	12.99
0218-12	2/1/2018	Simon vs. the Homo Sapiens Agenda	Becky Albertalli	9780062792167	10.99	0	10.99
0218-13	2/1/2018	The Hazel Wood	Melissa Albert	9781250147905	16.99	0	16.99
0218-14	2/1/2018	The Absolutely True Diary of a Part-Time Indian	Sherman Alexie	9780316013697	15.99	0	15.99
0218-15	2/1/2018	Salt to the Sea	Ruta Sepetys	9780142423622	10.99	0	10.99
0218-16	2/1/2018	Turtles All the Way Down	John Green	9780525555360	19.99	0	19.99
0218-17	2/1/2018	Renegades	Marissa Meyer	9781250044662	19.99	0	19.99
0218-18	2/1/2018	The Sun Is Also a Star	Nicola Yoon	9780553496680	18.99	0.2	15.19
0218-19	2/1/2018	The Book of Dust: La Belle Sauvage	Philip Pullman	9780375815300	22.99	0	22.99
0218-20	2/1/2018	The Book Thief	Markus Zusak	9780385754729	12.99	0	12.99

## Demo III – Solution

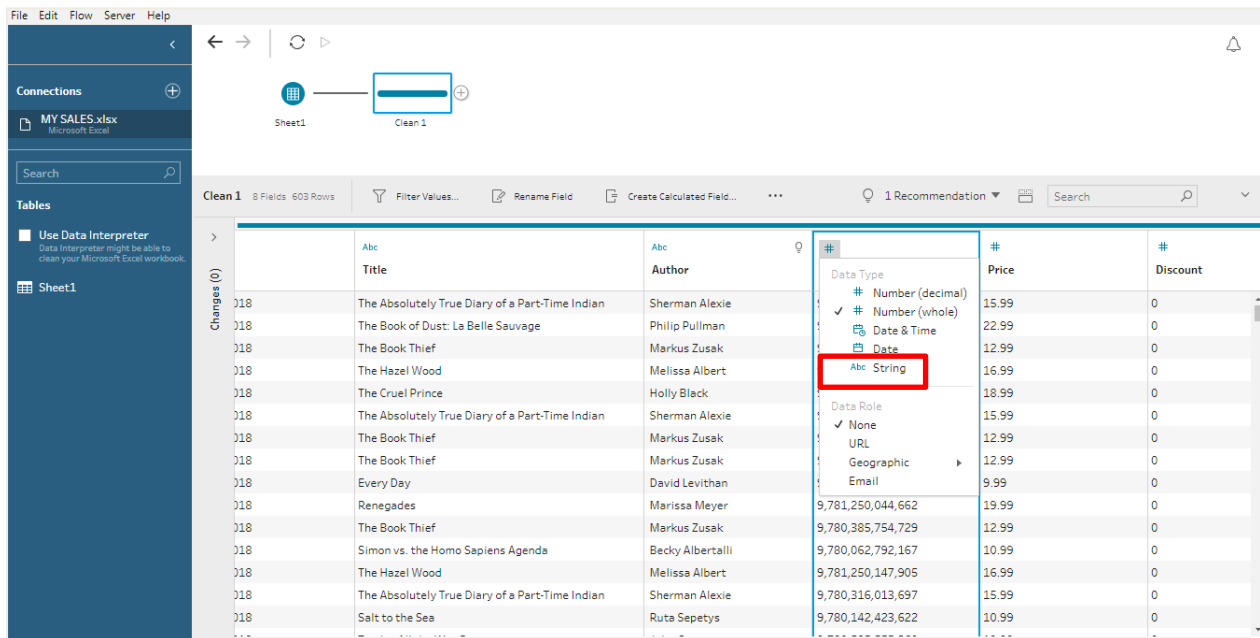
**Step 1:** Connect to the dataset and select “MY SALES” dataset and open the selected file.



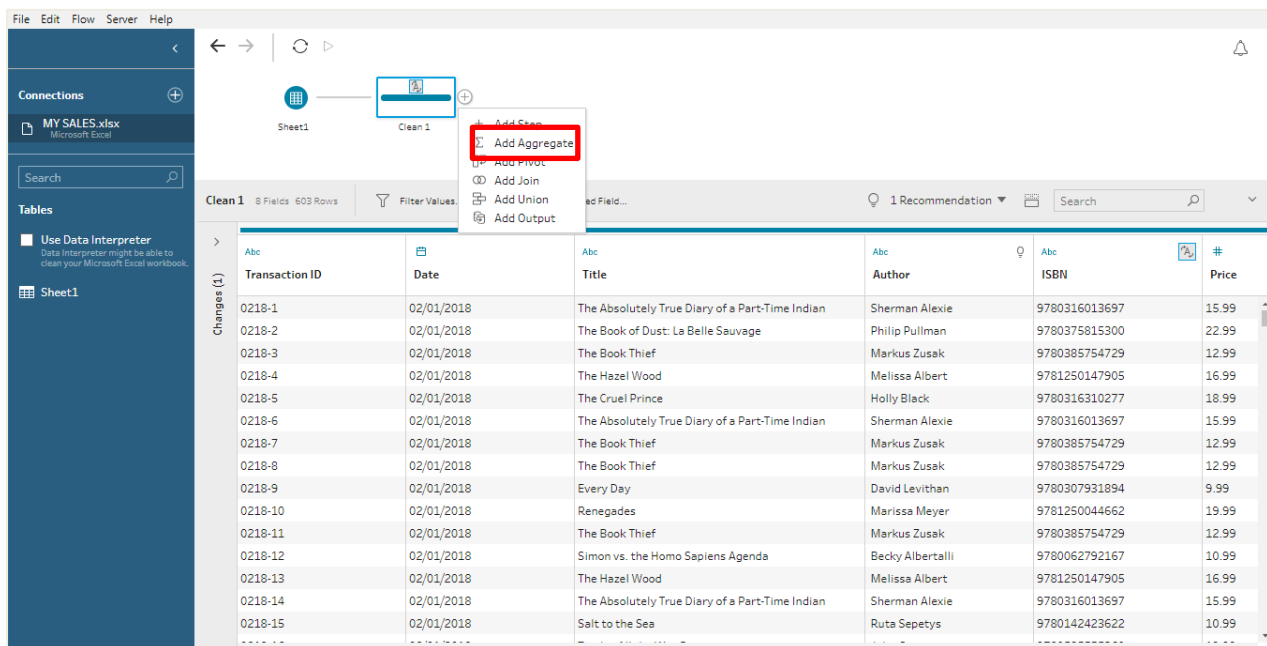
**Step 2:** Add a Cleaning step.



**Step 3:** Right click on “ISBN” card in the table and choose “String” data type for that field.



**Step 4:** Click the “+” button and Select “Add Aggregate”.



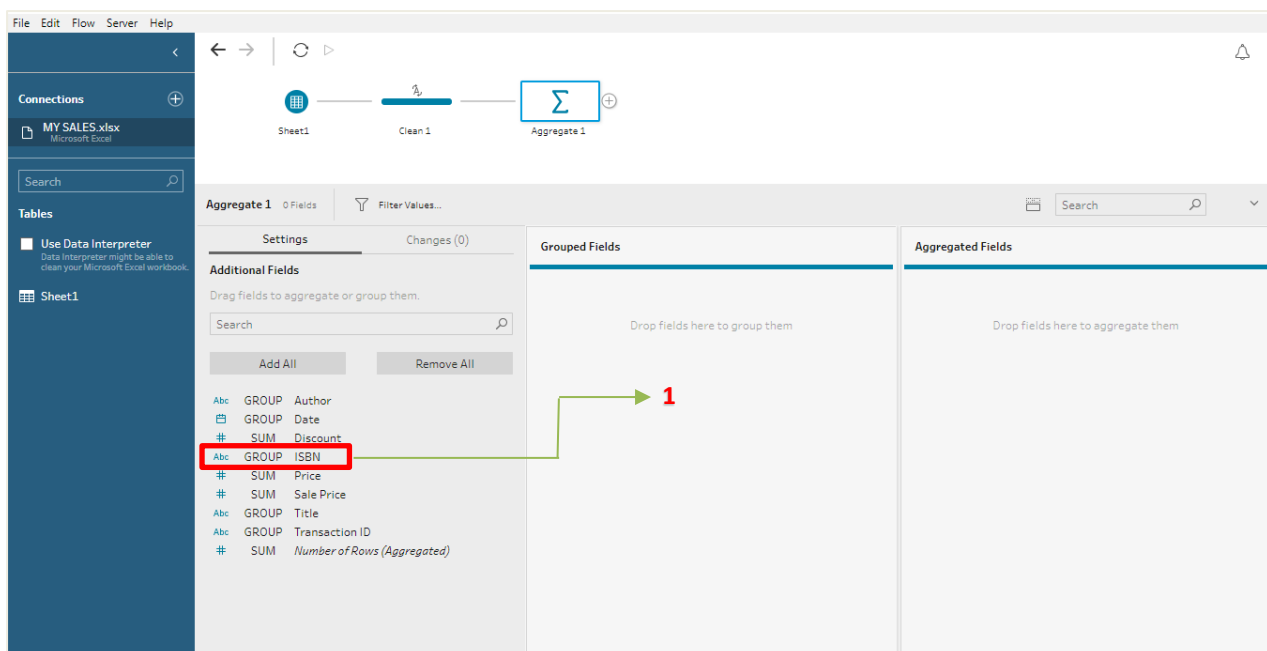
**Step 5:** **1** → Drag and Drop the “ISBN” field to the Grouped Fields area since it is more specific.

**2** → Drag and Drop “Transaction ID” to the Aggregated Fields area.

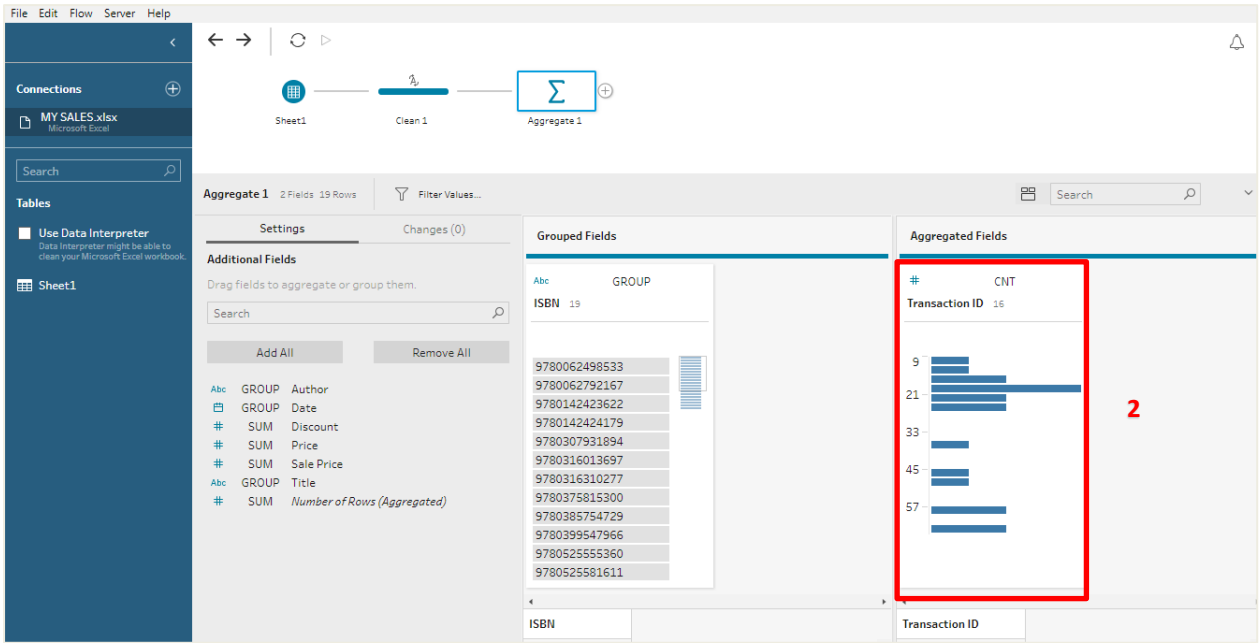
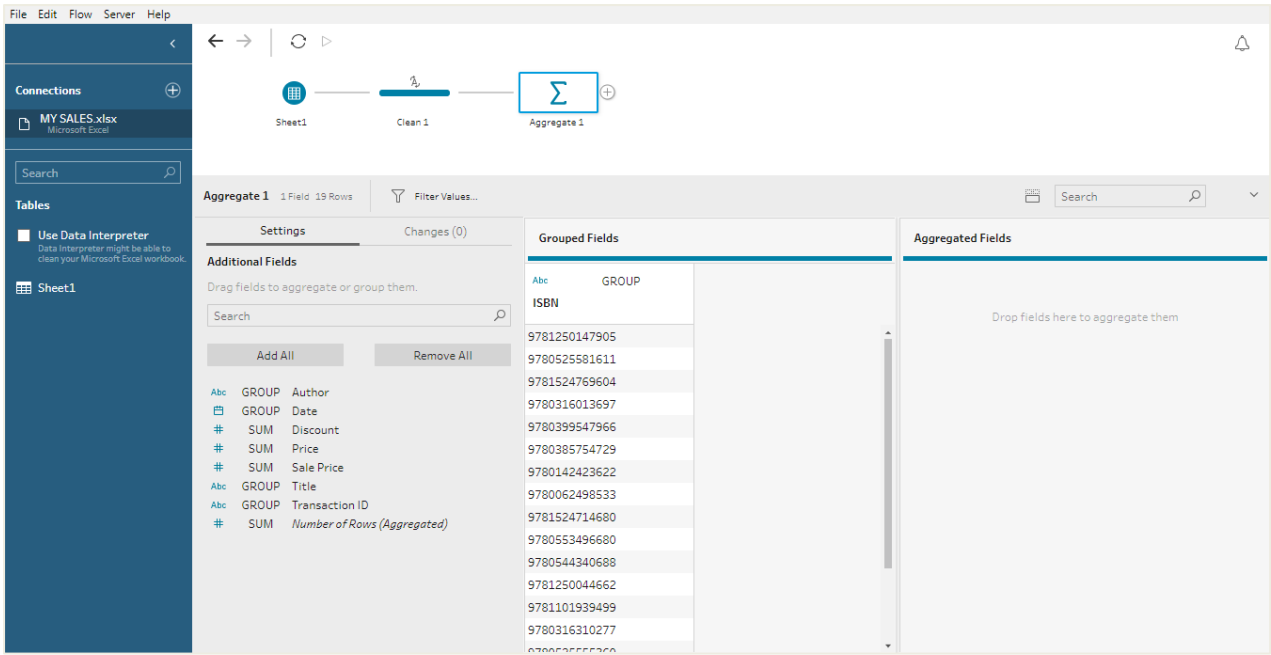
Transaction ID is of string data type, and the default aggregation is Count.

**3** → Drag Discount to Aggregated Fields area.

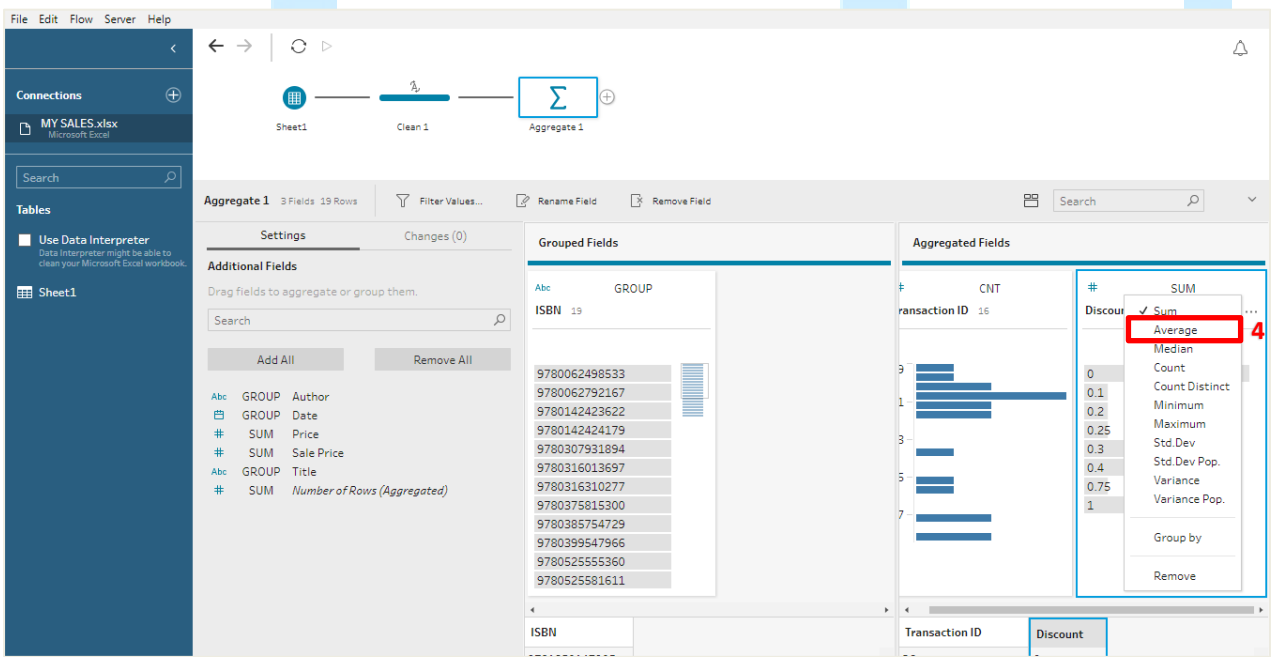
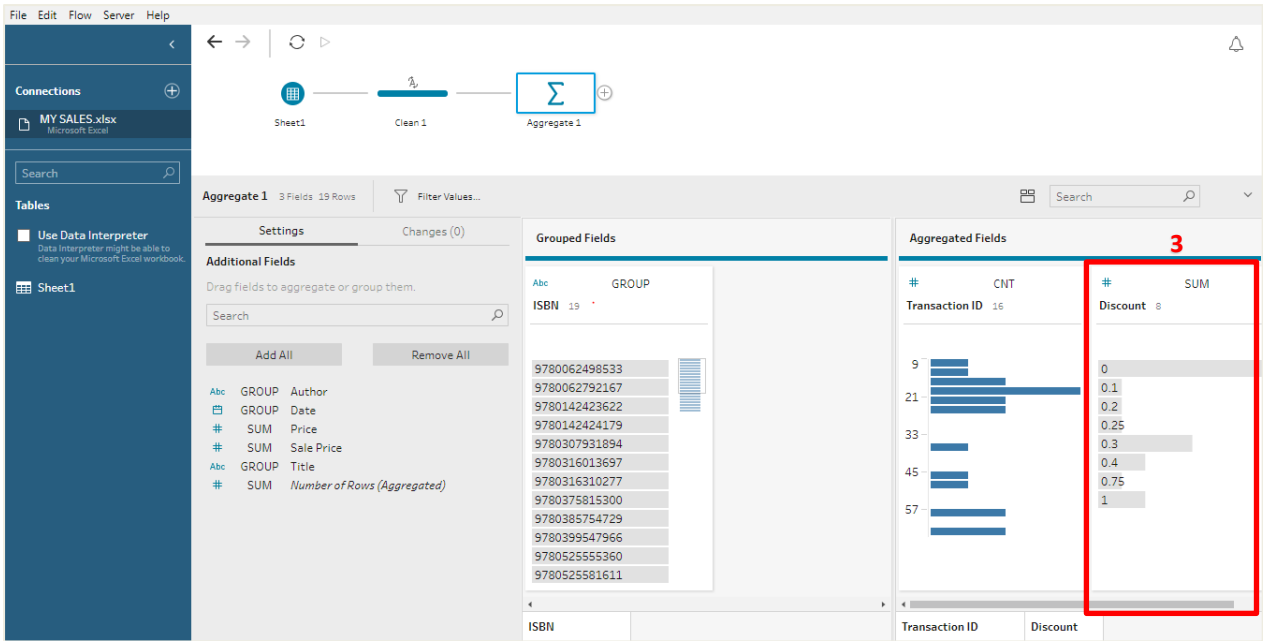
**4** → Default Aggregation is SUM. Change it to AVERAGE by selecting it from the Dropdown menu.



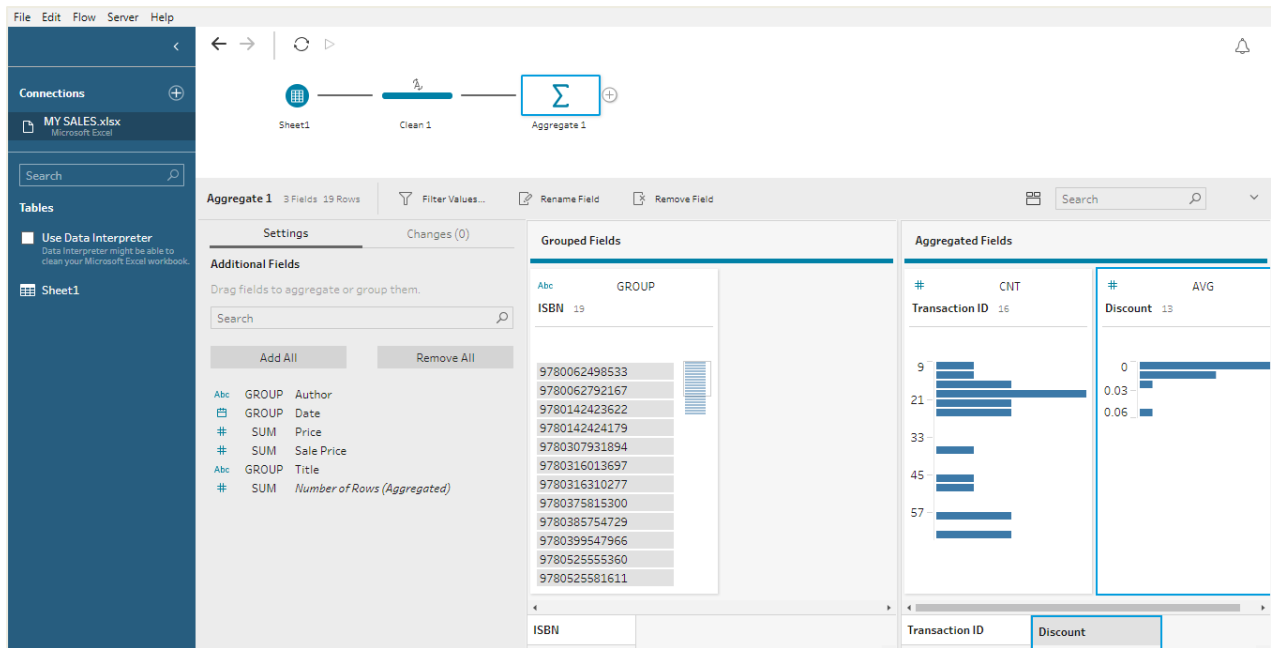
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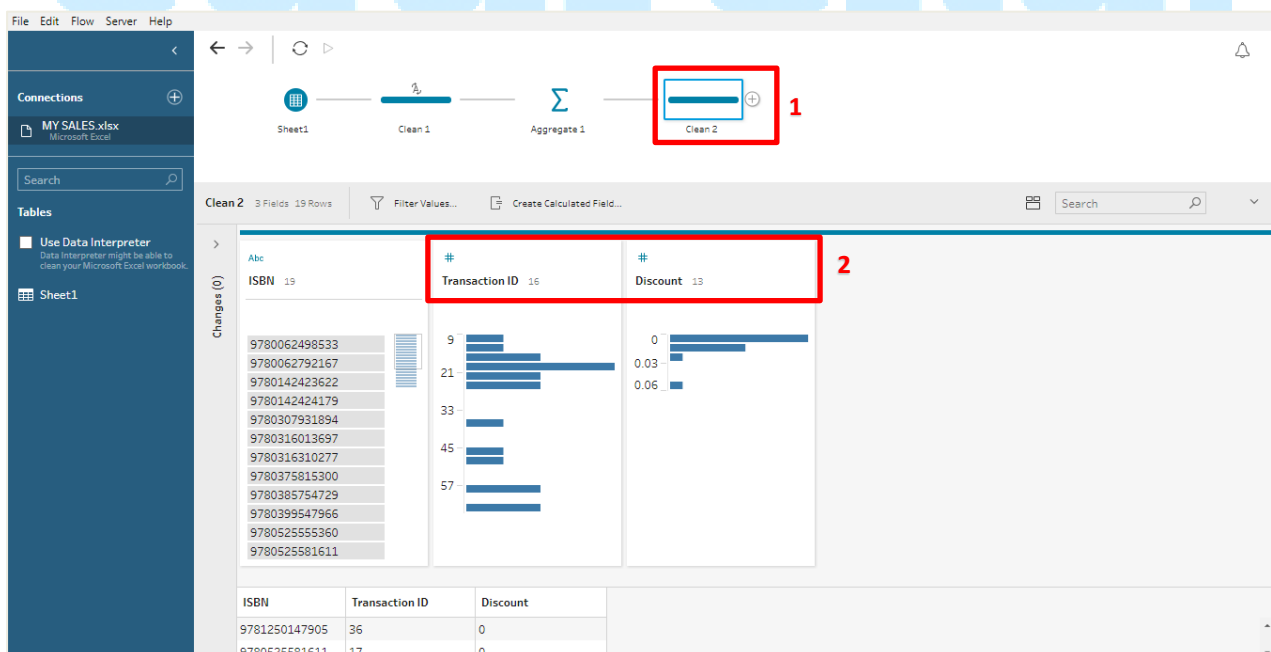


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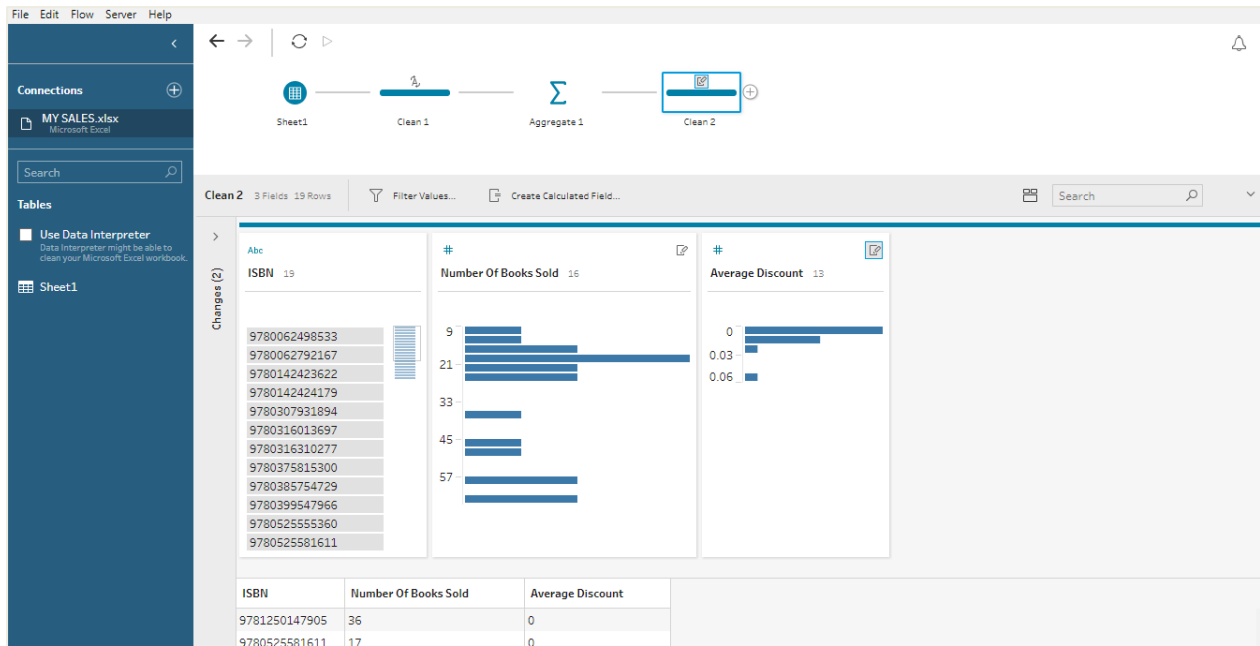


Step 6: **1** → Add a Cleaning step

**2** → Rename these fields







**Step 7:** 1 → Add a Cleaning step.

2 → Observe the Contextual bar. There are 3 fields and 19 rows.

3 → Click on the Aggregate step, drag and drop Title and Author to the Grouped fields.

We observe that it still shows 19 rows. These two fields did not change the granularity

of the data since they are already accounted for in the ISBN.

4 → Rename these fields

## Module 1- Data Preparation Using Tableau Prep

1

2

3

4

1

2

3

4

**Step 8:** 1 → Go to Aggregate step and drag and drop “Date” field.

2 → Observe the Contextual bar. We now have 121 rows since the granularity of what makes up a row now is Date and ISBN

3 → Go back to the original 3 fields and 19 rows

## Module 1- Data Preparation Using Tableau Prep

File Edit Flow Server Help

Connections: MY SALES.xlsx (Microsoft Excel)

Tables: Use Data Interpreter (Data Interpreter might be able to clean your Microsoft Excel workbook.)

Sheet1

Aggregate 1: 6 Fields 121 Rows

Grouped Fields 1

GROUP

Date 7

Title 18

Aggregated Fields

Transaction ID 17

Discount 13

1 Recommendation

Search

Settings

Changes (0)

Additional Fields

Drag fields to aggregate or group them.

Search

Add All Remove All

# SUM Price

# SUM Sale Price

# SUM Number of Rows (Aggregated)

02/01/2018 Dear Martin

02/02/2018 Every Day

02/03/2018 Everything, Everything

02/04/2018 One of Us Is Lying

02/05/2018 Renegades

02/06/2018 Salt to the Sea

02/07/2018 Simon vs. the Homo Sa...

The Absolutely True Di...

The Book of Dust: La B...

The Book Thief

The Cruel Prince

The Fault in Our Stars

1 0

5 0.04

9 0.08

13 0.12

17 0.16

21

Date Title

Transaction ID Discount

File Edit Flow Server Help

Connections: MY SALES.xlsx (Microsoft Excel)

Tables: Use Data Interpreter (Data Interpreter might be able to clean your Microsoft Excel workbook.)

Sheet1

Clean 2: 6 Fields 121 Rows

2

Filter Values...

Create Calculated Field...

1 Recommendation

Search

Changes (2)

Date 7

Title 18

Author 16

ISBN 19

Number Of Books Sold 17

02/01/2018 Dear Martin

02/02/2018 Every Day

02/03/2018 Everything, Everything

02/04/2018 One of Us Is Lying

02/05/2018 Renegades

02/06/2018 Salt to the Sea

02/07/2018 Simon vs. the Homo Sa...

The Absolutely True Di...

The Book of Dust: La B...

The Book Thief

The Cruel Prince

The Fault in Our Stars

Angie Thomas

Becky Albertalli

David Levithan

Holly Black

John Green

Karen M. McManus

Lois Lowry

Marie Lu

Marissa Meyer

Markus Zusak

Melissa Albert

Nic Stone

9780062498533

9780062792167

9780142423622

9780142424179

9780307931894

9780316013697

9780316310277

9780375815300

9780385754729

9780399547966

9780525555360

9780525581611

1 0

5 0.04

9 0.08

13 0.12

17 0.16

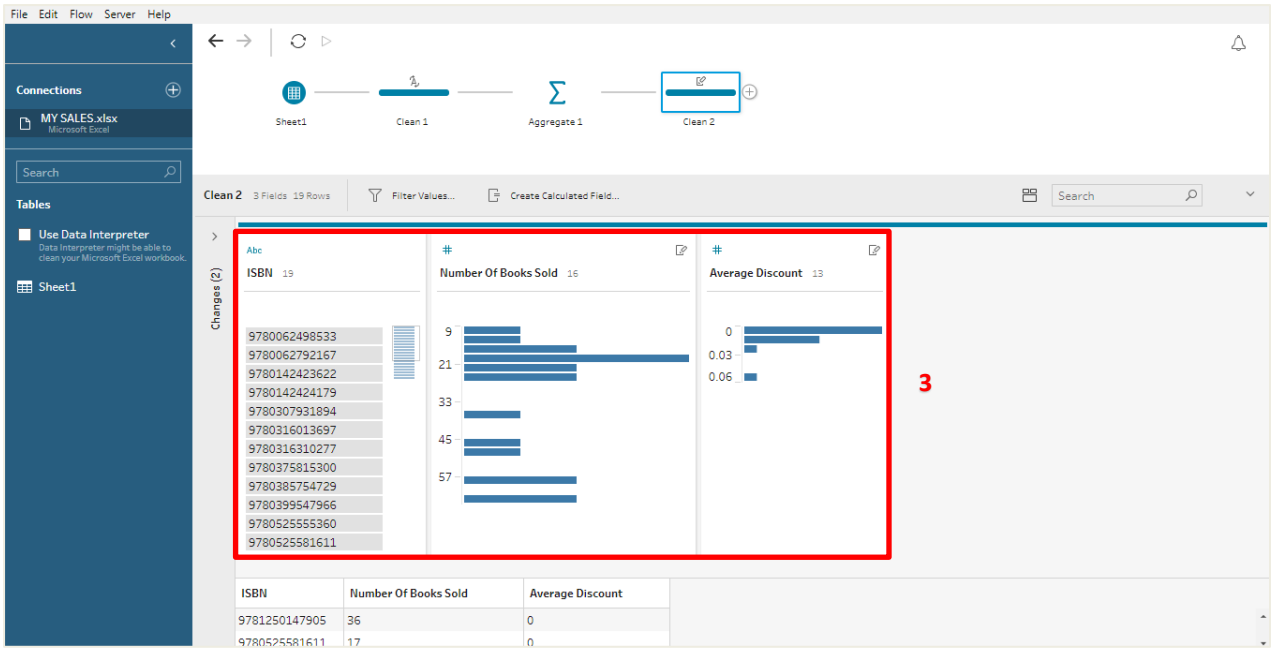
21

Date Title Author ISBN Number Of Books Sold Average Discount

02/06/2018 One of Us Is Lying Karen M. McManus 9781524714680 6 0.166666666666667

02/02/2018 Every Day David Levithan 9780307931894 1 0

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