Excel Data Cleaning & Preparation

- Remove Duplicates
- Remove blank spaces
- Remove blank rows
- Change cases
- Fix negative values
- Split data

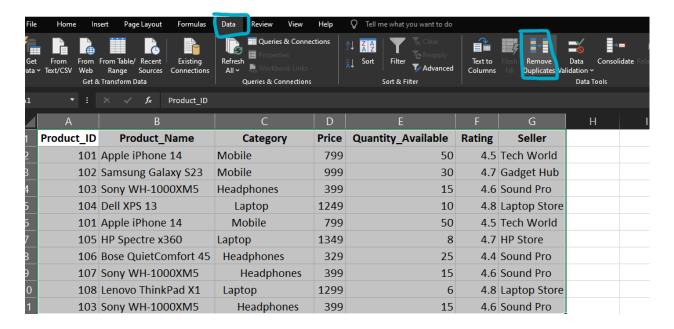
Remove Duplicates

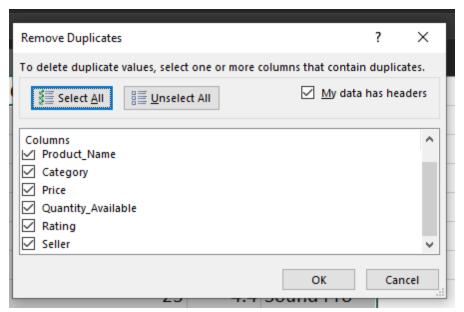
2 Scenarios:

- Entire row duplicate
- Duplicate cell → eg. Duplicate Mob No.

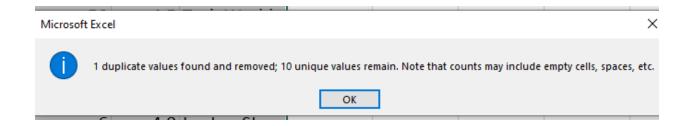
Steps:

- Select the cells
- Go to Data → Remove Duplicates

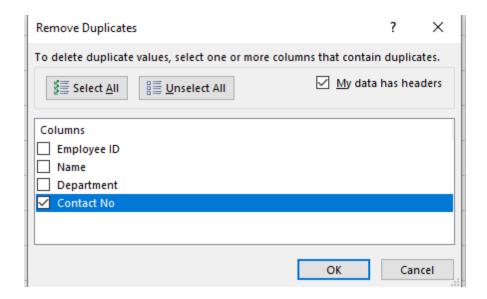


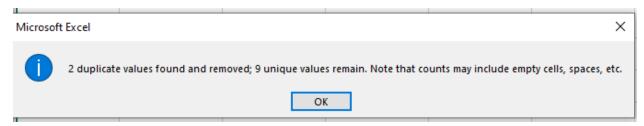


• If headers are present, keep the My data has headers box checked



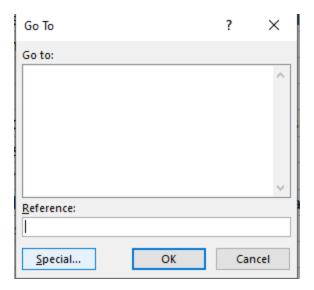
Remove Duplicate contact no.:



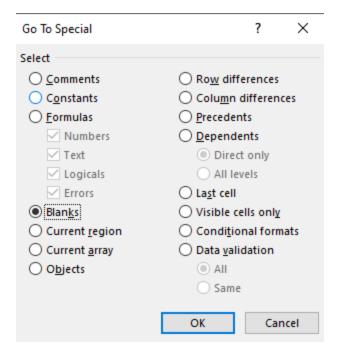


Remove Blank Rows

- Select all data
 - Ctrl + A A (Press A twice)
- Ctrl + G → Special



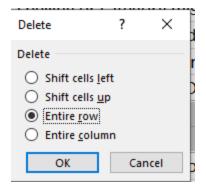
• click Blanks



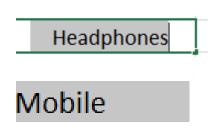
• It will select the blank rows

	_				
5 P0004	Product_4	Clothing	903.5	69	Let me know if you'd like further guidance on implementing these steps!
6					
7					
8 P0005	Product_5	Furniture	352.9	87	Use conditional formatting to highlight outliers or filter using IF formulas or slicers.
9 P0006	Product_6	ElecTronics	549.18	31	Correct spelling or category mismatches (e.g., "Laptops" vs. "Laptop").
10 P0007	Product_7	FOOD	222.56	59	Ensure consistent case for Product_Name (e.g., capitalize each word).
11 P0008	Product_8	Electronics	969.7	78	Fill missing values with appropriate replacements (e.g., average price or a placeholder
12 P0009	Product_9	Stationery	321.88	92	In Excel, go to Data > Remove Duplicates.
13					
14					
15 P0010	Product_10	FOOD	230.28	-5	Identify duplicate rows based on Product_ID or Product_Name.
16 P0011	Product_11	FOOD	763.66	22	Use Data Validation under the Data tab to restrict input types.
17 P0012	Product_12	Electronics	368.76	45	Ensure Price and Quantity_Available are numeric, and Rating is a decimal.
18 P0013	Product_13	StationeRY	669.92	87	Highlight unnecessary columns and delete them or hide them if required for later use
19 P0014	Product_14	FOOD	914.74	-1	Let me know if you'd like further guidance on implementing these steps!
20 P0015	Product_15	Stationery	137.79	78	Use conditional formatting to highlight outliers or filter using IF formulas or slicers.
21 P0016	Product_16	Furniture	840.84	39	Correct spelling or category mismatches (e.g., "Laptops" vs. "Laptop").
22					
23					
24					
25 P0017	Product_17	StationeRY	784.71	96	Ensure consistent case for Product_Name (e.g., capitalize each word).
DO019	Droduct 19	Floctronics	522 75	51	Eill missing values with appropriate replacements to a superage price or a placeholder

- Then press → Ctrl + -
 - Entire row



Remove blank spaces



=TRIM()

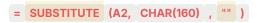
Unbreakable Space

• **TRIM()** does not work for unbreakable space

Use =SUBSTITUTE(



Unbreakable space → CHAR(160)



• $\frac{1}{2}$ single quote will not work

Fix Letter Case



$\mathsf{USE} \to = \mathsf{PROPER()}$

Category	Proper
ElecTronics	=PROPER(C2)
Electronics	PROPER(text)

Category	Proper	
ElecTronics	Electronics	
Electronics	Electronics	
FOOD	Food	
Clothing	Clothing	
Furniture	Furniture	
ElecTronics	Electronics	
FOOD	Food	
Electronics	Electronics	
Stationery	Stationery	
FOOD	Food	
FOOD	Food	
Electronics	Electronics	
StationeRY	Stationery	
FOOD	Food	
Stationery	Stationery	

ajit Das	Ajit Das	:
vijay singh	Vijay Singh	
ANIL VERMA	Anil Verma	

AII CAPS

UPPER()

all small

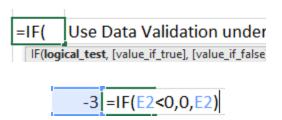
LOWER()

Remove Formula after we adjust the case:

- · Select the row
- Copy
- Paste values
 - Alt + H +V +V

Fix negative values

=IF()



- \(\frac{1}{2} \) If the value is less than 0 (\(\frac{Value < 0}{2} \) , return 0
 - Else: Return the value

-3	0
40	40
26	26
69	69
87	87
31	31
59	59
78	78
92	92
-5	0
22	22
45	45
87	87
-1	0
78	78

Formula to convert **Negative** → **Positive**

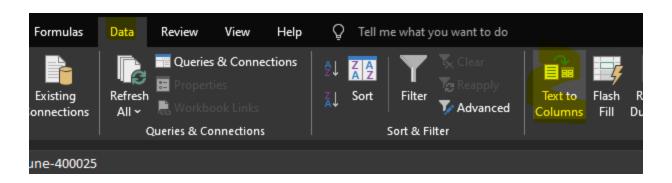
-E2 → Double negative becomes positive

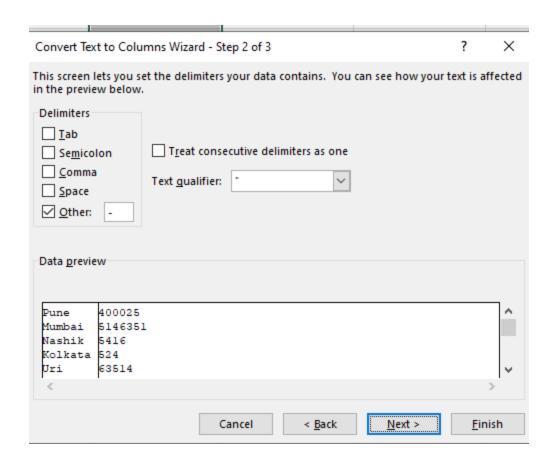
-3	3
40	40
26	26
69	69
87	87
31	31
59	59
78	78
92	92
-5	5

Split Data/Flash fill

Method 1:

- Use text to columns
- · Give delimiter



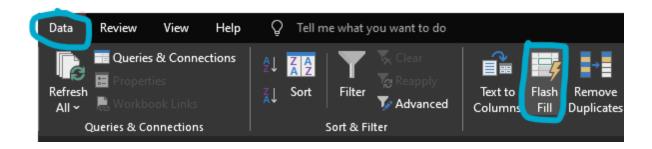


Pune	40002
Mumbai	514635
Nashik	541
Kolkata	52
Uri	6351
Puri	653
Bhaji	6534
Yuvi	65
Rays	65

Method 2:

- Copy & Paste **Pune**
- <u>Ctrl + E</u>
- 👆 Flash fill
- It'll auto fill the column with respected cities

Pune-400025	Pune	
Mumbai-5146351	Mumbai	F
Nashik-5416	Nashik	
Kolkata-524	Kolkata	
Uri-63514	Uri	
Puri-6534	Puri	
Bhaji-65341	Bhaji	
Yuvi-654	Yuvi	
Rays-654	Rays	



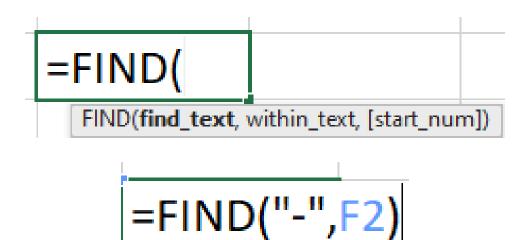
Things we can do with Ctrl + E

- CAPS → small
 - Or any case
- Extract number/text
- Combining Data
 - If you have columns for First Name and Last Name (e.g., "John" and "Smith") and want to combine them into Full Name (e.g., "John Smith"), type the first combined name in the first row, and then press Ctrl + E.
 - Excel will automatically combine the other rows in the same way.
- Extracting Data (Substrings)
- Formatting Numbers
 - Flash Fill can be used to add specific formatting to numbers (e.g., adding dashes to phone numbers or currency symbols).

Example:

If you have a column with **phone numbers** (e.g., "5551234567") and want to format them as "(555) 123-4567", type the formatted version in the next column, and then press Ctrl + E to apply the pattern to the rest of the numbers.

FIND()



• 👆 Find -

Pune-400025	5
Mumbai-5146351	7
Nashik-5416	7
Kolkata-524	8
Uri-63514	4
Puri-6534	5
Bhaji-65341	6
Yuvi-654	5
Rays-654	5

LEFT()

• Returns the **leftmost characters** from a text string, based on the number of characters you specify.

LEFT(text, [num_chars])

- text: The text string or cell reference containing the text you want to extract from.
- num_chars (optional): The number of characters you want to extract from the left. If omitted, it defaults to 1.

Example:

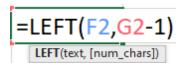
- LEFT("Hello", 2) will return "He".
- LEFT(A1, 3) will extract the first 3 characters from the value in cell A1.



Here, 5 is the position of -



• To remove the -, add -1



OR

• Without adding an additional column:

Mumbai-5146351 7 Mumba Nashik-5416 7 Nashik Kolkata-524 8 Kolkata	
Kolkata-524 8 Kolkata	i
Uri-63514 4 Uri	
Puri-6534 5 Puri	
Bhaji-65341 6 Bhaji	
Yuvi-654 5 Yuvi	
Rays-654 5 Rays	

RIGHT()

• We'll need LEN()

	Hyphen Position	Total LENGTH
Pune-400025	5	=LEN(F2
1 4110 100025	3	

G	Н	1
Hyphen Position	Total LENGTH	Len - Hyphen
5	11	=H2- <mark>G2</mark>

F	G	Н	I
	Hyphen Position	Total LENGTH	Len - Hyphen
Pune-400025	5	11	6
Mumbai-5146351	7	14	7
Nashik-5416	7	11	4
Kolkata-524	8	11	3
Uri-63514	4	9	5
Puri-6534	5	9	4
Bhaji-65341	6	11	5
Yuvi-654	5	8	3
Rays-654	5	8	3

• Highlighted column is the characters on right side of hyphen

Now apply the **RIGHT()** Formula

F	G	Н		J
	Hyphen Position	Total LENGTH	Len - Hyphen	
Pune-400025	5	11	6	=RIGHT(F2, <mark>I2</mark>)
Mumbai E1/62E1	7	1 /	7	RIGHT(text, [num_chars])

OR

• You can directly apply the formula without adding 2 columns

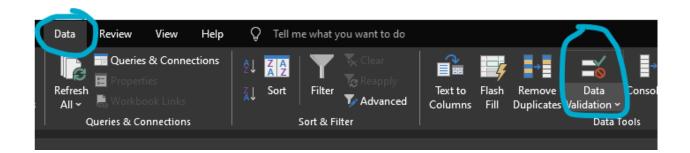
F	G	Н	I	J	K	L
	Hyphen Position	Total LENGTH	Len - Hyphen			
Pune-400025	5	11	6	=RIGHT(F2,LEI	N <mark>(F2)</mark> -FIND("-",	F2))

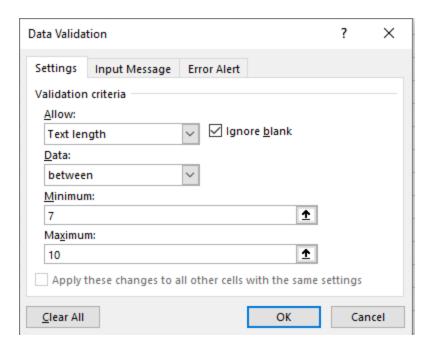
F	G	Н	I	J
	Hyphen Position	Total LENGTH	Len - Hyphen	
Pune-400025	5	11	6	400025
Mumbai- <mark>5146351</mark>	7	14	7	5146351
Nashik-5416	7	11	4	5416
Kolkata- <mark>524</mark>	8	11	3	524
Uri- <mark>63514</mark>	4	9	5	63514
Puri- <mark>6534</mark>	5	9	4	6534
Bhaji- <mark>65341</mark>	6	11	5	65341
Yuvi- <mark>654</mark>	5	8	3	654
Rays-654	5	8	3	654

Data Validation

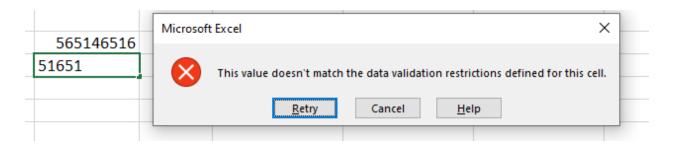
Task: Find out mob no. outside the rage of 7 to 10 digits

Data tab → Data validation





• If you try to enter a number outside this range, it'll throw an error



- here, it's now showing what's the condition.
- You can enter an error alert

