

Introduction to MS Excel(Part-I)

<https://github.com/KrishnaMentor/CN-Weekend>

SESSION OBJECTIVES









- ✓ Understand how Excel is used in Data Analytics.
- ✓ Navigate the Excel interface and its key parts.
- ✓ Perform essential operations like sorting, freezing, filtering, paste special, etc.
- ✓ Use shortcuts, understand basic formatting, and work with real data.
- ✓ Use conditional formatting effectively.
- ✓ Understand cell referencing (relative & absolute).
- ✓ Apply essential Excel functions (SUM, AVERAGE, IF, etc.).



WHY EXCEL FOR DATA ANALYTICS?

Microsoft Excel is like the Swiss Army knife of analytics — simple, powerful, and everywhere!

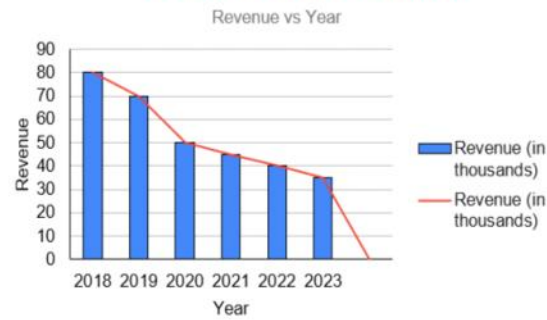
Benefits of Using Excel:

-  Easy to Use — Intuitive for beginners
-  Familiar — Used in schools, jobs, and homes
-  Versatile — Formulas, charts, macros, pivot tables
-  Import & Export — From/to databases, CSV, websites
-  Clean & Transform — Remove duplicates, format data, fill gaps
-  Visualize — Charts, conditional formatting
-  Integrated — With Word, PowerPoint, Outlook
-  Cost-effective — Already part of the MS Office Suite

Table

Year	Revenue (in thousands)
2018	80
2019	70
2020	50
2021	45
2022	40
2023	35

Visual [Combo Chart]



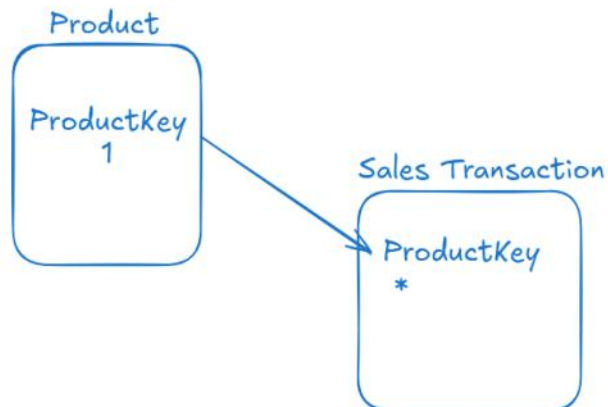
Primary Key

-> Unique + NOT NULL
[No Duplicates]

TABLE 1				TABLE 2				
n id	date	n quantity	Store ID	Transaction ID	Store ID	Store Location	Unit price	Category
1	2-5-2023	2	2	1	2	Haryana	60	Tea
2	4-7-2023	1	5	2	5	Haryana	100	Coffee
3	8-8-2023	3	6	3	6	Haryana	50	Bakery
4	1-9-2023	2	5	4	5	Haryana	100	Coffee

ID	Store ID	date	quantity	Store Location	Unit price	Category
1	2	2-5-2023	2	Haryana	60	Tea
2	5	4-7-2023	1	Haryana	100	Coffee
3	6	8-8-2023	3	Haryana	50	Bakery
4	5	1-9-2023	2	Haryana	100	Coffee

Merging table 1 and table 2 with the help of two common variables i.e. Transaction ID and Store ID



P.K Product [Unique]

1	- Activa
2	- Jupiter
3	- Dio
4	- Ola
5	- Access

Static

1 : Many Relationship

Sales Transaction

Customer1	- 1 - Activa
Customer2	- 1 - Activa
Customer3	- 1 - Activa
Customer4	- 1 - Activa
Customer5	- 2 - Jupiter
Customer6	- 3 - Dio

Foreign Key

To Join Product Table having all unique product -> Connects with Sales Table having repeated values

INTEGER/NUMERICAL VALUE

ID	Store ID
1	2
2	5
3	6
4	5

DATE FORMAT

date
2-5-2023
4-7-2023
8-8-2023
1-9-2023

INTEGER VALUE

quantity
2
1
3
2

TEXT/STRING VALUES

Store Location
Gurugram, Haryana
Gurugram, Haryana
Gurugram, Haryana
Gurugram, Haryana

INTEGER FORMAT

Unit price
60
100
50
100

TEXT FORMAT

Category
Tea
Coffee
Bakery
Coffee

Defining the data types of each column after merging both the tables

ID	Store ID	date	quantity	Location	Unit price	Category
1	2	2-5-2023	2	Haryana	60	Tea
2	5	4-7-2023	1	Haryana	100	Coffee
3	6	8-8-2023	3	Haryana	50	Bakery
4	5	1-9-2023	2	Haryana	100	Coffee
5	2	16-11-2023	NA	NA	50	Bakery
6	7	06-09-2023	1	NA	60	NA

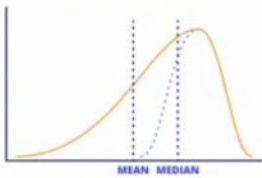
Table with missing values (represented as NA in yellow colour)

Transaction ID	Store ID	Transaction date	Transaction quantity	Store Location	Unit price	Product Category
1	2	2-5-2023	2	Gurugram, Haryana	60	Tea
2	5	4-7-2023	1	Gurugram, Haryana	100	Coffee
3	6	8-8-2023	3	Gurugram, Haryana	50	Bakery
4	5	1-9-2023	2	Gurugram, Haryana	100	Coffee
5	7	23-09-2023	100	Gurugram, Haryana	60	Tea

In the transaction quantity column, transaction ID is an outlier

Right-Skewed vs. Left-Skewed

LEFT NEGATIVE SKEW



POSITIVE SKEW RIGHT



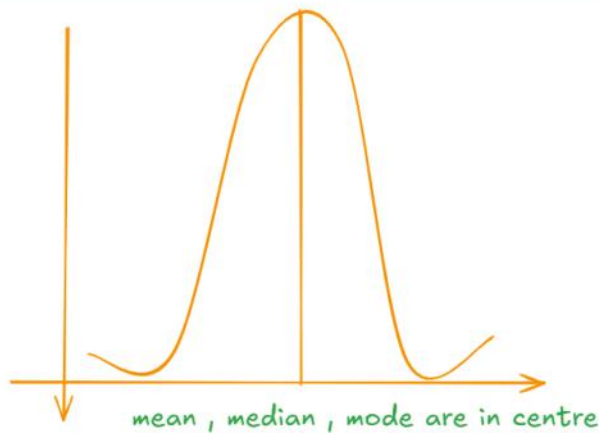
Mean >> deviate more >> Outliers

$$(5^{\text{th}} + 6^{\text{th}}) = (50 + 60) / 2 = 55$$

10 20 30 40 50 60 70 80 90 100 1000

Mean = 55
Median = 55

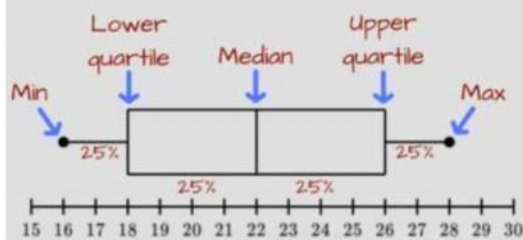
Mean = 141
Median = 60



BOX - WHISKER - PLOT

Best Visual to identify outliers.

Box & Whisker Plot



Transaction ID	Store ID	Transaction date	Transaction quantity
1	2	2-5-2023	2
2	5	4-7-2023	1
3	6	8-8-2023	3
4	5	1-9-2023	2

Store Location	City	State
Gurugram, Haryana	Gurugram	Haryana
Gurugram, Haryana	Gurugram	Haryana
Gurugram, Haryana	Gurugram	Haryana
Gurugram, Haryana	Gurugram	Haryana

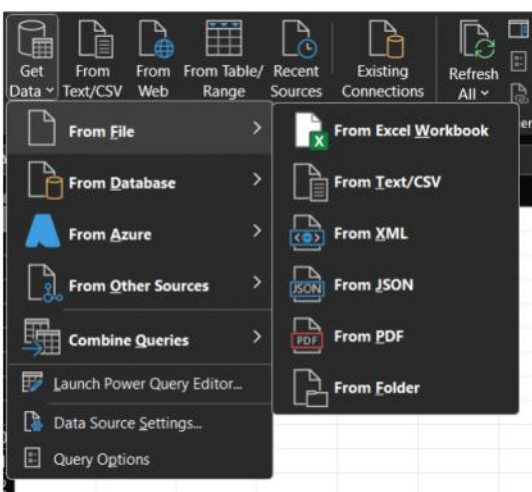
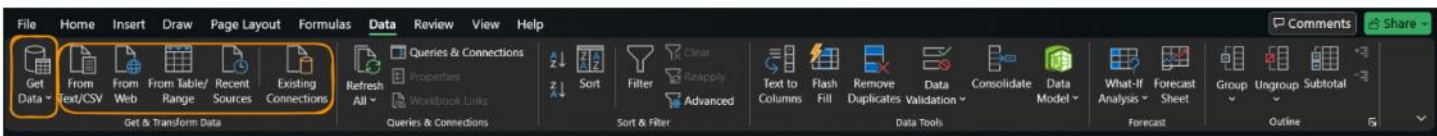
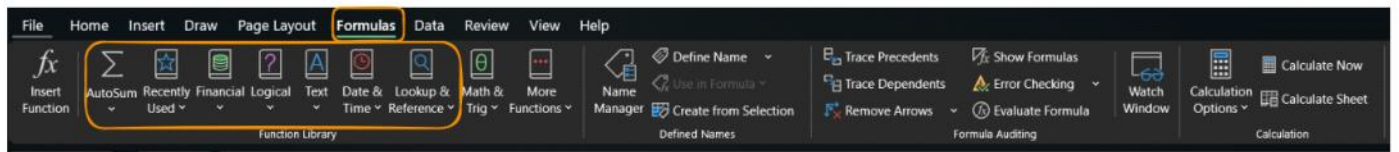
Unit price	Product Category
60	Tea
100	Coffee
50	Bakery
100	Coffee

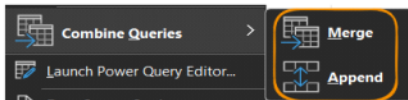
Bold borders represents the cleaned string characters on the store location

Separator - "," -> that splits the value into 2 columns

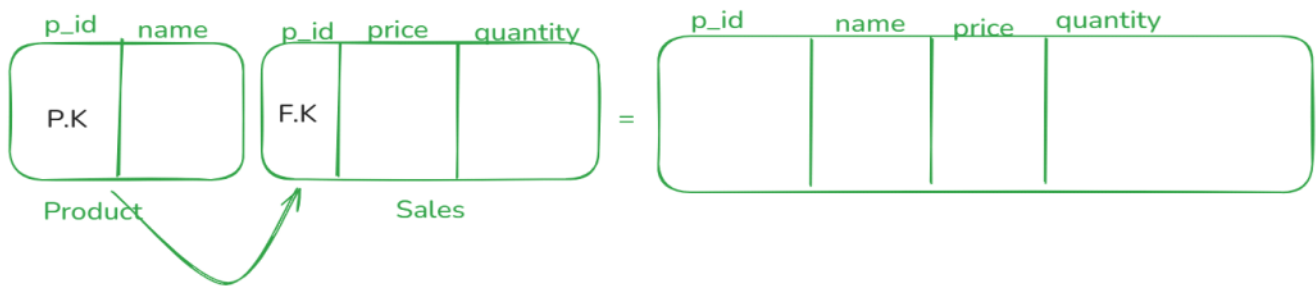
Excel Interface

Home Ribbon



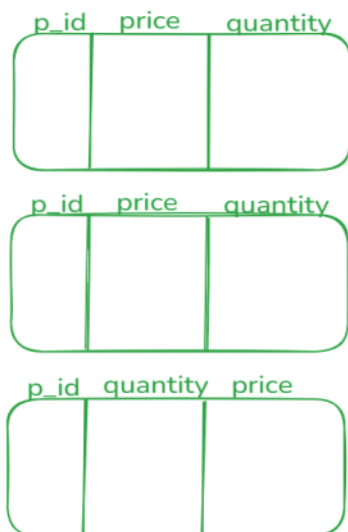
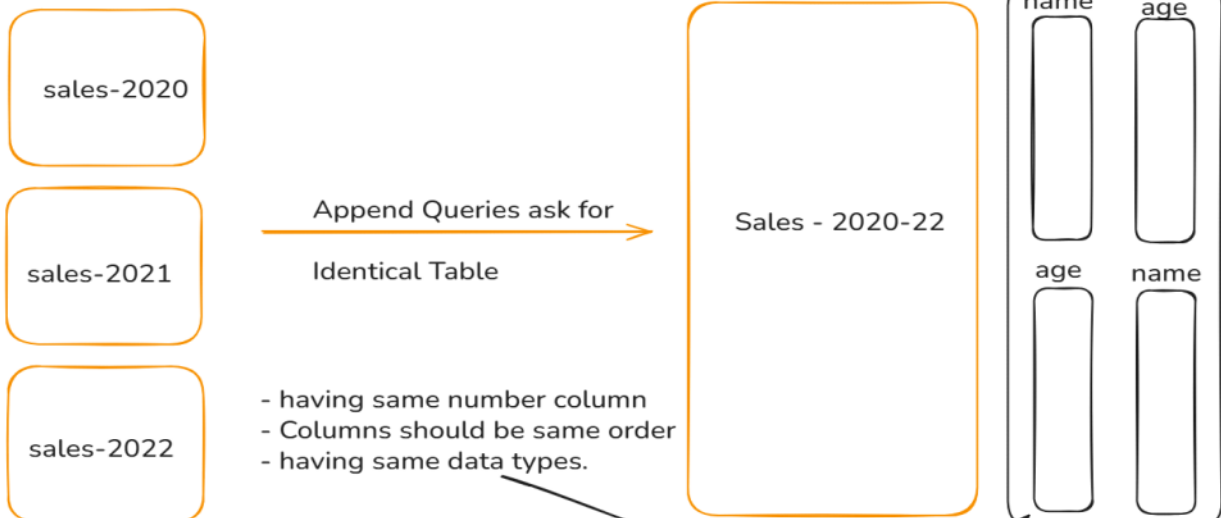


MERGE TABLE [Expanding the Columns -> Horizontal]



Append Queries

- It is expanding vertically to add number of rows.



Nature of an Alignment

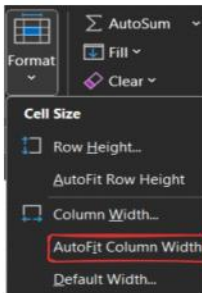
Text	Krishna
Number	11
Date	25-05-2025
Currency	\$ 7,00,000

Text - Left
Numbers - Right

Work Book

combination of multiple work sheets.

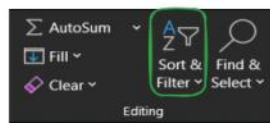
Sheet1 | Sheet2 | Sheet3



City	Year	Sport	Discipline	Athlete	Gender	Country_Code	Country	Event_gender	Medal
Montreal	1976	Aquatics	Diving	KÖHLER, Christa	Women	GDR	East Germany	W	Silver
Montreal	1976	Aquatics	Diving	KOSENKOV, Aleksandr	Men	URS	Soviet Union	M	Bronze
Montreal	1976	Aquatics	Diving	BOGGS, Philip George	Men	USA	United States	M	Gold
Montreal	1976	Aquatics	Diving	CAGNOTTO, Giorgio Franco	Men	ITA	Italy	M	Silver
Montreal	1976	Aquatics	Diving	WILSON, Deborah Keplar	Women	USA	United States	W	Bronze
Montreal	1976	Aquatics	Diving	LOUGANIS, Gregory	Men	USA	United States	M	Silver
Montreal	1976	Aquatics	Diving	VAYTSEKHOVSKAYA, Elena	Women	URS	Soviet Union	W	Gold
Montreal	1976	Aquatics	Diving	POTTER-MCINGVALE, Cynthia	Women	USA	United States	W	Bronze
Montreal	1976	Aquatics	Diving	DIBIASI, Klaus	Men	ITA	Italy	M	Gold
Montreal	1976	Aquatics	Diving	ALEINIK, Vladimir	Men	URS	Soviet Union	M	Bronze
Montreal	1976	Aquatics	Diving	KNAPE-LINDBERGH, Ulrika	Women	SWE	Sweden	W	Silver
Montreal	1976	Aquatics	Diving	CHANDLER, Jennifer Kay	Women	USA	United States	W	Gold
Montreal	1976	Aquatics	Swimming	BABASHOFF, Shirley Farber	Women	USA	United States	W	Gold
Montreal	1976	Aquatics	Swimming	SHAW, Timothy Andrew	Men	USA	United States	M	Silver
Montreal	1976	Aquatics	Swimming	PRIEMER, Petra	Women	GDR	East Germany	W	Silver
Montreal	1976	Aquatics	Swimming	HOLLAND, Stephen	Men	AUS	Australia	M	Bronze
Montreal	1976	Aquatics	Swimming	SMIRNOV, Andrei	Men	URS	Soviet Union	M	Bronze
Montreal	1976	Aquatics	Swimming	ANKE, Hannelore	Women	GDR	East Germany	W	Gold
Montreal	1976	Aquatics	Swimming	BABASHOFF, Shirley Farber	Women	USA	United States	W	Silver

Operations IN Excel

1. Basic Features - Sorting.



[90K,20K,50K,100K]


salary
20000
34000
50000
50000
60000
70000
85000
90000
95550
113000
123000
135000
137141
150000
161342
167000
200000
200000
225000
260000

work_year	experience_level	employment_type	job_title	salary	salary_currency	employee_residence	remote_ratio	company_location	company_size
2020	MI	FT	Data Scientist	70000	EUR	DE	0	DE	L
2020	SE	FT	Machine Learning Scientist	260000	USD	JP	0	JP	S
2020	SE	FT	Big Data Engineer	85000	GBP	GB	50	GB	M
2020	MI	FT	Product Data Analyst	20000	USD	HN	0	HN	S
2020	SE	FT	Machine Learning Engineer	150000	USD	US	50	US	L
2021	EN	FT	Machine Learning Scientist	225000	USD	US	100	US	L
2021	MI	FT	Data Scientist	50000	USD	NG	100	NG	L
2021	MI	FT	Data Science Engineer	34000	EUR	GR	100	GR	M
2021	EN	FT	Data Analyst	90000	USD	US	100	US	S
2021	MI	FT	Data Engineer	200000	USD	US	100	US	L
2021	MI	FT	Big Data Engineer	60000	USD	ES	50	RO	M
2021	SE	FT	Principal Data Engineer	200000	USD	US	100	US	M
2021	EN	FT	Data Analyst	50000	USD	US	100	US	M
2022	SE	FT	Data Scientist	95550	USD	US	0	US	M
2022	SE	FT	Data Engineer	113000	USD	US	0	US	L
2022	SE	FT	Data Analyst	135000	USD	US	100	US	M
2022	SE	FT	Data Science Manager	161342	USD	US	100	US	M
2022	SE	FT	Data Science Manager	137141	USD	US	100	US	M
2022	SE	FT	Data Scientist	167000	USD	US	100	US	M
2022	SE	FT	Data Scientist	123000	USD	US	100	US	M

↓ Largest To Smallest


work_year	experience_level	employment_type	job_title	salary	salary_currency	employee_residence	remote_ratio	company_location	company_size
2020	SE	FT	Machine Learning Scientist	260000	USD	JP	0	JP	S
2021	EN	FT	Machine Learning Scientist	225000	USD	US	100	US	L
2021	MI	FT	Data Engineer	200000	USD	US	100	US	L
2021	SE	FT	Principal Data Engineer	200000	USD	US	100	US	M
2022	SE	FT	Data Scientist	167000	USD	US	100	US	M
2022	SE	FT	Data Science Manager	161342	USD	US	100	US	M
2020	SE	FT	Machine Learning Engineer	150000	USD	US	50	US	L
2022	SE	FT	Data Science Manager	137141	USD	US	100	US	M
2022	SE	FT	Data Analyst	135000	USD	US	100	US	M
2022	SE	FT	Data Scientist	123000	USD	US	100	US	M
2022	SE	FT	Data Engineer	113000	USD	US	0	US	L
2022	SE	FT	Data Scientist	95550	USD	US	0	US	M
2021	EN	FT	Data Analyst	90000	USD	US	100	US	S
2020	SE	FT	Big Data Engineer	85000	GBP	GB	50	GB	M
2020	MI	FT	Data Scientist	70000	EUR	DE	0	DE	L
2021	MI	FT	Big Data Engineer	60000	USD	ES	50	RO	M
2021	MI	FT	Data Scientist	50000	USD	NG	100	NG	L
2021	EN	FT	Data Analyst	50000	USD	US	100	US	M
2021	MI	FT	Data Science Engineer	34000	EUR	GR	100	GR	M
2020	MI	FT	Product Data Analyst	20000	USD	HN	0	HN	S


Freezing Pane





Split
View Side by Side

☒ Hide
☐ Unhide

 Synchronous Scrolling
Reset Window Position


Unfreeze Panes
Unlock all rows and columns to scroll through the entire worksheet.

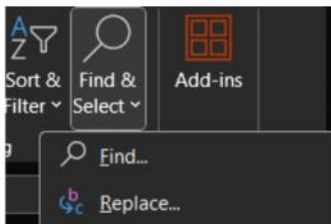

Freeze Top Row
Keep the top row visible while scrolling through the rest of the worksheet.


Freeze First Column
Keep the first column visible while scrolling through the rest of the worksheet.

1	A	B	C	D	E	F	G	H	I	J
1	City	Year	Sport	Discipline	Athlete	Gender	Country_Code	Country	Event_gender	Medal
2	Montreal	1976	Aquatics	Diving	KÖHLER, Christa	Women	GDR	East Germany	W	Silver
3	Montreal	1976	Aquatics	Diving	KOSENKOV, Aleksandr	Men	URS	Soviet Union	M	Bronze
4	Montreal	1976	Aquatics	Diving	BOGGS, Phillip George	Men	USA	United States	M	Gold
5	Montreal	1976	Aquatics	Diving	CAGNOTTO, Giorgio Franco	Men	ITA	Italy	M	Silver
6	Montreal	1976	Aquatics	Diving	WILSON, Deborah Keplar	Women	USA	United States	W	Bronze
7	Montreal	1976	Aquatics	Diving	LOUGANIS, Gregory	Men	USA	United States	M	Silver
8	Montreal	1976	Aquatics	Diving	VAYTSEKHOVSKAYA, Elena	Women	URS	Soviet Union	W	Gold
9	Montreal	1976	Aquatics	Diving	POTTER-MCINGVALE, Cynthia	Women	USA	United States	W	Bronze
10	Montreal	1976	Aquatics	Diving	DIBIASI, Klaus	Men	ITA	Italy	M	Gold
11	Montreal	1976	Aquatics	Diving	ALEINIK, Vladimir	Men	URS	Soviet Union	M	Bronze
12	Montreal	1976	Aquatics	Diving	KNAPE-LINDBERGH, Ulrika	Women	SWE	Sweden	W	Silver
13	Montreal	1976	Aquatics	Diving	CHANDLER, Jennifer Kay	Women	USA	United States	W	Gold
14	Montreal	1976	Aquatics	Swimming	BABASHOFF, Shirley Farber	Women	USA	United States	W	Gold
15	Montreal	1976	Aquatics	Swimming	SHAW, Timothy Andrew	Men	USA	United States	M	Silver
16	Montreal	1976	Aquatics	Swimming	PRIEMER, Petra	Women	GDR	East Germany	W	Silver
17	Montreal	1976	Aquatics	Swimming	HOLLAND, Stephen	Men	AUS	Australia	M	Bronze
18	Montreal	1976	Aquatics	Swimming	SMIRNOV, Andrei	Men	URS	Soviet Union	M	Bronze
19	Montreal	1976	Aquatics	Swimming	ANKE, Hannelore	Women	GDR	East Germany	W	Gold
20	Montreal	1976	Aquatics	Swimming	BABASHOFF, Shirley Farber	Women	USA	United States	W	Silver

C2 -> It will A&B Column & 1 in the row

Find & Replace



Find and Replace

Find Replace

Find what: No Format Set Format...

Replace with: No Format Set Format...

Within: Sheet ☐ Match case

Search: By Rows ☐ Match entire cell contents

Look in: Formulas Options <<

Replace All Replace Find All Find Next Close

Find and Replace

Find Replace

Find what: USD No Format Set Format...

Replace with: IND No Format Set Format...

Within: Sheet ☐ Match case

Search: By Rows ☐ Match entire cell contents

Look in: Formulas Options <<

Replace All Replace Find All Find Next Close

Microsoft Excel

All done. We made 17 replacements.

OK

Paste Specials

70000
260000
85000
20000
150000
225000
50000
34000
90000
200000
60000
200000
50000
95550
113000
135000
161342
137141
167000
123000

Paste

-
-
-

Paste Values

-

Other Paste Options

-

(Ctrl) ▾

Transpose - Converting row into column and vice versa

Clear ▾ Filter ▾ Select ▾

Clear All

Clear Formats

Format Painter

Filters

Get Data ▾ From Text/CSV From Web From Table/Range Recent Sources Existing Connections Refresh All ▾ Queries & Connections Properties Workbook Links Sort & Filter

Filter

Clear Reapply Advanced

Text to Columns Flash Fill

Sort & Filter

City	Year	Sport	Discipline	Athlete	Gender	Country Code	Country	Event Gender	Medal
Montreal	1976	Aquatics	Diving	KÖHLER, Christa	Women	GDR	East Germany	W	Silver
Montreal	1976	Aquatics	Diving	WILSON, Deborah Keplar	Women	USA	United States	W	Bronze
Montreal	1976	Aquatics	Diving	VAYTSEKHOVSKAYA, Elena	Women	URS	Soviet Union	W	Gold
Montreal	1976	Aquatics	Diving	POTTER-MCINGVALE, Cynthia	Women	USA	United States	W	Bronze
Montreal	1976	Aquatics	Diving	KNAPE-LINDBERGH, Ulrika	Women	SWE	Sweden	W	Silver
Montreal	1976	Aquatics	Diving	CHANDLER, Jennifer Kay	Women	USA	United States	W	Gold
Montreal	1976	Aquatics	Swimming	BABASHOFF, Shirley Farber	Women	USA	United States	W	Gold
Montreal	1976	Aquatics	Swimming	PRIEMER, Petra	Women	GDR	East Germany	W	Silver
Montreal	1976	Aquatics	Swimming	ANKE, Hannelore	Women	GDR	East Germany	W	Gold
Montreal	1976	Aquatics	Swimming	BABASHOFF, Shirley Farber	Women	USA	United States	W	Silver

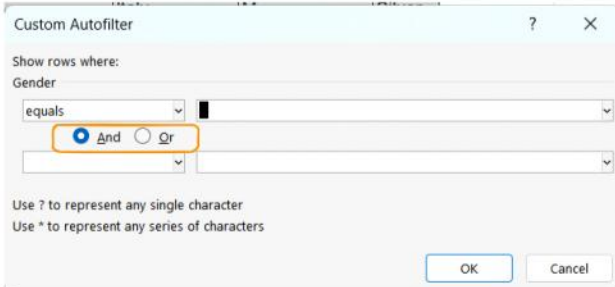
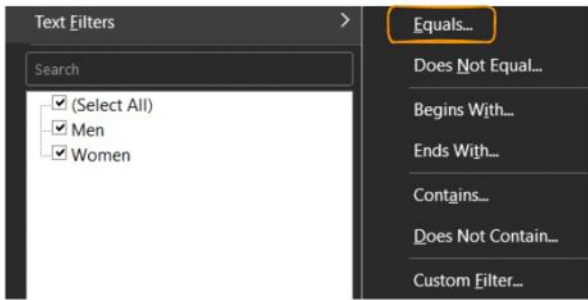
Removing Filters Vs Clearing Filter

Text Filters

Search

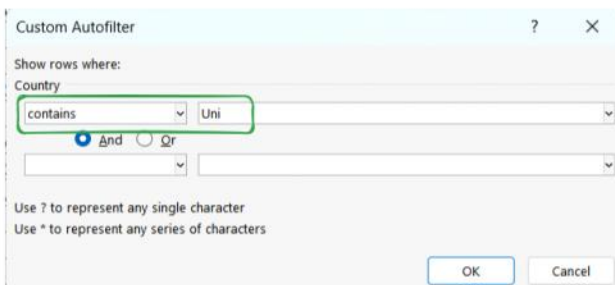
- ☒ (Select All)
- ☒ Men
- ☒ Women

Basic Filtering



AND - Both statements needs to be True, then only filter apply

OR - Any one of the statements needs to be True, then only filter apply



Country
Soviet Union
United States
United States
United States
Soviet Union
United States
Soviet Union
United States
United States
United States
Soviet Union
United States

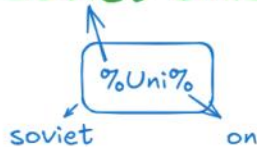
Wildcard



replace one char.

0 or more char

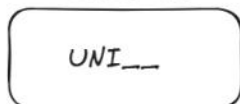
Soviet Union



United States



underscore



UNIT
UNIX

Advanced Filter
?
X

Action

☒ Filter the list, in-place
☐ Copy to another location

List range:

Criteria range:

Copy to:

☐ Unique records only

City	Year	Sport	Discipline	Athlete	Gender	Country_Code	Country	Event_gender	Medal
Montreal	1976	Aquatics	Diving	KÖHLER, Christa	Women	GDR	East Germany	W	Silver
Montreal	1976	Aquatics	Diving	KOSENKOV, Aleksandr	Men	URS			
Montreal	1976	Aquatics	Diving	BOGGS, Philip George	Men	USA			
Montreal	1976	Aquatics	Diving	CAGNOTTO, Giorgio Franco	Men	ITA			
Montreal	1976	Aquatics	Diving	WILSON, Deborah Keplar	Women	USA			
Montreal	1976	Aquatics	Diving	LOUGANIS, Gregory	Men	USA			
Montreal	1976	Aquatics	Diving	VAYTSEKHOVSKAYA, Elena	Women	URS			
Montreal	1976	Aquatics	Diving	POTTER-MCINGVALE, Cynthia	Women	USA			
Montreal	1976	Aquatics	Diving	DIBIASI, Klaus	Men	ITA			
Montreal	1976	Aquatics	Diving	ALEINIK, Vladimir	Men	URS			
Montreal	1976	Aquatics	Diving	KNAPE-LINDBERGH, Ulrika	Women	SWE			
Montreal	1976	Aquatics	Diving	CHANDLER, Jennifer Kay	Women	USA			
Montreal	1976	Aquatics	Swimming	BABASHOFF, Shirley Farber	Women	USA			
Montreal	1976	Aquatics	Swimming	SHAW, Timothy Andrew	Men	USA	United States	M	Silver
Montreal	1976	Aquatics	Swimming	PRIEMER, Petra	Women	GDR	East Germany	W	Silver
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Montreal	1976	Aquatics	Swimming	SMIRNOV, Andrei	Men	URS	Soviet Union	M	Bronze
Montreal	1976	Aquatics	Swimming	ANKE, Hannelore	Women	GDR	East Germany	W	Gold
Montreal	1976	Aquatics	Swimming	BABASHOFF, Shirley Farber	Women	USA	United States	W	Silver

City	Year	Sport	Discipline	Athlete	Gender	Country_Code	Country	Event_gender	Medal
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Montreal	1976	Aquatics	Diving	KNAPE-LINDBERGH, Ulrika	Women	SWE	Sweden	W	Silver
Montreal	1976	Aquatics	Swimming	PRIEMER, Petra	Women	GDR	East Germany	W	Silver
Montreal	1976	Aquatics	Swimming	BABASHOFF, Shirley Farber	Women	USA	United States	W	Silver

Advanced Filter
?
X

Action

☐ Filter the list, in-place
☒ Copy to another location

List range:

Criteria range:

Copy to:

☐ Unique records only

City	Year	Sport	Discipline	Athlete	Gender	Country_Code	Country	Event_gender	Medal
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Montreal	1976	Aquatics	Swimming	PRIEMER, Petra	Women	GDR	East Germany	W	Silver
Montreal	1976	Aquatics	Swimming	BABASHOFF, Shirley Farber	Women	USA	United States	W	Silver

Gender	Medal
Men	Bronze

City	Year	Sport	Discipline	Athlete	Gender	Country_Code	Country	Event_gender	Medal
Montreal	1976	Aquatics	Diving	KOSENKOV, Aleksandr	Men	URS	Soviet Union	M	Bronze
Montreal	1976	Aquatics	Diving	ALEINIK, Vladimir	Men	URS	Soviet Union	M	Bronze
Montreal	1976	Aquatics	Swimming	HOLLAND, Stephen	Men	AUS	Australia	M	Bronze
Montreal	1976	Aquatics	Swimming	SMIRNOV, Andrei	Men	URS	Soviet Union	M	Bronze

work_year	experience_level	employment_type	job_title	salary	salary_currency	employee_residence	remote_ratio
2020	MI	FT			EUR	DE	0
2020	SE	FT			IND	JP	0
2020	SE	FT			GBP	GB	50
2020	MI	FT			IND	HN	0
2020	SE	FT			IND	US	50
2021	EN	FT			IND	US	100
2021	MI	FT			IND	NG	100
2021	MI	FT			EUR	GR	100
2021	EN	FT			IND	US	100
2021	MI	FT			IND	US	100
2021	MI	FT			IND	US	100
2021	SE	FT					50
2021	EN	FT					100
2022	SE	FT					0
2022	SE	FT					0
2022	SE	FT					100
2022	SE	FT					100
2022	SE	FT					100
2022	SE	FT					100
2022	SE	FT					100
2022	SE	FT					100

work_year	experience_level	employment_type	job_title	salary	salary_currency	employee_residence	remote_ratio	company_location	company_size
2020	MI	FT	Data Scientist	70000	EUR	DE	0	DE	L
2020	SE	FT	Machine Learning Scientist	260000	IND	JP	0	JP	S
2020	SE	FT	Big Data Engineer	85000	GBP	GB	50	GB	M
2020	MI	FT	Product Data Analyst	20000	IND	HN	0	HN	S
2020	SE	FT	Machine Learning Engineer	150000	IND	US	50	US	L
2021	EN	FT	Machine Learning Scientist	225000	IND	US	100	US	L
2021	MI	FT	Data Scientist	50000	IND	NG	100	NG	L
2021	MI	FT	Data Science Engineer	34000	EUR	GR	100	GR	M
2021	EN	FT	Data Analyst	90000	IND	US	100	US	S
2021	MI	FT	Data Engineer	200000	IND	US	100	US	L
2021	MI	FT	Big Data Engineer	60000	IND	ES	50	RO	M
2021	SE	FT	Principal Data Engineer	200000	IND	US	100	US	M
2021	EN	FT	Data Analyst	50000	IND	US	100	US	M
2022	SE	FT	Data Scientist	95550	IND	US	0	US	M
2022	SE	FT	Data Engineer	113000	IND	US	0	US	L
2022	SE	FT	Data Analyst	135000	IND	US	100	US	M
2022	SE	FT	Data Science Manager	161342	IND	US	100	US	M
2022	SE	FT	Data Science Manager	137141	IND	US	100	US	M
2022	SE	FT	Data Scientist	167000	IND	US	100	US	M
2022	SE	FT	Data Scientist	123000	IND	US	100	US	M

Salary	job_title
>150000	Data Scientist

Homework