BIKE SHARING DEMAND ANALYSIS PROJECT

Prepared by : Neha Pradhan

-Intern at NextHikes IT solutions

Date: 22nd July 2025

Prepared for: NextHikes IT solutions

Acknowledgement

I am deeply thankful to the NextHikes IT solutions for providing me the opportunity to work on this project. The resources and data availed by the organization played a vital role to my learning as well as successful completion of the project.

I would also liketo thank my mentor for her continuous guidance. Her mentorship played a crucial role in helping me understand the concepts and use them practically.

Lastly, This project has been a valuable learning experience, and I am truly grateful to everyone who supported me along the path.

Introduction & Objective

The primary objective of this project was to analyse how factors like weather condition, time of the day, seasons, and user type influence bike rental behaviour of the company. By examining given data on bike usage, the analysis aims to understand the patterns that help smarter business planning, resources allocation and operational decision which can ultimately help in better decision making, planning and customer engagement.

This project mainly uses Microsoft excel to clean, combine and study multiple datasets to uncover trends in bike rental.

Tools & Techniques used

I have completed the project using Microsoft Excel, leveraging the following features:

- Power Query for merging and transforming data
- Pivot Tables for summary statistics and group analysis
- Conditional Formatting for visual data inspection
- Formulas (e.g., ROUND, IF, AVERAGE, MODE) for computation and transformation
- Charts and Dashboards for visual storytelling
- Find & select to manage missing data

*YouTube tutorials and Excel documentation were consulted during the preprocessing phase to ensure efficient use of tools and techniques.

Data Structure & Exploratory Insights

https://docs.google.com/spreadsheets/d/1jJGenPLT6G4DzjnW8_4976-NchngBc51/edit?usp=sharing&ouid=109161729744067948500&rtpof=true&sd=true

This project utilizes a combination of multiple Excel worksheets representing seasonal bike rental data.

Each sheet contains data on bike rentals, weather conditions, and calendar details. These datasets were merged using Power Query in Excel into a master sheet titled "merged 1,2&3", allowing comprehensive and seasonal analysis in a single view. Data cleaning was performed post-merge for uniformity and structure.

User Activity:

- casual: Rentals by one-time or non-registered users

- registered: Rentals by frequent users with subscriptions(assumed)

- cnt: Total rentals = casual + registered

Exploratory Insights

To uncover usage trends, pivot tables and conditional formatting were used in Excel.

Rentals by Time of Day:

- Bike Rentals are typically in higher demand during *Morning and Evening* hours as corporate offices, colleges, schools etc open and close during this hour.

- Registered rentals are comparatively high during Evening.

Effect of season:

- Rentals are highest during Spring season with total Rentals of 28305.

-Winter seasons has higher demand in comparison with Rainy.

- Summer season has low rental graphs across all users, especially during hours with heat warnings.

Type of Rentals:

-Registered rentals are high across all seasons and entire time of the day.

-Rentals are high during weekdays and comparatively low on holidays and weekends.

Pivot Table Summary

Pivot tables were created using Excel to analyse relationships across variables like time of the day, seasons, and type of rentals (casual & registered) and type of weather.

Rainy season

Total Registered Rentals: 9,714

Highest Activity: Morning (4855 registered).

Lowest: Night (672 registered).

Observation: Registered users remain high despite bad weather, mostly in the morning. Casual user are minimal.

Spring Season

Total Registered Rentals: 26307

Highest Activity: Morning (11561 registered).

Notable: Noon also high (3308 registered).

Observation: Spring shows highest usage across all user type s, especially among registered users. Likely because of the pleasant weather.

Summer Season

Total Registered Rentals: 1879

Highest Activity: Morning (605 registered).

Lowest: Night (232 Registered)

Observation: Overall lower rentals numbers than expected, possibly because of vacation season or lower working days.

Winter Season

Total Registered Rentals: 9133

Highest Activity: Morning (3527 registered).

Observation: Despite cold weather registered user remain consistent, maybe because of work or college related commute.

Dashboard Summary

Excel dashboard visualises key insight from the Bike Sharing Demand Analysis Dataset using three main Charts:

Rental by Seasons (Bar Chart)

-Spring has the highest number of bike rentals. (28305)

-Winter follows with roughly 16959 rentals

-Rainy season shows moderate usage. (11294)

-Summer has the lowest Rentals, indicating the possibility of poor riding weather condition or the holidays.

Finding: Spring is the most preferred season for biking, likely due to pleasant weather.

Rentals by the time of the day (Pie Chart)

-Evening is the most active time for rentals (19041).

-Morning also follows strongly. (15954)

-Noon and Night has significantly fewer rentals. (7554 at Night)

Finding: Morning and Evening commuting hours dominate the rental behaviour, linking with work, school, and colleges travel pattern.

Type of Rentals

-Registered users rents bike in higher volume with more than 60000 rentals.

-Casual users contributes comparatively less with less than 10,000 rentals.

Finding: The platform is mostly used by registered user-suggesting frequent, possibly work related, college related or school related.

Conclusion & recommendation

-Spring is the peak biking season, with the highest number of rentals across all time slots.

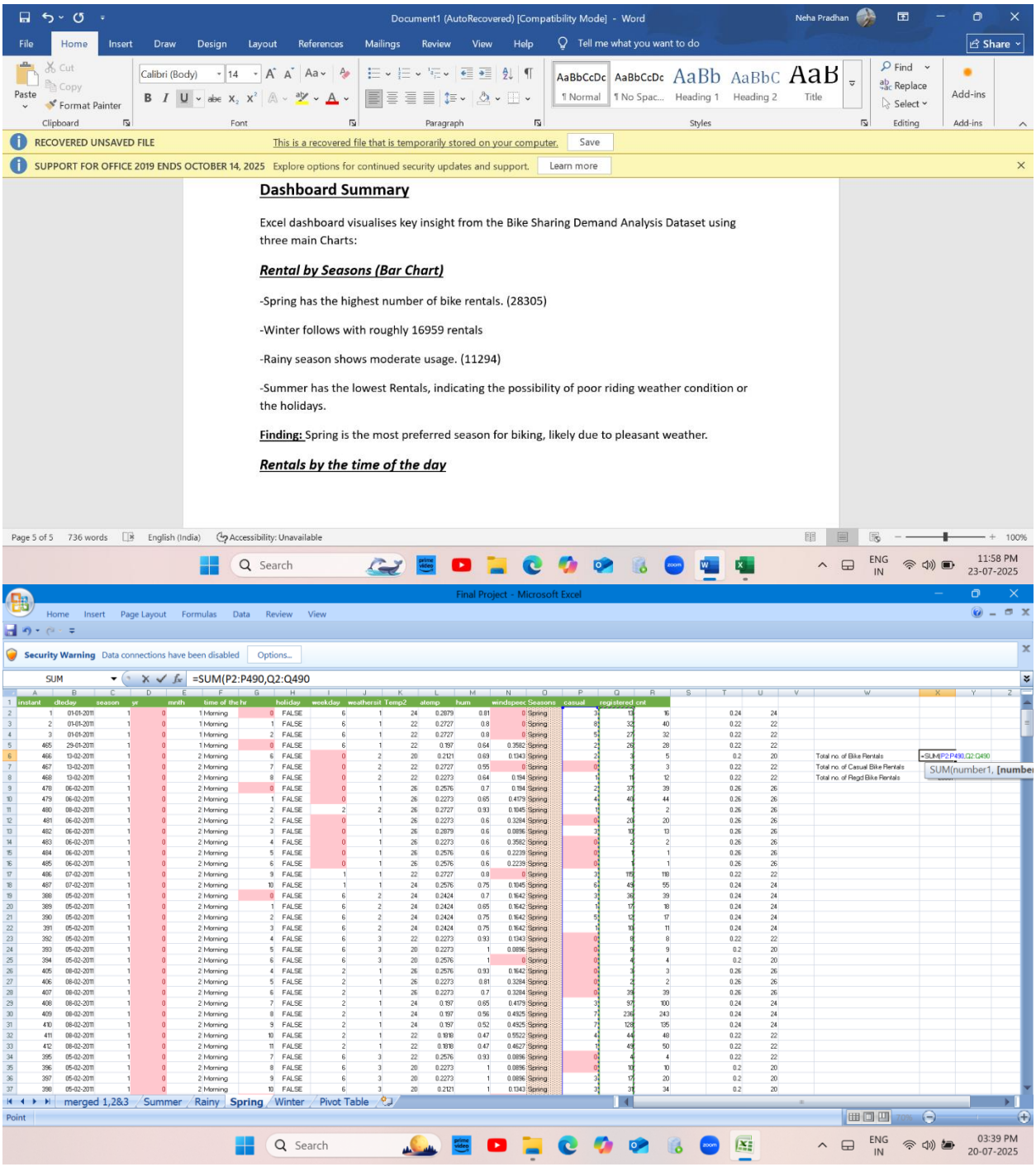
-Morning and Evening are the most active hours for bike usage in all seasons, reflecting daily commuting patterns.

-Registered users consistently dominate the rental counts across all seasons, indicating frequent and loyal usage.

-Casual user activity drops notably during Rainy and Summer seasons, likely due to uncomfortable weather or vacations.

Recommendation:

To improve efficiency and customer satisfaction, businesses should optimize fleet distribution during peak periods, create loyalty incentives for regular users, and adopt weather-aware planning tools for demand forecasting.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Dashboard Summary
Excel dashboard visualises key insight from the Bike Sharing Demand Analysis Dataset using three main Charts:
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-Summer has the lowest Rentals, indicating the possibility of poor riding weather condition or the holidays.
Finding: Spring is the most preferred season for biking, likely due to pleasant weather.
Rentals by the time of the day
Page 5 of 5
736 words
English (India)
Accessibility: Unavailable
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Search
ENG IN
11:58 PM
23-07-2025
Final Project - Microsoft Excel
Security Warning
Data connections have been disabled
Options...
SUM
=SUM(P2:P490,Q2:Q490
Total no. of Bike Rentals
Total no. of Casual Bike Rentals
Total no. of Regd Bike Rentals
SUM(number1, [numbe
merged 1,2&3
Summer
Rainy
Spring
Winter
Pivot Table
Point
Search
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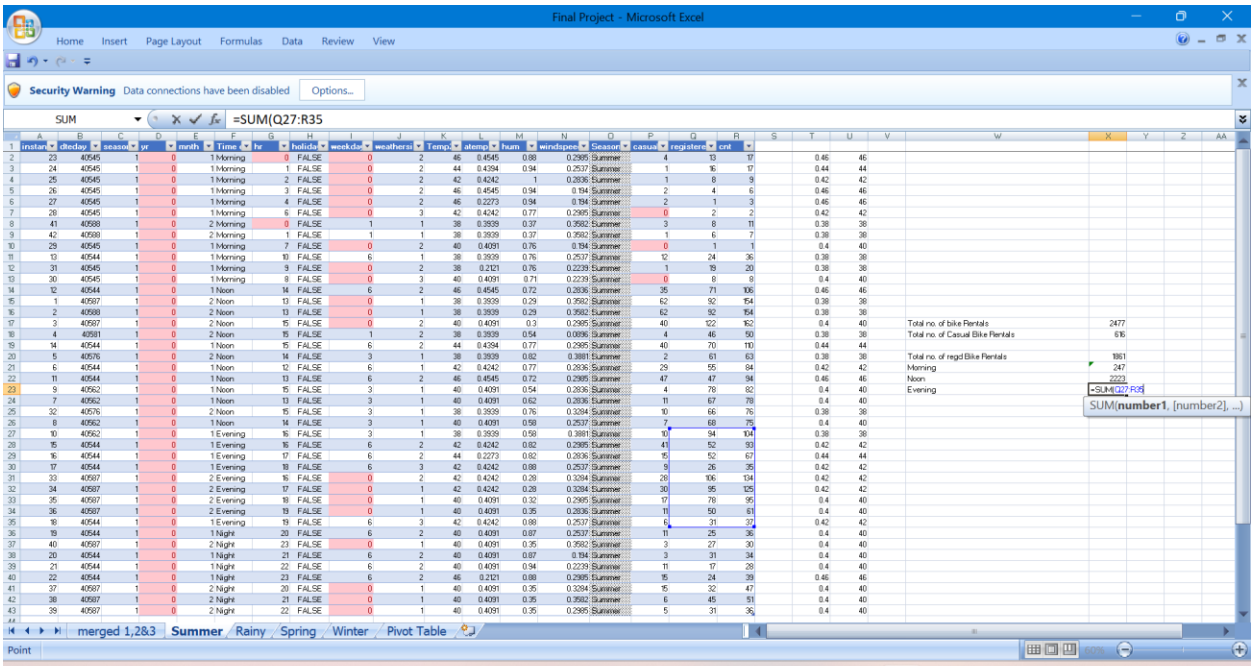
20-07-2025


Final Project - Microsoft Excel
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merged 1,2&3
Summer
Rainy
Spring
Winter
Pivot Table
Total no. of bike Rentals 2477
Total no. of Casual Bike Rentals 616
Total no. of regd Bike Rentals 1861
Morning 247
Noon 2223
Evening
SUM(number1, [number2], ...)
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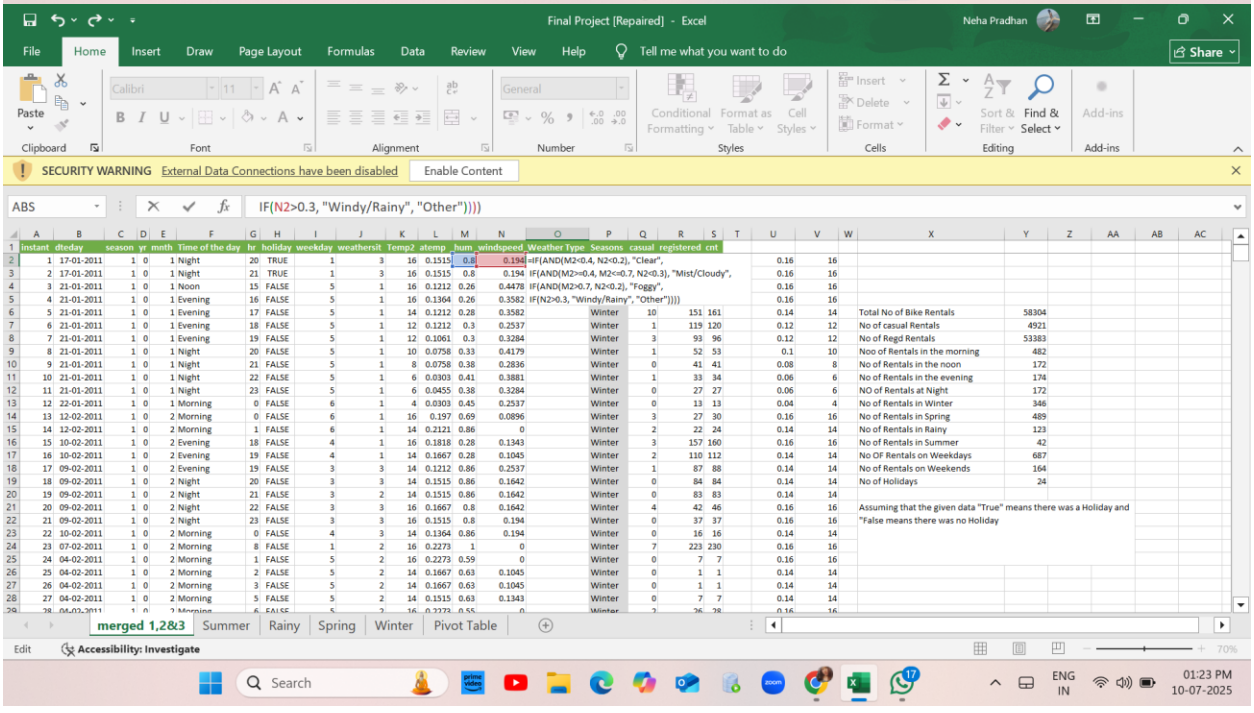
Final Project [Repaired] - Excel
Neha Pradhan
SECURITY WARNING External Data Connections have been disabled
Enable Content
IF(N2>0.3, "Windy/Rainy", "Other"))))
=IF(AND(M2<0.4, N2<0.2), "Clear",
IF(AND(M2>=0.4, M2<=0.7, N2<0.3), "Mist/Cloudy",
IF(AND(M2>0.7, N2<0.2), "Foggy",
IF(N2>0.3, "Windy/Rainy", "Other"))))
Total No of Bike Rentals 58304
No of casual Rentals 4921
No of Regd Rentals 53383
Noo of Rentals in the morning 482
No of Rentals in the noon 172
No of Rentals in the evening 174
NO of Rentals at Night 172
No of Rentals in Winter 346
No of Rentals in Spring 489
No of Rentals in Rainy 123
No of Rentals in Summer 42
No OF Rentals on Weekdays 687
No of Rentals on Weekends 164
No of Holidays 24
Assuming that the given data "True" means there was a Holiday and
"False means there was no Holiday
merged 1,2&3
Summer
Rainy
Spring
Winter
Pivot Table
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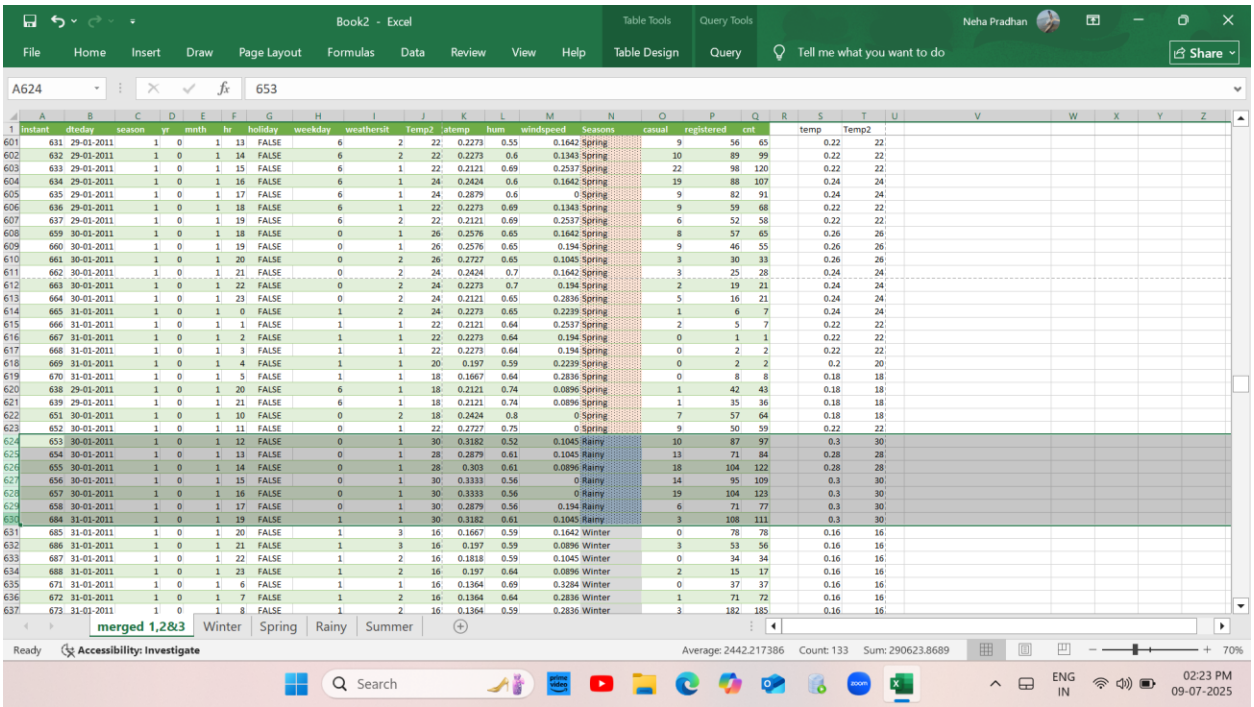

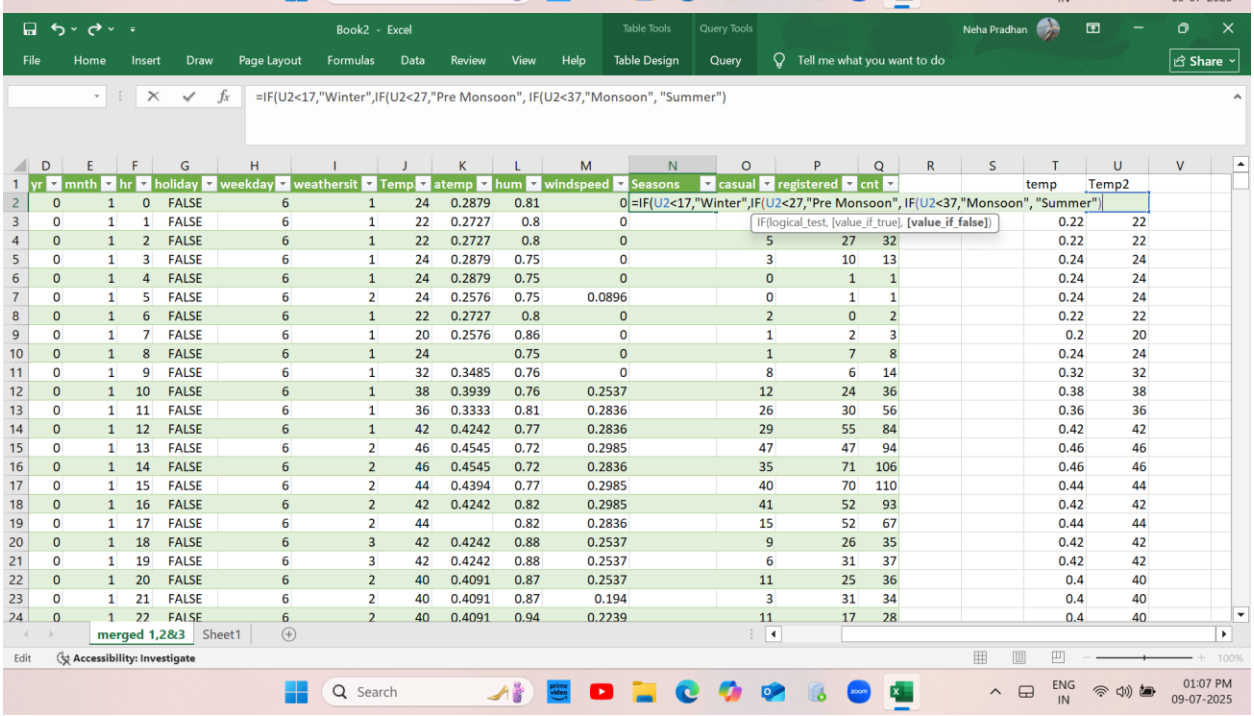

	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	yr	mnth	hr	holiday	weekday	weathersit	Temp	atemp	hum	windspeed	Seasons	casual	registered	cnt			temp	Temp2	
2	0	1	0	FALSE	6	1	24	0.2879	0.81	0	=IF(U2<17,"Winter",IF(U2<27,"Pre Monsoon", IF(U2<37,"Monsoon", "Summer")								
3	0	1	1	FALSE	6	1	22	0.2727	0.8	0							0.22	22	
4	0	1	2	FALSE	6	1	22	0.2727	0.8	0		5	27	32			0.22	22	
5	0	1	3	FALSE	6	1	24	0.2879	0.75	0		3	10	13			0.24	24	
6	0	1	4	FALSE	6	1	24	0.2879	0.75	0		0	1	1			0.24	24	
7	0	1	5	FALSE	6	2	24	0.2576	0.75	0.0896		0	1	1			0.24	24	
8	0	1	6	FALSE	6	1	22	0.2727	0.8	0		2	0	2			0.22	22	
9	0	1	7	FALSE	6	1	20	0.2576	0.86	0		1	2	3			0.2	20	
10	0	1	8	FALSE	6	1	24		0.75	0		1	7	8			0.24	24	
11	0	1	9	FALSE	6	1	32	0.3485	0.76	0		8	6	14			0.32	32	
12	0	1	10	FALSE	6	1	38	0.3939	0.76	0.2537		12	24	36			0.38	38	
13	0	1	11	FALSE	6	1	36	0.3333	0.81	0.2836		26	30	56			0.36	36	
14	0	1	12	FALSE	6	1	42	0.4242	0.77	0.2836		29	55	84			0.42	42	
15	0	1	13	FALSE	6	2	46	0.4545	0.72	0.2985		47	47	94			0.46	46	
16	0	1	14	FALSE	6	2	46	0.4545	0.72	0.2836		35	71	106			0.46	46	
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23	0	1	21	FALSE	6	2	40	0.4091	0.87	0.194		3	31	34			0.4	40	
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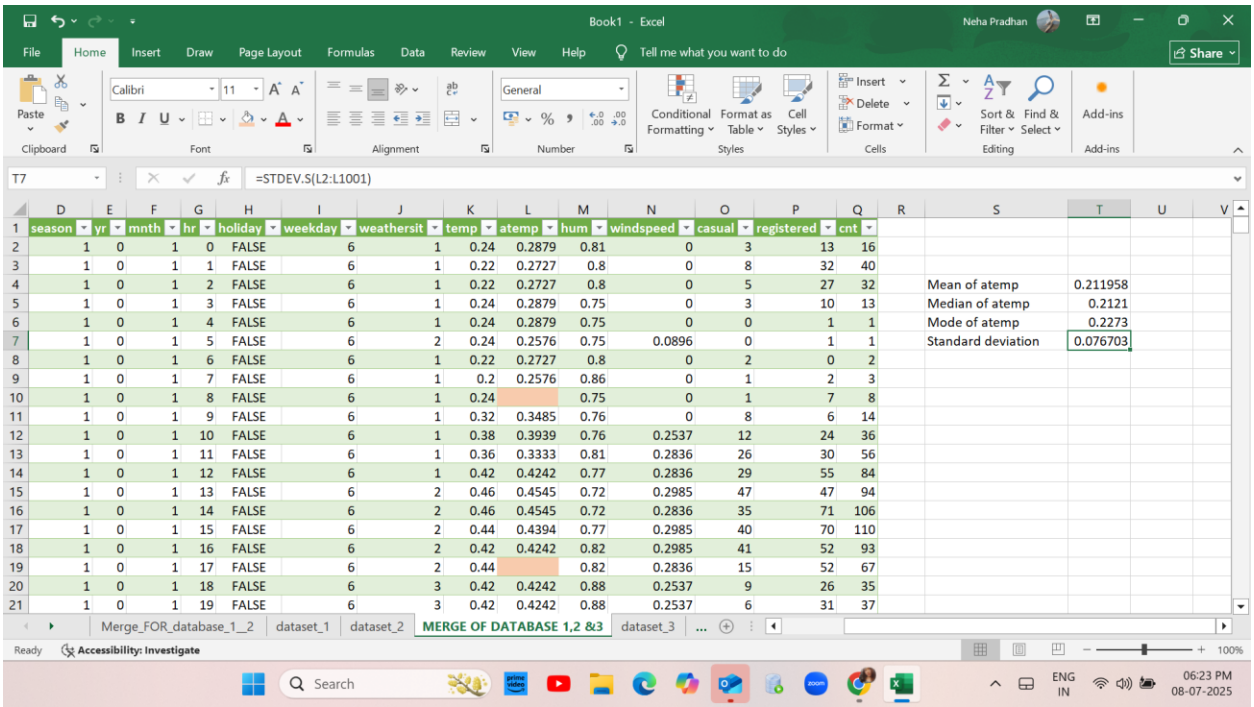

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T7 =STDEV.S(L2:L1001)

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1	season	yr	mnth	hr	holiday	weekday	weathersit	temp	atemp	hum	windspeed	casual	registered	cnt					
2	1	0	1	0	FALSE	6	1	0.24	0.2879	0.81	0	3	13	16					
3	1	0	1	1	FALSE	6	1	0.22	0.2727	0.8	0	8	32	40					
4	1	0	1	2	FALSE	6	1	0.22	0.2727	0.8	0	5	27	32		Mean of atemp	0.211958		
5	1	0	1	3	FALSE	6	1	0.24	0.2879	0.75	0	3	10	13		Median of atemp	0.2121		
6	1	0	1	4	FALSE	6	1	0.24	0.2879	0.75	0	0	1	1		Mode of atemp	0.2273		
7	1	0	1	5	FALSE	6	2	0.24	0.2576	0.75	0.0896	0	1	1		Standard deviation	0.076703		
8	1	0	1	6	FALSE	6	1	0.22	0.2727	0.8	0	2	0	2					
9	1	0	1	7	FALSE	6	1	0.2	0.2576	0.86	0	1	2	3					
10	1	0	1	8	FALSE	6	1	0.24		0.75	0	1	7	8					
11	1	0	1	9	FALSE	6	1	0.32	0.3485	0.76	0	8	6	14					
12	1	0	1	10	FALSE	6	1	0.38	0.3939	0.76	0.2537	12	24	36					
13	1	0	1	11	FALSE	6	1	0.36	0.3333	0.81	0.2836	26	30	56					
14	1	0	1	12	FALSE	6	1	0.42	0.4242	0.77	0.2836	29	55	84					
15	1	0	1	13	FALSE	6	2	0.46	0.4545	0.72	0.2985	47	47	94					
16	1	0	1	14	FALSE	6	2	0.46	0.4545	0.72	0.2836	35	71	106					
17	1	0	1	15	FALSE	6	2	0.44	0.4394	0.77	0.2985	40	70	110					
18	1	0	1	16	FALSE	6	2	0.42	0.4242	0.82	0.2985	41	52	93					
19	1	0	1	17	FALSE	6	2	0.44		0.82	0.2836	15	52	67					
20	1	0	1	18	FALSE	6	3	0.42	0.4242	0.88	0.2537	9	26	35					
21	1	0	1	19	FALSE	6	3	0.42	0.4242	0.88	0.2537	6	31	37					

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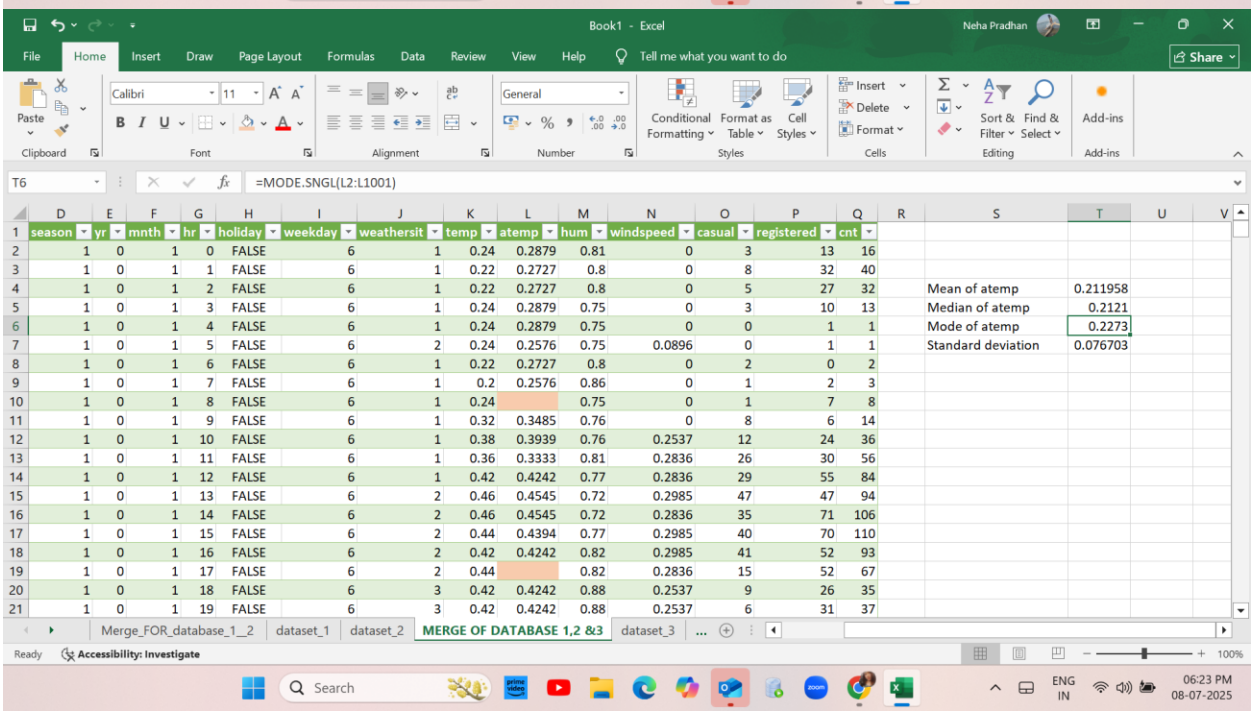

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2	1	0	1	0	FALSE	6	1	0.24	0.2879	0.81	0	3	13	16					
3	1	0	1	1	FALSE	6	1	0.22	0.2727	0.8	0	8	32	40					
4	1	0	1	2	FALSE	6	1	0.22	0.2727	0.8	0	5	27	32		Mean of atemp	0.211958		
5	1	0	1	3	FALSE	6	1	0.24	0.2879	0.75	0	3	10	13		Median of atemp	0.2121		
6	1	0	1	4	FALSE	6	1	0.24	0.2879	0.75	0	0	1	1		Mode of atemp	0.2273		
7	1	0	1	5	FALSE	6	2	0.24	0.2576	0.75	0.0896	0	1	1		Standard deviation	0.076703		
8	1	0	1	6	FALSE	6	1	0.22	0.2727	0.8	0	2	0	2					
9	1	0	1	7	FALSE	6	1	0.2	0.2576	0.86	0	1	2	3					
10	1	0	1	8	FALSE	6	1	0.24		0.75	0	1	7	8					
11	1	0	1	9	FALSE	6	1	0.32	0.3485	0.76	0	8	6	14					
12	1	0	1	10	FALSE	6	1	0.38	0.3939	0.76	0.2537	12	24	36					
13	1	0	1	11	FALSE	6	1	0.36	0.3333	0.81	0.2836	26	30	56					
14	1	0	1	12	FALSE	6	1	0.42	0.4242	0.77	0.2836	29	55	84					
15	1	0	1	13	FALSE	6	2	0.46	0.4545	0.72	0.2985	47	47	94					
16	1	0	1	14	FALSE	6	2	0.46	0.4545	0.72	0.2836	35	71	106					
17	1	0	1	15	FALSE	6	2	0.44	0.4394	0.77	0.2985	40	70	110					
18	1	0	1	16	FALSE	6	2	0.42	0.4242	0.82	0.2985	41	52	93					
19	1	0	1	17	FALSE	6	2	0.44		0.82	0.2836	15	52	67					
20	1	0	1	18	FALSE	6	3	0.42	0.4242	0.88	0.2537	9	26	35					
21	1	0	1	19	FALSE	6	3	0.42	0.4242	0.88	0.2537	6	31	37					

Merge_FOR_database_1__2 | dataset_1 | dataset_2 | MERGE OF DATABASE 1,2 &3 | dataset_3 | ...

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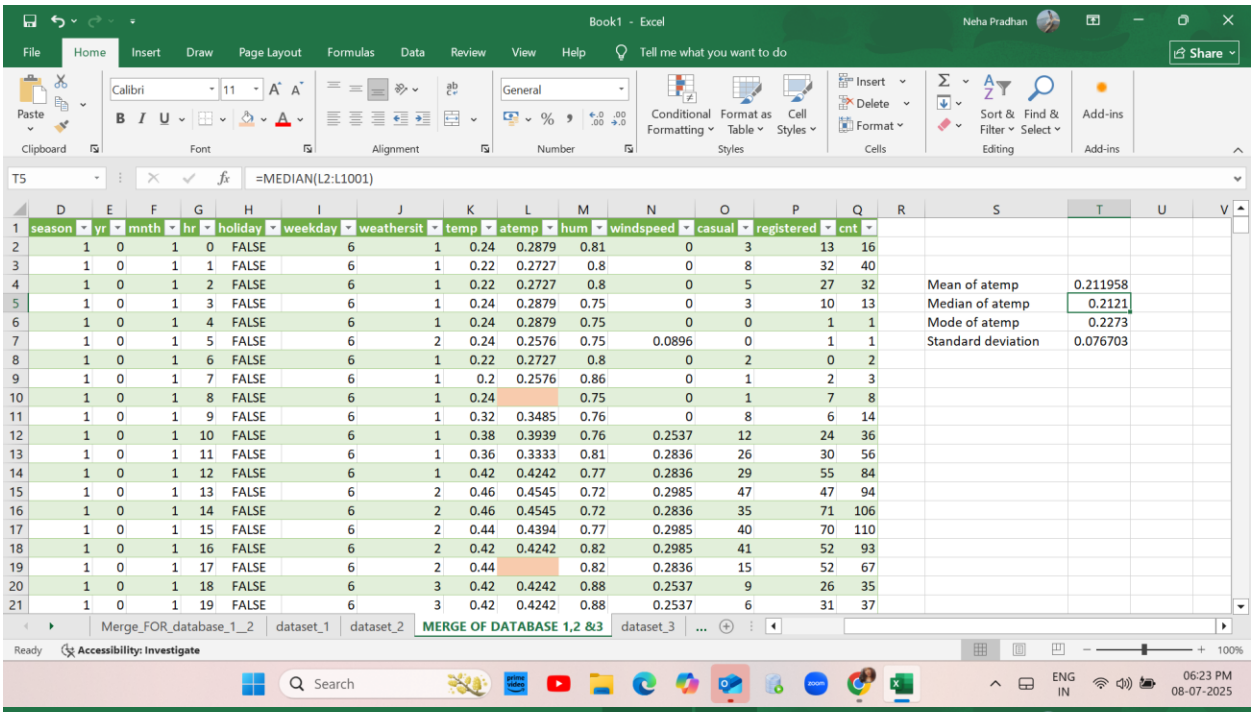

season	yr	mnth	hr	holiday	weekday	weathersit	temp	atemp	hum	windspeed	casual	registered	cnt
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1	0	1	1	FALSE	6	1	0.22	0.2727	0.8	0	8	32	40
1	0	1	2	FALSE	6	1	0.22	0.2727	0.8	0	5	27	32
1	0	1	3	FALSE	6	1	0.24	0.2879	0.75	0	3	10	13
1	0	1	4	FALSE	6	1	0.24	0.2879	0.75	0	0	1	1
1	0	1	5	FALSE	6	2	0.24	0.2576	0.75	0.0896	0	1	1
1	0	1	6	FALSE	6	1	0.22	0.2727	0.8	0	2	0	2
1	0	1	7	FALSE	6	1	0.2	0.2576	0.86	0	1	2	3
1	0	1	8	FALSE	6	1	0.24		0.75	0	1	7	8
1	0	1	9	FALSE	6	1	0.32	0.3485	0.76	0	8	6	14
1	0	1	10	FALSE	6	1	0.38	0.3939	0.76	0.2537	12	24	36
1	0	1	11	FALSE	6	1	0.36	0.3333	0.81	0.2836	26	30	56
1	0	1	12	FALSE	6	1	0.42	0.4242	0.77	0.2836	29	55	84
1	0	1	13	FALSE	6	2	0.46	0.4545	0.72	0.2985	47	47	94
1	0	1	14	FALSE	6	2	0.46	0.4545	0.72	0.2836	35	71	106
1	0	1	15	FALSE	6	2	0.44	0.4394	0.77	0.2985	40	70	110
1	0	1	16	FALSE	6	2	0.42	0.4242	0.82	0.2985	41	52	93
1	0	1	17	FALSE	6	2	0.44		0.82	0.2836	15	52	67
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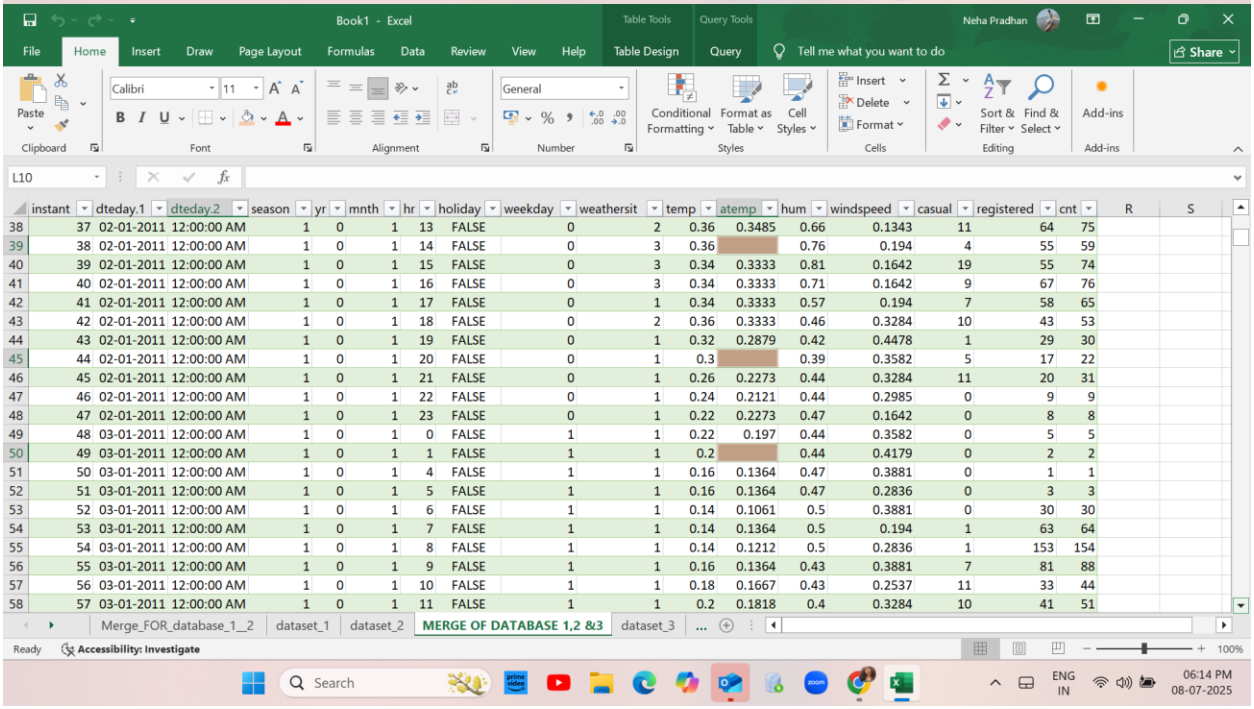

instant	dteday.1	dteday_2	season	yr	mnth	hr	holiday	weekday	weathersit	temp	atemp	hum	windspeed	casual	registered	cnt
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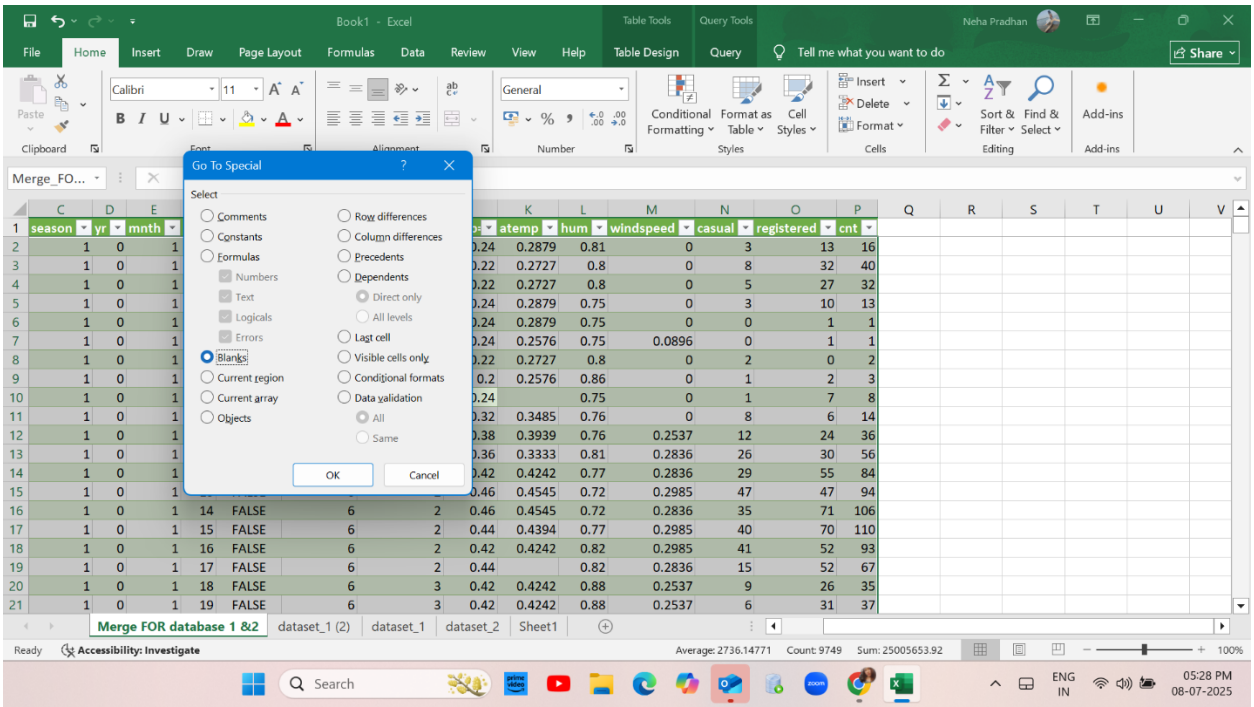
38	02-01-2011	12:00:00 AM	1	0	1	14	FALSE	0	3	0.36		0.76	0.194	4	55	59
39	02-01-2011	12:00:00 AM	1	0	1	15	FALSE	0	3	0.34	0.3333	0.81	0.1642	19	55	74
40	02-01-2011	12:00:00 AM	1	0	1	16	FALSE	0	3	0.34	0.3333	0.71	0.1642	9	67	76
41	02-01-2011	12:00:00 AM	1	0	1	17	FALSE	0	1	0.34	0.3333	0.57	0.194	7	58	65
42	02-01-2011	12:00:00 AM	1	0	1	18	FALSE	0	2	0.36	0.3333	0.46	0.3284	10	43	53
43	02-01-2011	12:00:00 AM	1	0	1	19	FALSE	0	1	0.32	0.2879	0.42	0.4478	1	29	30
44	02-01-2011	12:00:00 AM	1	0	1	20	FALSE	0	1	0.3		0.39	0.3582	5	17	22
45	02-01-2011	12:00:00 AM	1	0	1	21	FALSE	0	1	0.26	0.2273	0.44	0.3284	11	20	31
46	02-01-2011	12:00:00 AM	1	0	1	22	FALSE	0	1	0.24	0.2121	0.44	0.2985	0	9	9
47	02-01-2011	12:00:00 AM	1	0	1	23	FALSE	0	1	0.22	0.2273	0.47	0.1642	0	8	8
48	03-01-2011	12:00:00 AM	1	0	1	0	FALSE	1	1	0.22	0.197	0.44	0.3582	0	5	5
49	03-01-2011	12:00:00 AM	1	0	1	1	FALSE	1	1	0.2		0.44	0.4179	0	2	2
50	03-01-2011	12:00:00 AM	1	0	1	4	FALSE	1	1	0.16	0.1364	0.47	0.3881	0	1	1
51	03-01-2011	12:00:00 AM	1	0	1	5	FALSE	1	1	0.16	0.1364	0.47	0.2836	0	3	3
52	03-01-2011	12:00:00 AM	1	0	1	6	FALSE	1	1	0.14	0.1061	0.5	0.3881	0	30	30
53	03-01-2011	12:00:00 AM	1	0	1	7	FALSE	1	1	0.14	0.1364	0.5	0.194	1	63	64
54	03-01-2011	12:00:00 AM	1	0	1	8	FALSE	1	1	0.14	0.1212	0.5	0.2836	1	153	154
55	03-01-2011	12:00:00 AM	1	0	1	9	FALSE	1	1	0.16	0.1364	0.43	0.3881	7	81	88
56	03-01-2011	12:00:00 AM	1	0	1	10	FALSE	1	1	0.18	0.1667	0.43	0.2537	11	33	44
57	03-01-2011	12:00:00 AM	1	0	1	11	FALSE	1	1	0.2	0.1818	0.4	0.3284	10	41	51


Book1 - Excel
Table Tools
Query Tools
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Numbers
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Logicals
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Current region
Current array
Objects
Row differences
Column differences
Precedents
Dependents
Direct only
All levels
Last cell
Visible cells only
Conditional formats
Data validation
All
Same
OK
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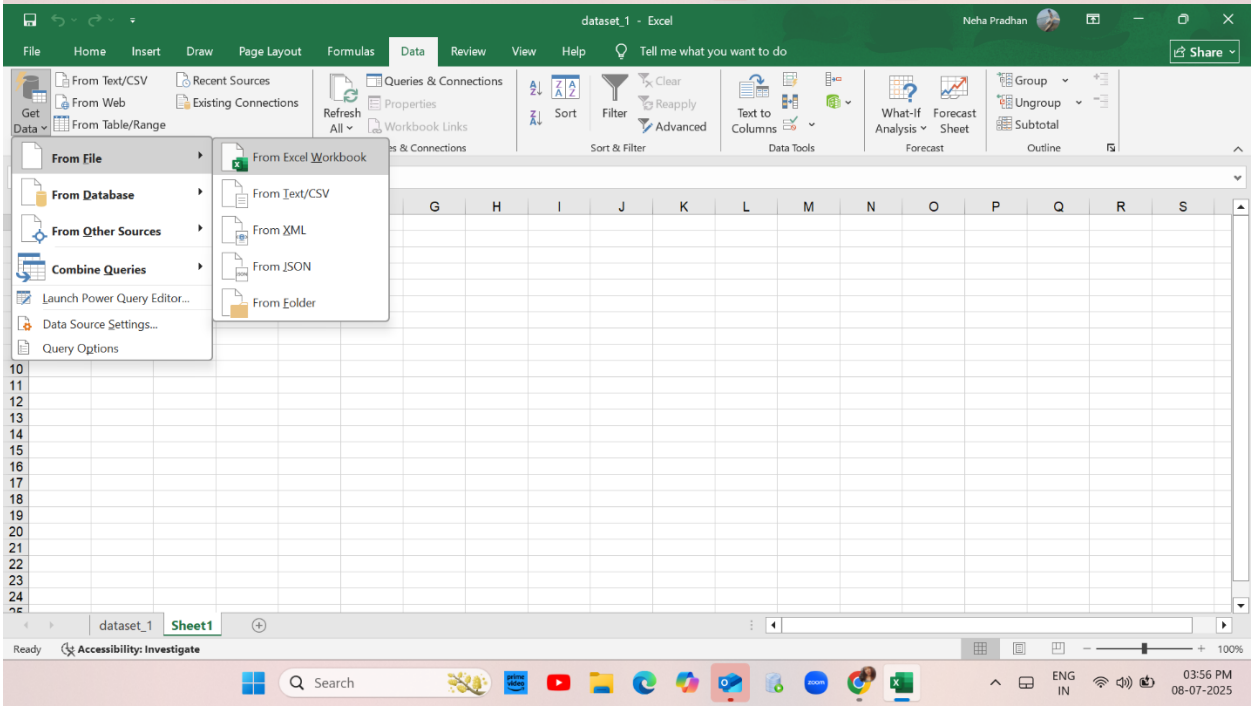
dataset_1 - Excel
Neha Pradhan
File Home Insert Draw Page Layout Formulas Data Review View Help
Tell me what you want to do
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Recent Sources
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Properties
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Clear
Reapply
Advanced
Text to Columns
What-If Analysis
Forecast Sheet
Group
Ungroup
Subtotal
Sort & Filter
Data Tools
Forecast
Outline
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From Other Sources
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Data Source Settings...
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From Text/CSV
From XML
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Thank you

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- The creators of the dataset for providing valuable real-world data.

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Thank you for taking the time to review my work.