

REPORT ON MINI PROJECT

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Project Title : Students Performance Data

Project Domain : Education

Submission Date : 10/12/2025

Mentor Name : Kumaran .M

Raw Data Set Link :

https://github.com/Priya005-FNB07/Mini_-Project/blob/main/Raw%20Dataset%20_%20Mini%20Project.xlsx

Cleaned Data Set Link :

https://github.com/Priya005-FNB07/Mini_-Project/blob/main/Mini%20Project%20Cleaned%20Dataset.xlsx

Purpose Of the Project:

- To analyze the level of the students' knowledge & their Performance.
- To conduct a Comprehensive analysis & extract meaningful insights.

Objectives:

- To study the learning pattern of the students.
- To remove inconsistencies, missing values.
- To examine the level of the student's knowledge like high mark holders and low grade students etc.

Visualization :

- To create meaningful visualization like graphs, charts.
- To translate complex finding into simple and actionable.

Insight & Final Report :

- To provide data - driven insights that helps the staff to find students' knowledge & analyze their situation easily.
- To provide all findings, insights, into Professional and structured format.

DATA CLEANING

- 1) Convert the Range into Table with the use of “ctrl+t”

Before

A	B	C	D	E	F	G	H	I	J	K	L
Student_ID	First Name	Date Of Birth	Subject	Attendance Status	Exam Score	Assignment	Asst -Status	Performance	Grade Lev	Guardian_Sign	
S00001	Donna	2/10/2007	Math	Late		98 Head baby.	â€œ		Grade 3	Yes	
S00002	John	11/26/2014	Arabic	Present		63 Keep audience me	Done		90 Grade 5	No	
S00003	Chad	2/7/2017	Math	late		59 Three half peace.	Done		-5 Grade 3	Yes	
S00004	Anthony	11/10/2014	Math	absnt		75 Assume particular	âœ...		90 Grade 5		
S00005	Mary	4/1/2016	Math	PRESENT		79 Four from kind da	Done		-5 Grade 3	No	
S00006	Joe	6/29/2017	Geography	Late		99 Analysis late huma	â€œ		-5 Grade 2	No	
S00007	Margaret	12/4/2009	Geography	Absent		103 Shake by.	Done		1 Grade 4	Yes	
S00008	James	1/25/2011	Geography	Absent		89 Oil education large	âœ...		0.8 Grade 1	No	
S00009	Benjamin	10/4/2007	Science	PRESENT		44 Never bar time pei	â€œ		-5 Grade 4	No	
S00010	Aaron	2/18/2012	Science	Absent		70 Deal music.	âœ"		90 Grade 4	No	
S00011	christopher	2/23/2008	Arabic	Late		66 Sister however.	âœ...		90 Grade 1	No	
S00012	Jonathan	7/7/2016	Geography	left early		62 Range huge.	âœ"		-5 Grade 1	Yes	
S00013	Robert	4/30/2008	History	Late		104 Music build check	âœ...		-5 Grade 4		
S00014	Melanie	8/19/2006	Geography	excused		93 Strategy.	â€œ		-5 Grade 2	Yes	
S00015	Alexandria	6/21/2006	History	Present		60 Movement before	âœ"		90 Grade 3	No	
S00016	Ann	9/2/2007	Arabic	left early		48 Strategy family.	âœ...		0.8 Grade 2	Yes	
S00017	Kelly	6/28/2015	Math	Absent		53 Alone yeah.	Done		1 Grade 1		
S00018	Michael	7/21/2008	History	PRESENT		42 Town start industr	Done		-5 Grade 4		
S00019	Jennifer	1/3/2015	Science	absnt							

After

A	B	C	D	E	F	G	H	I	J	K
Student_ID	First Name	Date Of Birth	Age	Subject	Attendance Status	Exam Score	Assignment	Asst -Status	Performance	Grade Level
S00001	Donna	2/10/2007	18	Math	Late		Record.	â€œ		Grade 3
S00002	John	11/26/2014	11	Arabic	Present		98 Head baby.	â€œ		90 Grade 5
S00003	Chad	2/7/2017	8	Math	late		63 Keep audience medical free.	Done		-5 Grade 3
S00004	Anthony	11/10/2014	11	Math	absnt		59 Three half peace.	Done		90 Grade 5
S00005	Mary	4/1/2016	9	Math	PRESENT		75 Assume particularly.	âœ...		-5 Grade 3
S00006	Joe	6/29/2017	8	Geography	Late		79 Four from kind dark.	Done		-5 Grade 2
S00007	Margaret	12/4/2009	15	Geography	Absent		99 Analysis late human.	â€œ		1 Grade 4
S00008	James	1/25/2011	14	Geography	Absent		103 Shake by.	Done		0.8 Grade 1
S00009	Benjamin	10/4/2007	18	Science	PRESENT		89 Oil education large wonder.	âœ...		-5 Grade 4
S00010	Aaron	2/18/2012	13	Science	Absent		44 Never bar time personal.	â€œ		90 Grade 4
S00011	christopher	2/23/2008	17	Arabic	Late		70 Deal music.	âœ"		90 Grade 1
S00012	Jonathan	7/7/2016	9	Geography	left early		66 Sister however.	âœ...		-5 Grade 1
S00013	Robert	4/30/2008	17	History	Late		62 Range huge.	âœ"		1 Grade 2
S00014	Melanie	8/19/2006	19	Geography	excused		104 Music build check force.	âœ...		-5 Grade 4
S00015	Alexandria	6/21/2006	19	History	Present		93 Strategy.	â€œ		-5 Grade 2
S00016	Ann	9/2/2007	18	Arabic	left early		60 Movement before.	âœ"		90 Grade 3
S00017	Kelly	6/28/2015	10	Math	Absent		48 Strategy family.	âœ...		0.8 Grade 2
S00018	Michael	7/21/2008	17	History	PRESENT		53 Alone yeah.	Done		1 Grade 1
S00019	Jennifer	1/3/2015	10	Science	absnt		42 Town start industry.	Done		-5 Grade 4

2) Name inconsistency removed with the use of this formula

Formula:

: =PROPER(B2:B12157)

Before

First Name
Veronica Long
Daniel Ortiz
Aaron Johnson
Nicholas Garcia
Leslie Dawson
Mrs. Rebecca Avila
Tyrone Richards
jacob brown
jenna huber
Thomas Ramos
Christopher Daniels
Felicia Russell
Kimberly Carter
David Love
Julie Lowe
tracy davidson
Carolyn White
Alan Gutierrez

After

1759	Tyrone Richards
1760	Jacob Brown
1761	Jenna Huber
1762	Thomas Ramos
1763	Christopher Daniels
1764	Felicia Russell
1765	Kimberly Carter
1766	David Love
1767	Julie Lowe
1768	Tracy Davidson
1769	Carolyn White
1770	Alan Gutierrez
1771	Erica Lopez
1772	Katie Drake
1773	Michael Mitchell

3) Inconsistency present in attendance will remove that with the help of Capitalization and replace values in power query

Before	After
Attendance Status	Attendance
Late	Late
Present	Present
late	Late
absnt	Absent
PRESENT	Present
Late	Late
Absent	Absent
Absent	Absent
PRESENT	Present
Absent	Absent
Late	Late
left early	Left Early
Late	Late
excused	Excused
Present	Present
left early	Left Early
Absent	Absent
PRESENT	Present
absnt	Absent

4) Date of birth correction

Formula:

 $=\text{TEXT}(\text{C2:C12157}, \text{"dd/mm/yyyy"})$

Before	After
Date_of_Birth	Date Of Birth
10-Feb-2007	10/02/2007
26-Nov-2014	26/11/2014
7-Feb-2017	07/02/2017
10-Nov-2014	10/11/2014
1-Apr-2016	01/04/2016
29-Jun-2017	29/06/2017
4-Dec-2009	04/12/2009
25-Jan-2011	25/01/2011
4-Oct-2007	04/10/2007
18-Feb-2012	18/02/2012
23-Feb-2008	23/02/2008
7-Jul-2016	07/07/2016
30-Apr-2008	30/04/2008
19-Aug-2006	19/08/2006
21-Jun-2006	21/06/2006
2-Sep-2007	02/09/2007
28-Jun-2015	28/06/2015
21-Jul-2008	21/07/2008
3-Jan-2015	03/01/2015

5) Inconsistency occurs in my dataset Assignment (Have Dots in end)

Formula:

fx =IF(RIGHT(C2,1)=".,"LEFT(C2,LEN(C2)-1),C2)

Before	After
Assignment_Name	G
Record.	Assignment
Head baby.	Heavy consider process report
Keep audience medical free.	Culture claim
Three half peace.	General participant
Assume particularly.	Movement before
Four from kind dark.	Degree society word those
Analysis late human.	Question tend local
Shake by.	Yourself shake
Oil education large wonder.	Fact bag
Never bar time personal.	Chance born
Deal music.	Personal environmental fight its
Sister however.	Man pass court among
Range huge.	Bag
Music build check force.	Once product force
Strategy.	Season deal hair
Movement before.	Technology show work
Strategy family.	Huge travel ask politics
Alone yeah.	Too alone exactly enter
Town start industry.	Suffer purpose
	Share full money

- 6) Exam score column have some blanks, that will Replaced by the subject wise average calculated

Formula:

 =SWITCH(D2,"Science",92,"History",57,"Math",91,"English",40,"Geography",50,"Arabic",76)

Before

Exam Score
50
57
40
57
92
50
91
50
50
91
40
40
50
57
40
57
76
50

After

Exam Scores
92
57
57
57
91
40
50
91
50
91
50
91
50
92
92
50
40
76
40
57

7) Null value present (status) in my dataset that will Replaced with the use of replaced values in Power query (mode based)

	Before	After
	A B C Status	A B C Status
	null	Done
	pending	Pending
	null	Done
	null	Done
	Done	Done
	pending	Pending
	Done	Done
	null	Done
	null	Done
	pending	Pending
	Done	Done
	null	Done
	not done	NotDone
	null	Done
	null	Done
	pending	Pending
	null	Done
	pending	Pending
	null	Done
	null	Done
	pending	Pending

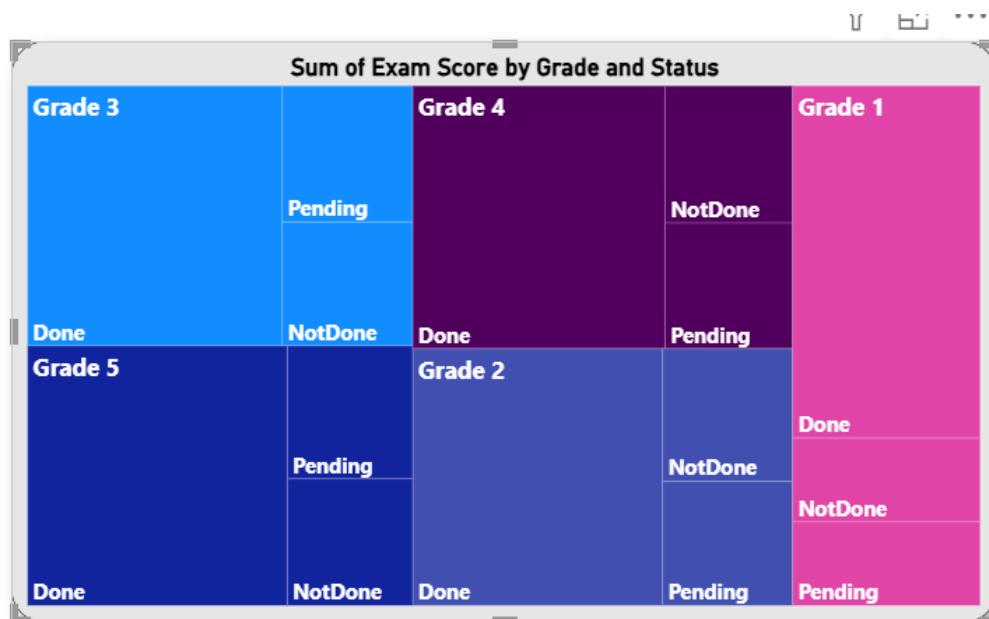
DATA VISUALIZATION

CHARTS:

1) TREE CHART:

Findings:

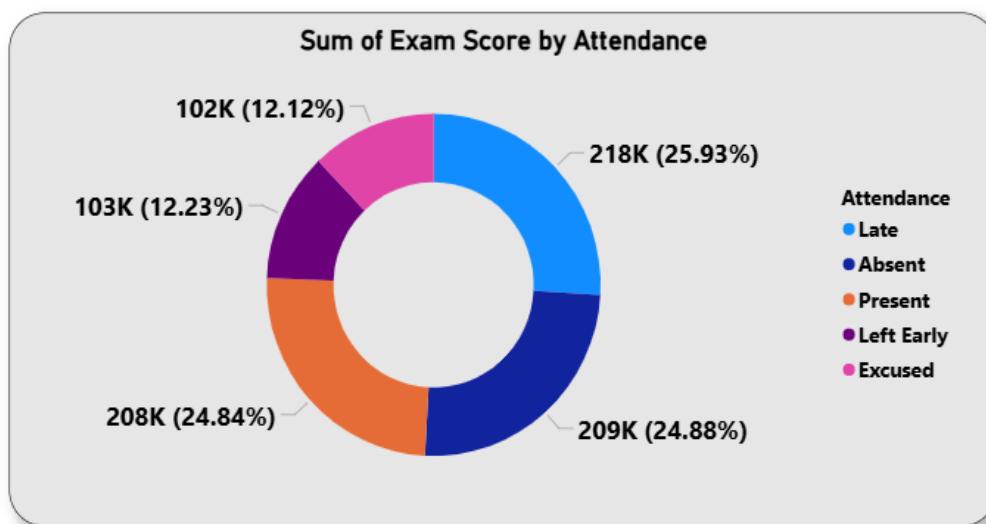
- Here I compared exam score, Grade & Assignment status.
- It helps easily find Assignment done, not done and pending list grade wise.



2) DONUT CHART:

Findings:

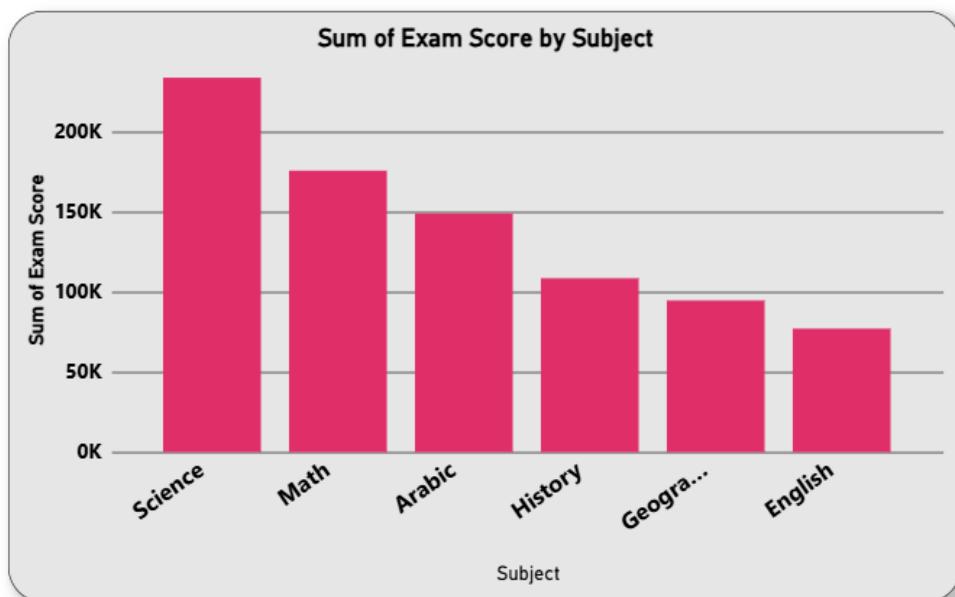
- Here Attendance wise students mark performance will identifying easily.



3) COLUMN CHART:

Findings:

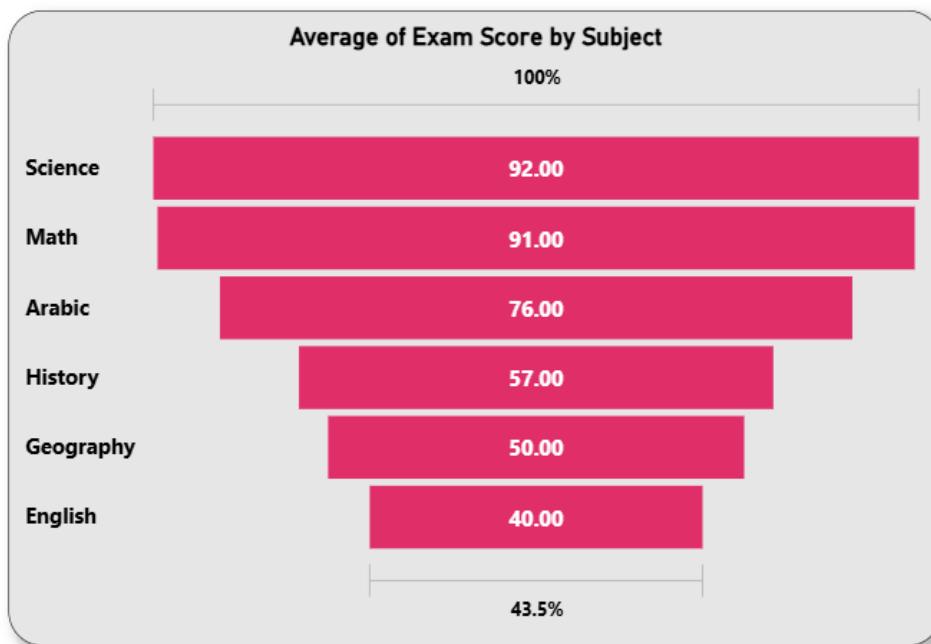
- Here subject wise exam score compared.
- Science mark is highest compare to other subjects.



4) FUNNEL CHART:

Findings:

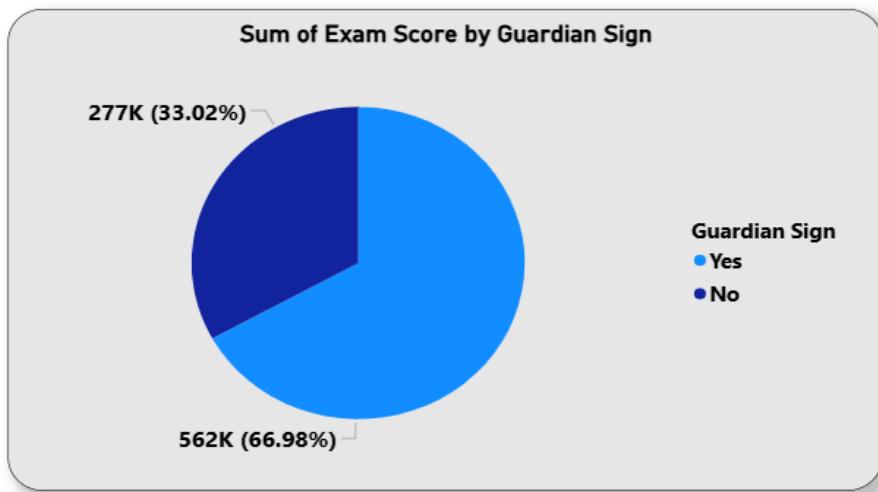
- Here average marks of the subjects are separated from others.
- So, subject wise science only have high average compare to other subjects.



5) PIE CHART:

Findings:

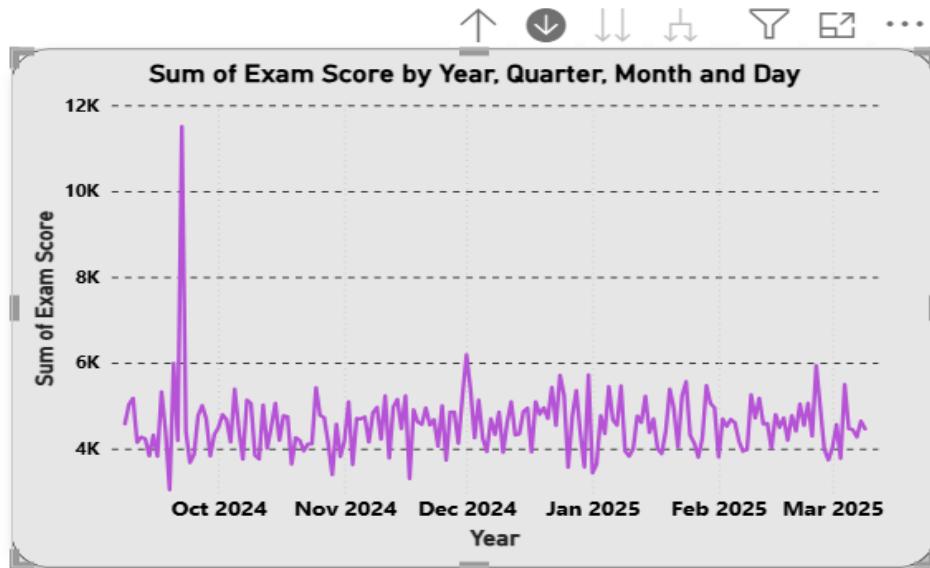
- Here mark wise Guardian signed only viewed.
- Most of the Guardians signed mark wise.



6) LINE CHART:

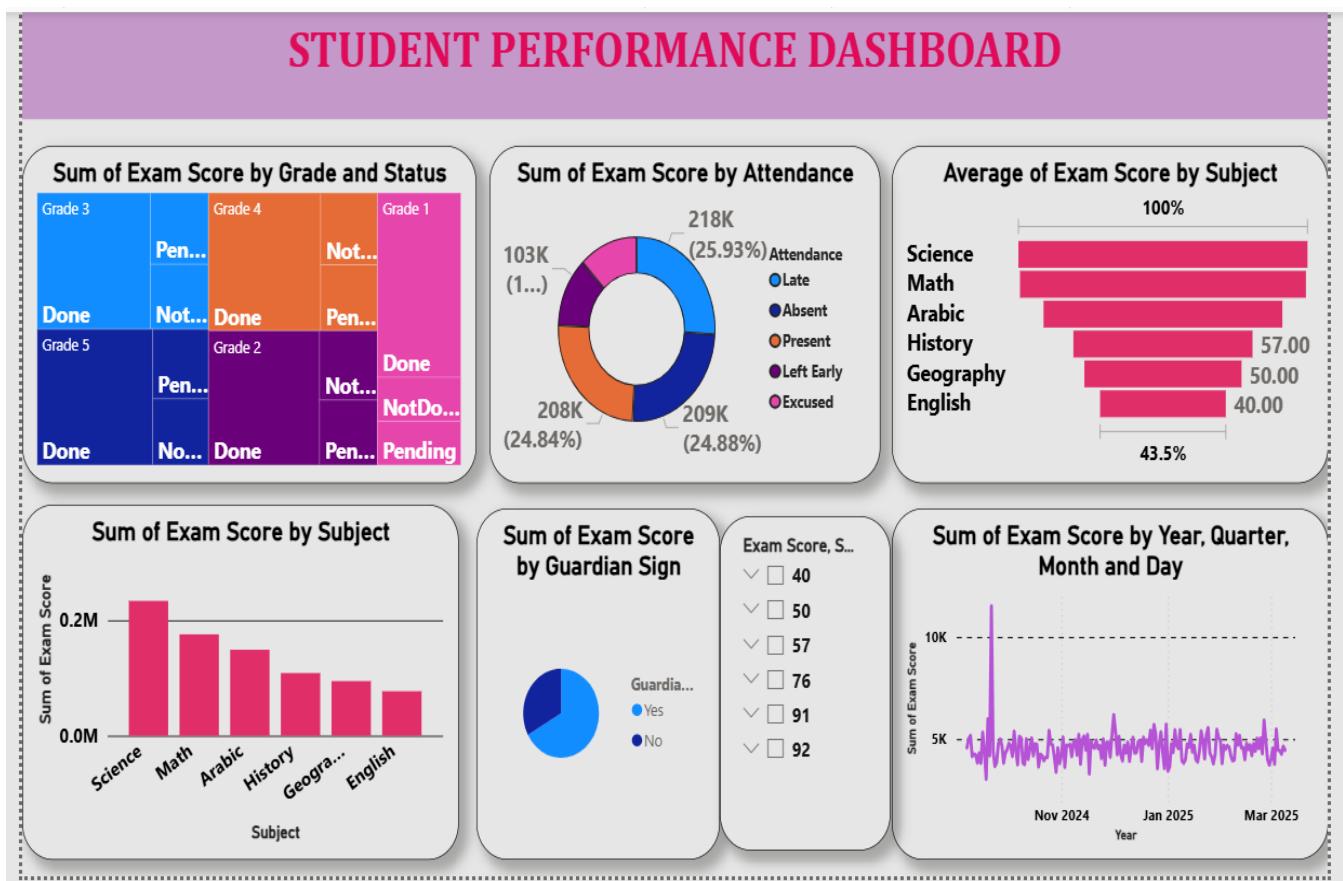
Findings:

- Hierarchy applied here.
- Its helps to find the students who are get more marks in year, quarter, & month wise.
- What are all needs they want, that can find easily.



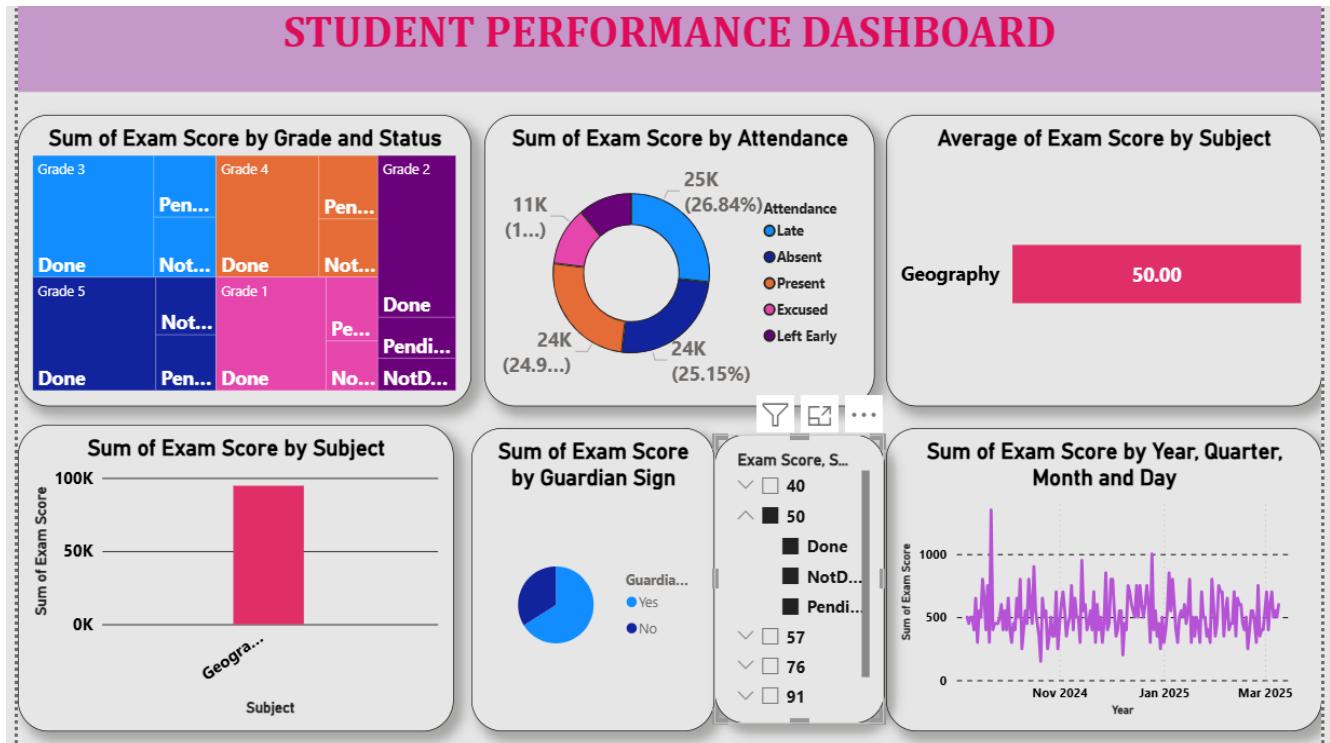
DASH BOARD

MAIN DASHBOARD:



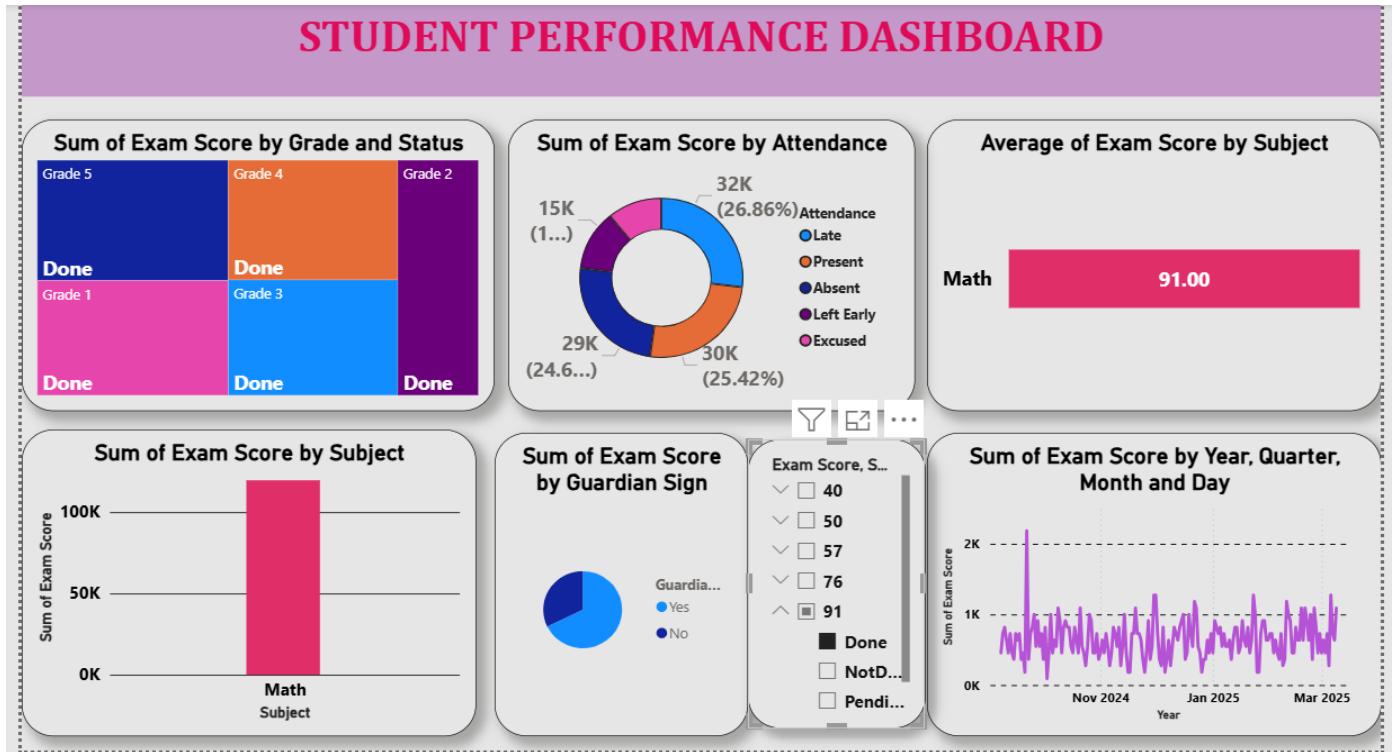
SLICER USED DASHBOARD:

- Exam score 50 marks and Assignment Done, not done, Pending Students lists only.



SLICER USED DASHBOARD:

- Exam score 91 and Assignment only done students list.



INSIGHTS:

- The students are performed well in science subject compare to other subjects.
- Need improvement in English, History, Geography subjects.
- Late, Absent, & Excused students are lot compare to present students.
- Most of the students finished their assignment are done.

CONCLUSION:

In this dashboard provide clear view about student performance. Teachers want to change their teaching pattern like friendly moved with students, and strictly follow the student attendance. Overall, the analysis supports data-driven decision-making for fully know about student level of knowledge.