

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

After

G7												
=XLOOKUP(A7,Table4[Student_ID],Table4[Exam_Score])												
	A	B	C	D	E	F	G	H	I	J	K	
1	Student_ID	First Name	Date Of Birth	Age	Subject	Attendance Status	Exam Score	Assignment	Asst -Status	Performance	Grade Level	
2	S00001	Donna	2/10/2007	18	Math	Late		Record.	âœ		Grade 3	
3	S00002	John	11/26/2014	11	Arabic	Present	98	Head baby.	âœ		90 Grade 5	
4	S00003	Chad	2/7/2017	8	Math	late	63	Keep audience medical free.	Done	-5	Grade 3	
5	S00004	Anthony	11/10/2014	11	Math	absnt	59	Three half peace.	Done	90	Grade 5	
6	S00005	Mary	4/1/2016	9	Math	PRESENT	75	Assume particularly.	âœ	-5	Grade 3	
7	S00006	Joe	6/29/2017	8	Geography	Late	79	Four from kind dark.	Done	-5	Grade 2	
8	S00007	Margaret	12/4/2009	15	Geography	Absent	99	Analysis late human.	âœ		1 Grade 4	
9	S00008	James	1/25/2011	14	Geography	Absent	103	Shake by.	Done	0.8	Grade 1	
10	S00009	Benjamin	10/4/2007	18	Science	PRESENT	89	Oil education large wonder.	âœ	-5	Grade 4	
11	S00010	Aaron	2/18/2012	13	Science	Absent	44	Never bar time personal.	âœ		90 Grade 4	
12	S00011	christopher	2/23/2008	17	Arabic	Late	70	Deal music.	âœ		90 Grade 1	
13	S00012	Jonathan	7/7/2016	9	Geography	left early	66	Sister however.	âœ	-5	Grade 1	
14	S00013	Robert	4/30/2008	17	History	Late	62	Range huge.	âœ		1 Grade 2	
15	S00014	Melanie	8/19/2006	19	Geography	excused	104	Music build check force.	âœ	-5	Grade 4	
16	S00015	Alexandria	6/21/2006	19	History	Present	93	Strategy.	âœ	-5	Grade 2	
17	S00016	Ann	9/2/2007	18	Arabic	left early	60	Movement before.	âœ		90 Grade 3	
18	S00017	Kelly	6/28/2015	10	Math	Absent	48	Strategy family.	âœ		0.8 Grade 2	
19	S00018	Michael	7/21/2008	17	History	PRESENT	53	Alone yeah.	Done		1 Grade 1	
20	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

Attendance Statu
Late
Present
late
absnt
PRESENT
Late
Absent
Absent
PRESENT
Absent
Late
left early
Late
excused
Present
left early
Absent
PRESENT
absnt

After

Attendance
Late
Present
Late
Absent
Present
Late
Absent
Absent
Present
Absent
Late
Left Early
Late
Excused
Present
Left Early
Absent
Present
Absent

4) Date of birth correction

Formula:

=TEXT(C2:C12157,"dd/mm/yyyy")

Before




Date_of_Birth
10-Feb-2007
26-Nov-2014
7-Feb-2017
10-Nov-2014
1-Apr-2016
29-Jun-2017
4-Dec-2009
25-Jan-2011
4-Oct-2007
18-Feb-2012
23-Feb-2008
7-Jul-2016
30-Apr-2008
19-Aug-2006
21-Jun-2006
2-Sep-2007
28-Jun-2015
21-Jul-2008
3-Jan-2015

After

Date Of Birth
10/02/2007
26/11/2014
07/02/2017
10/11/2014
01/04/2016
29/06/2017
04/12/2009
25/01/2011
04/10/2007
18/02/2012
23/02/2008
07/07/2016
30/04/2008
19/08/2006
21/06/2006
02/09/2007
28/06/2015
21/07/2008
03/01/2015

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

Formula:

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

Before

Assignment_Name	
Record.	
Head baby.	
Keep audience medical free.	
Three half peace.	
Assume particularly.	
Four from kind dark.	
Analysis late human.	
Shake by.	
Oil education large wonder.	
Never bar time personal.	
Deal music.	
Sister however.	
Range huge.	
Music build check force.	
Strategy.	
Movement before.	
Strategy family.	
Alone yeah.	
Town start industry.	

After

	G
▼	Assignment
	Heavy consider process report
	Culture claim
	General participant
	Movement before
	Degree society word those
	Question tend local
	Yourself shake
	Fact bag
	Chance born
	Personal environmental fight its
	Man pass court among
	Bag
	Once product force
	Season deal hair
	Technology show work
	Huge travel ask politics
	Too alone exactly enter
	Suffer purpose
	Share full money

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

Formula:

✖ ✓ *fx* =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 Score
92
57
57
57
91
40
50
91
50
91
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

AB_C	Status
	null
	pending
	null
	null
	Done
	pending
	Done
	null
	null
	pending
	Done
	null
	not done
	null
	null
	pending
	null
	pending
	null
	null
	pending

After

AB_C	Status
	Done
	Pending
	Done
	Done
	Done
	Pending
	Done
	Done
	Done
	Pending
	Done
	Done
	NotDone
	Done
	Done
	Pending
	Done
	Pending
	Done
	Done
	Pending

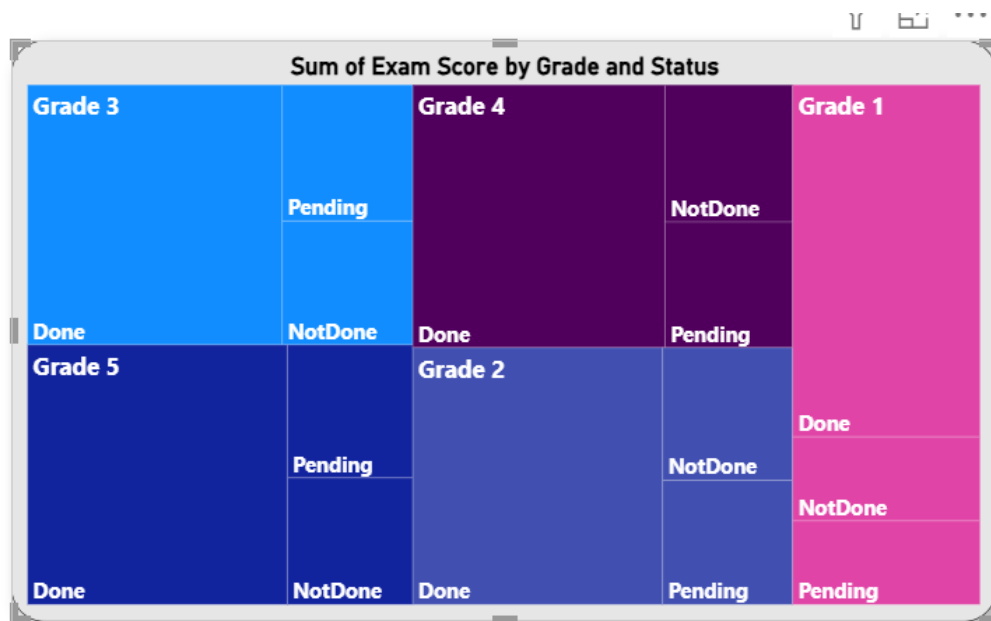
DATA VISUALIZATION

CHARTS:

1) TREE CHART:

Findings:

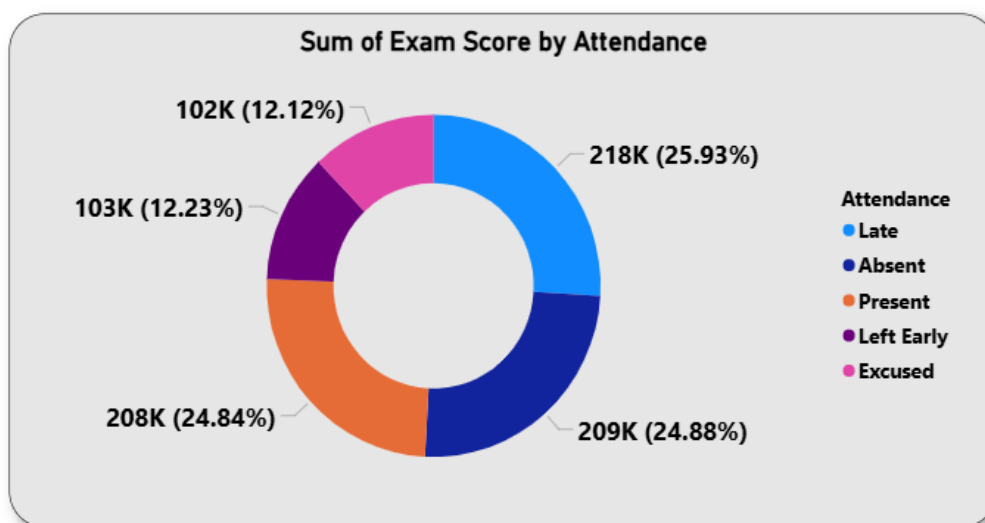
- Here I compared exam score, Grade & Assignment status.
- It helps easily find Assignment done, not done and pending list grade wise.



2) DONUT CHART:

Findings:

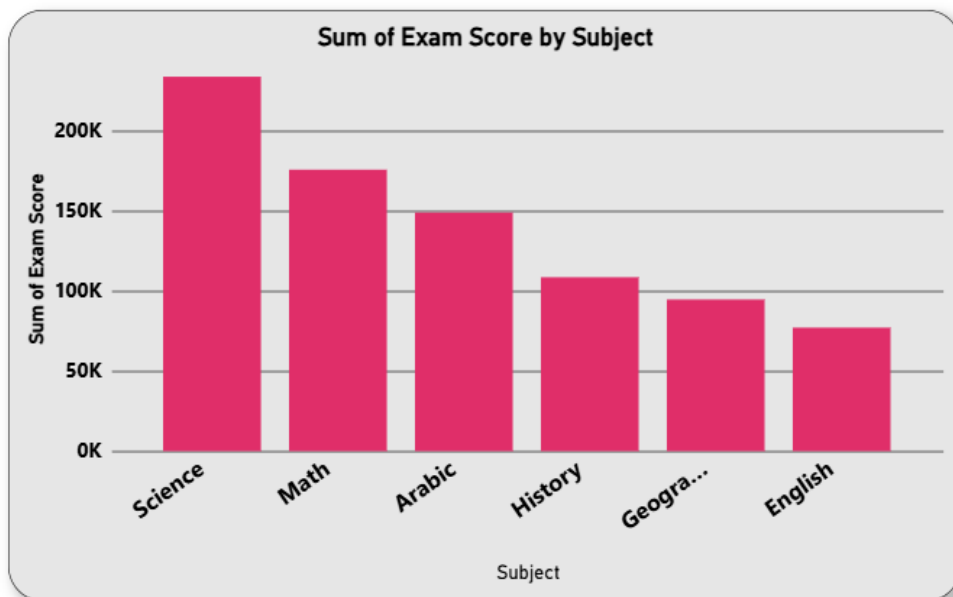
- Here Attendance wise students mark performance will identifying easily.



3) COLUMN CHART:

Findings:

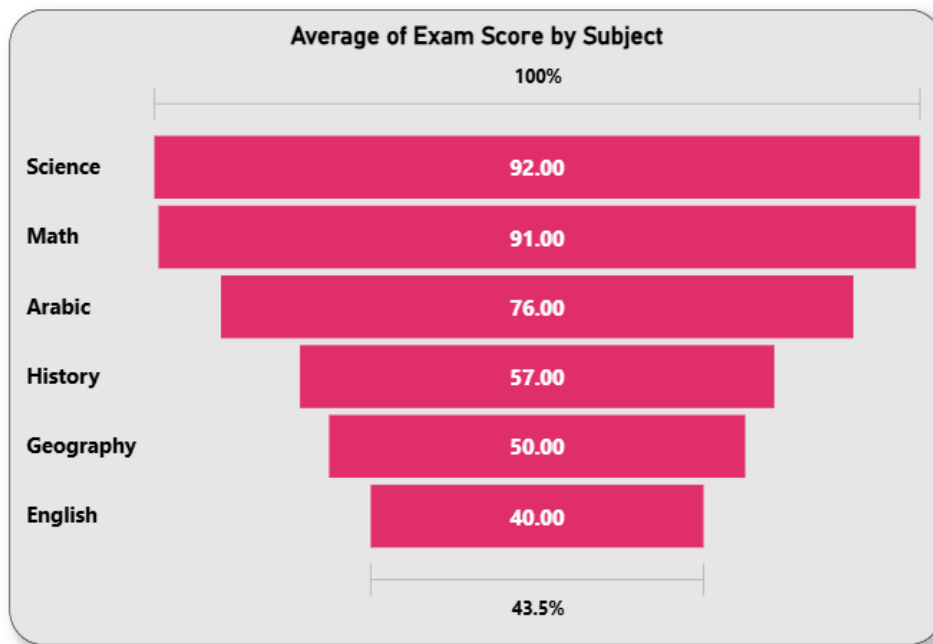
- Here subject wise exam score compared.
- Science mark is highest compare to other subjects.



4) FUNNEL CHART:

Findings:

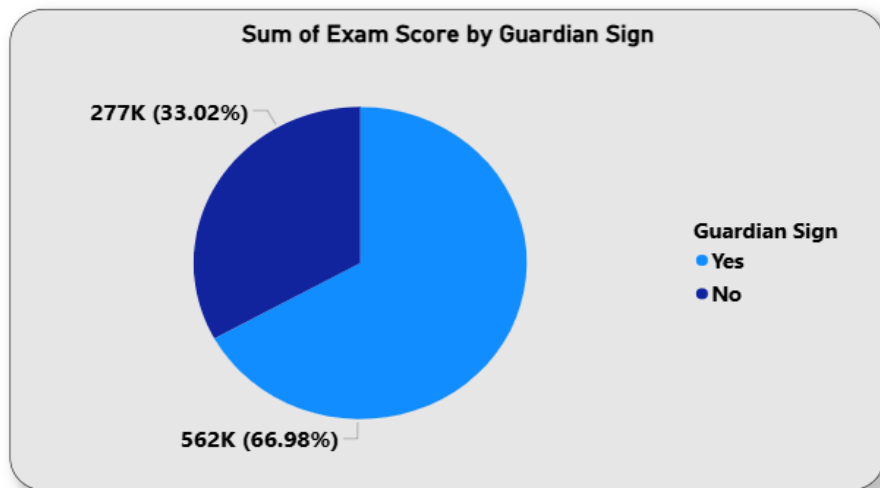
- Here average marks of the subjects are separated from others.
- So, subject wise science only have high average compare to other subjects.



5) ***PIE CHART:***

Findings:

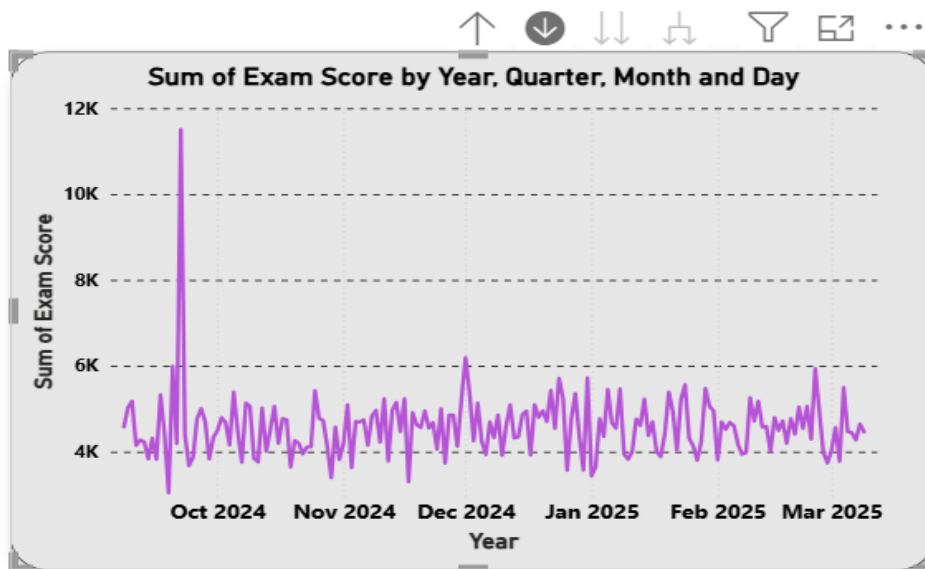
- Here mark wise Guardian signed only viewed.
- Most of the Guardians signed mark wise.



6) LINE CHART:

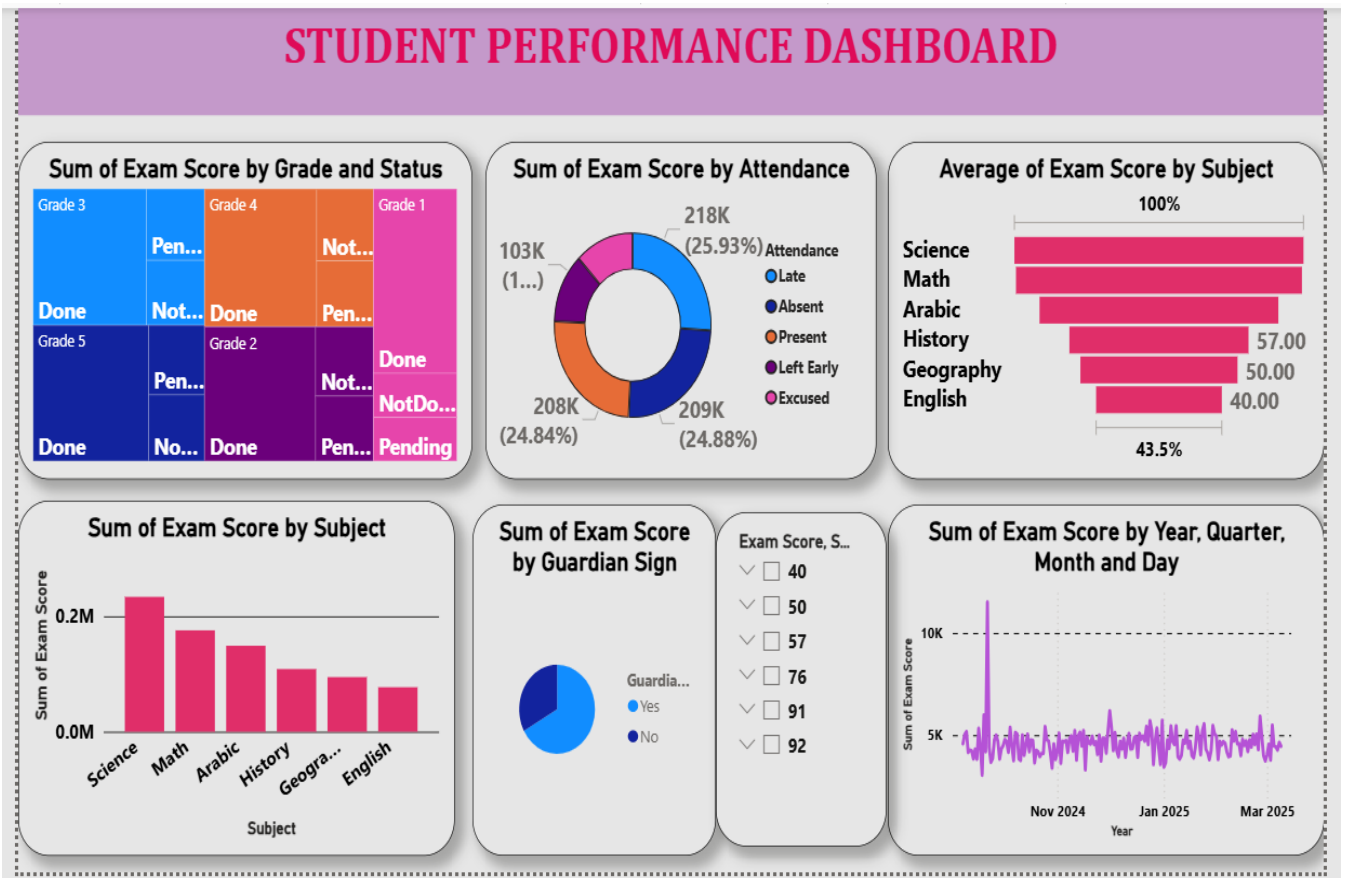
Findings:

- 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.



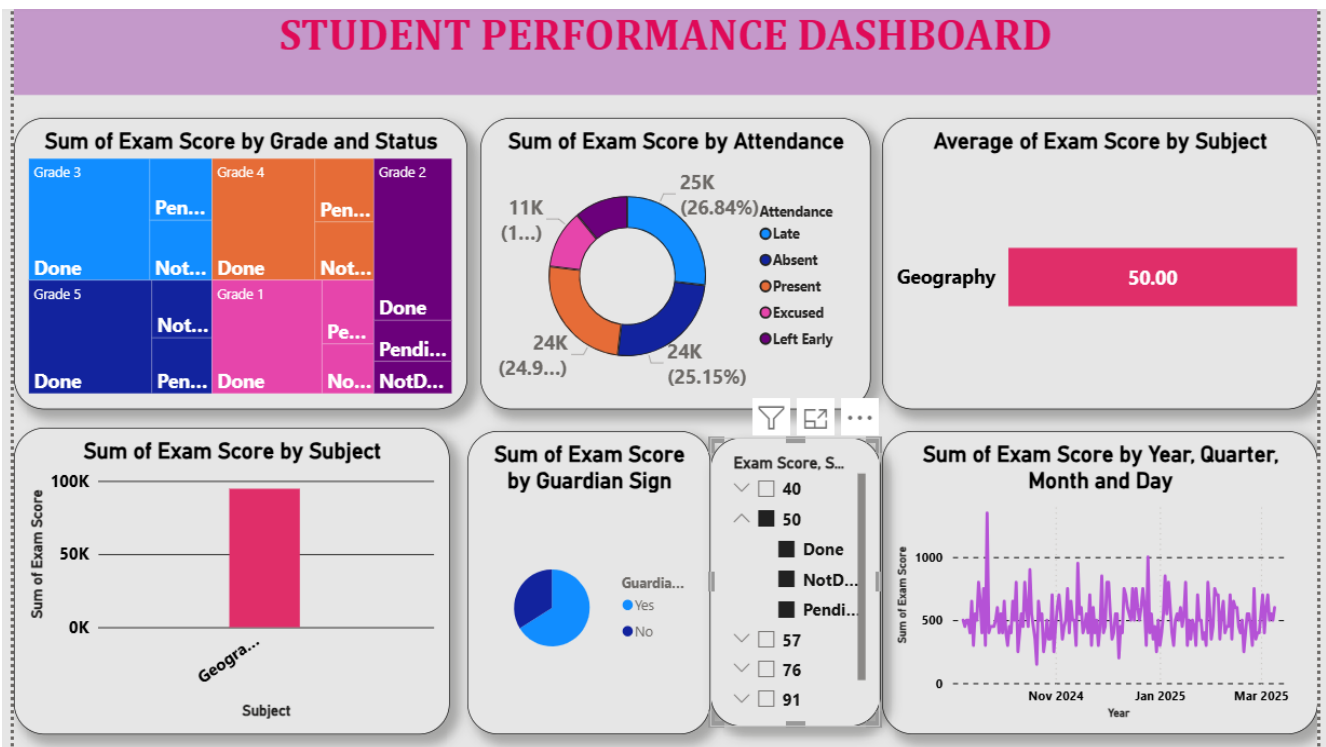
DASH BOARD

MAIN DASHBOARD:



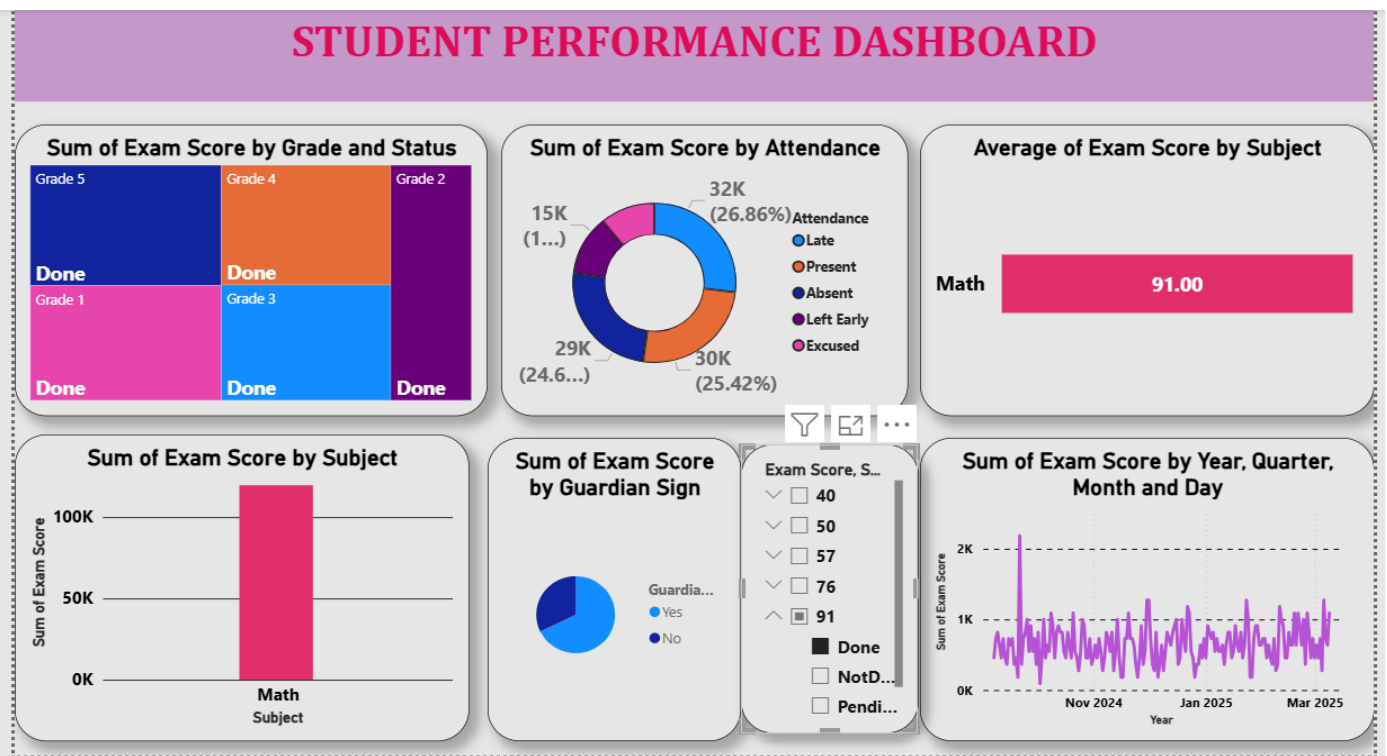
SLICER USED DASHBOARD:

- 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.