Practical 13: Excel Student Result Management

Aim : To analyze student marks using Excel tools.

Objectives
- To apply Excel formulas
- To create charts

Materials Required
- MS Excel

Procedure

1. Enter student data – Input students' names, marks, and other required details into the spreadsheet.

2. Use Flash Fill – Apply Flash Fill to automatically complete patterns such as separating names or formatting data.

3. Replace incorrect values – Identify errors and use Find & Replace or manual correction to fix inaccurate entries.

4. Calculate pass/fail using IF – Create an IF formula to determine whether each student passes or fails based on their score.

5. Use COUNTIF and AVERAGE – Apply COUNTIF to count specific results and AVERAGE to compute the class's mean score.

6. Create charts – Generate visual charts to represent student performance trends or score distributions.

7. Apply conditional formatting – Use color-based formatting to highlight important values, such as low scores or top performers.

OUTPUT :

a) Student_Data

A1   *fx*   Student Result Management

Student Result Management

Name	First Name	Last Name	Roll No	Class	City	Marks (ENGLISH)	Marks (MATHS)	Marks (SCIENCE)	Total	Remark
Rahul Verma	Rahul	Verma	1	9	Delhii	78	82	75	235	Pass
Neha Sharma	Neha	Sharma	2	9	Jaipur	85	10	88	183	Pass
Aman Khan	Aman	Khan	3	9	Lucknow	90	92	86	268	Pass
Pooja Patel	Pooja	Patel	4	9	Surat	50	10	40	100	Fail
Suresh Das	Suresh	Das	5	9	Delhii	88	84	79	251	Pass
Ankit Singh	Ankit	Singh	6	9	Patna	20	10	20	50	Fail
Riya Gupta	Riya	Gupta	7	9	Noida	92	89	94	275	Pass
Mohit Jain	Mohit	Jain	8	9	Indore	81	77	85	243	Pass
Sneha Iyer	Sneha	Iyer	9	9	Chennai	90	88	91	269	Pass
Karan Malhotra	Karan	Malhotra	10	9	Chandigarh	74	79	82	235	Pass
Aditi Rao	Aditi	Rao	11	9	Bengaluru	86	83	88	257	Pass
Nikhil Pawar	Nikhil	Pawar	12	9	Pune	89	91	87	267	Pass
Simran Kaur	Simran	Kaur	13	9	Delhii	80	85	78	243	Pass
Arjun Mehta	Arjun	Mehta	14	9	Mumbai	93	90	92	275	Pass
Kavya Nair	Kavya	Nair	15	9	Kochi	87	84	89	260	Pass

Student_Data   Marks_Analysis   Charts

b) Marks_Analysis

A1   *fx*   Student Result Management

Student Result Management

Name	First Name	Last Name	Roll No	Class	City	Marks (ENGLISH)	Marks (MATHS)	Marks (SCIENCE)	Total	Remark	Average
Rahul Verma	Rahul	Verma	1	9	Delhii	78	82	75	235	Pass	59.5
Neha Sharma	Neha	Sharma	2	9	Jaipur	85	10	88	183	Pass	46.5
Aman Khan	Aman	Khan	3	9	Lucknow	90	92	86	268	Pass	67.75
Pooja Patel	Pooja	Patel	4	9	Surat	50	10	40	100	Fail	25.75
Suresh Das	Suresh	Das	5	9	Delhii	88	84	79	251	Pass	63.5
Ankit Singh	Ankit	Singh	6	9	Patna	20	10	20	50	Fail	13.25
Riya Gupta	Riya	Gupta	7	9	Noida	92	89	94	275	Pass	69.5
Mohit Jain	Mohit	Jain	8	9	Indore	81	77	85	243	Pass	61.5
Sneha Iyer	Sneha	Iyer	9	9	Chennai	90	88	91	269	Pass	68
Karan Malhotra	Karan	Malhotra	10	9	Chandigarh	74	79	82	235	Pass	59.5
Aditi Rao	Aditi	Rao	11	9	Bengaluru	86	83	88	257	Pass	65
Nikhil Pawar	Nikhil	Pawar	12	9	Pune	89	91	87	267	Pass	67.5
Simran Kaur	Simran	Kaur	13	9	Delhii	80	85	78	243	Pass	61.5
Arjun Mehta	Arjun	Mehta	14	9	Mumbai	93	90	92	275	Pass	69.5
Kavya Nair	Kavya	Nair	15	9	Kochi	87	84	89	260	Pass	65.75

pass	fail
13	2

Student_Data   Marks_Analysis   Charts

c) Charts

Chart Title

Chart Title

pass fail

Student_Data Marks_Analysis Charts