

## **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~

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**Student\_data**

|    | Name           | Roll No | Class | City       | Subj1   | Marks1 | Subj2    | Marks2 | Subj3     | Marks3 | Total Marks | First Name     | Last Name | Pass/Fail | count(belong to delhi) | Pass/Fail2 | Counts |
|----|----------------|---------|-------|------------|---------|--------|----------|--------|-----------|--------|-------------|----------------|-----------|-----------|------------------------|------------|--------|
| 2  | Rahul Verma    | 1       | 9     | delhi      | Math    | 78     | Science  | 82     | English   | 75     | 235         | Rahul Verma    | pass      |           | 3                      | Pass       | 13     |
| 3  | Neha Sharma    | 2       | 9     | Jaipur     | English | 85     | History  | 80     | Science   | 88     | 253         | Neha Sharma    | pass      |           |                        | Fail       | 2      |
| 4  | Aman Khan      | 3       | 9     | Lucknow    | Math    | 90     | Computer | 92     | Science   | 86     | 268         | Aman Khan      | pass      |           |                        |            |        |
| 5  | Pooja Patel    | 4       | 9     | Surat      | Math    | 50     | English  | 10     | Hindi     | 40     | 100         | Pooja Patel    | fail      |           |                        |            |        |
| 6  | Suresh Das     | 5       | 9     | delhi      | Science | 88     | Math     | 84     | Geography | 79     | 251         | Suresh Das     | pass      |           |                        |            |        |
| 7  | Ankit Singh    | 6       | 9     | Patna      | Math    | 60     | Science  | 10     | English   | 20     | 90          | Ankit Singh    | fail      |           |                        |            |        |
| 8  | Riya Gupta     | 7       | 9     | Noida      | English | 92     | Science  | 89     | Computer  | 94     | 275         | Riya Gupta     | pass      |           |                        |            |        |
| 9  | Mohit Jain     | 8       | 9     | Indore     | Math    | 81     | English  | 77     | Science   | 85     | 243         | Mohit Jain     | pass      |           |                        |            |        |
| 10 | Sneha Iyer     | 9       | 9     | Chennai    | Science | 90     | Math     | 88     | English   | 91     | 269         | Sneha Iyer     | pass      |           |                        |            |        |
| 11 | Karan Malhotra | 10      | 9     | Chandigarh | Math    | 74     | Science  | 79     | Computer  | 82     | 235         | Karan Malhotra | pass      |           |                        |            |        |
| 12 | Aditi Rao      | 11      | 9     | Bengaluru  | English | 86     | History  | 83     | Science   | 88     | 257         | Aditi Rao      | pass      |           |                        |            |        |
| 13 | Nikhil Pawar   | 12      | 9     | Pune       | Math    | 89     | Science  | 91     | Geography | 87     | 267         | Nikhil Pawar   | pass      |           |                        |            |        |
| 14 | Simran Kaur    | 13      | 9     | delhi      | English | 80     | Punjabi  | 85     | Science   | 78     | 243         | Simran Kaur    | pass      |           |                        |            |        |
| 15 | Arjun Mehta    | 14      | 9     | Mumbai     | Math    | 93     | Science  | 90     | English   | 92     | 275         | Arjun Mehta    | pass      |           |                        |            |        |
| 16 | Kavya Nair     | 15      | 9     | Kochi      | Science | 87     | Math     | 84     | English   | 89     | 260         | Kavya Nair     | pass      |           |                        |            |        |
| 17 |                |         |       |            |         |        |          |        |           |        |             |                |           |           |                        |            |        |
| 18 |                |         |       |            |         |        |          |        |           |        |             |                |           |           |                        |            |        |
| 19 |                |         |       |            |         |        |          |        |           |        |             |                |           |           |                        |            |        |
| 20 |                |         |       |            |         |        |          |        |           |        |             |                |           |           |                        |            |        |
| 21 |                |         |       |            |         |        |          |        |           |        |             |                |           |           |                        |            |        |
| 22 |                |         |       |            |         |        |          |        |           |        |             |                |           |           |                        |            |        |
| 23 |                |         |       |            |         |        |          |        |           |        |             |                |           |           |                        |            |        |
| 24 |                |         |       |            |         |        |          |        |           |        |             |                |           |           |                        |            |        |

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**Marks\_Analysis**

|    | Name           | Roll No | Class | City       | Subj1   | Marks1 | Subj2    | Marks2 | Subj3     | Marks3 | Average | Min | Max |  |
|----|----------------|---------|-------|------------|---------|--------|----------|--------|-----------|--------|---------|-----|-----|--|
| 2  | Rahul Verma    | 1       | 9     | delhi      | Math    | 78     | Science  | 82     | English   | 75     | 78      | 75  | 82  |  |
| 3  | Neha Sharma    | 2       | 9     | Jaipur     | English | 85     | History  | 80     | Science   | 88     | 84      | 80  | 88  |  |
| 4  | Aman Khan      | 3       | 9     | Lucknow    | Math    | 90     | Computer | 92     | Science   | 86     | 89      | 86  | 92  |  |
| 5  | Pooja Patel    | 4       | 9     | Surat      | Math    | 50     | English  | 10     | Hindi     | 40     | 33      | 10  | 50  |  |
| 6  | Suresh Das     | 5       | 9     | delhi      | Science | 88     | Math     | 84     | Geography | 79     | 84      | 79  | 88  |  |
| 7  | Ankit Singh    | 6       | 9     | Patna      | Math    | 60     | Science  | 10     | English   | 20     | 30      | 10  | 60  |  |
| 8  | Riya Gupta     | 7       | 9     | Noida      | English | 92     | Science  | 89     | Computer  | 94     | 92      | 89  | 94  |  |
| 9  | Mohit Jain     | 8       | 9     | Indore     | Math    | 81     | English  | 77     | Science   | 85     | 81      | 77  | 85  |  |
| 10 | Sneha Iyer     | 9       | 9     | Chennai    | Science | 90     | Math     | 88     | English   | 91     | 90      | 88  | 91  |  |
| 11 | Karan Malhotra | 10      | 9     | Chandigarh | Math    | 74     | Science  | 79     | Computer  | 82     | 78      | 74  | 82  |  |
| 12 | Aditi Rao      | 11      | 9     | Bengaluru  | English | 86     | History  | 83     | Science   | 88     | 86      | 83  | 88  |  |
| 13 | Nikhil Pawar   | 12      | 9     | Pune       | Math    | 89     | Science  | 91     | Geography | 87     | 89      | 87  | 91  |  |
| 14 | Simran Kaur    | 13      | 9     | delhi      | English | 80     | Punjabi  | 85     | Science   | 78     | 81      | 78  | 85  |  |
| 15 | Arjun Mehta    | 14      | 9     | Mumbai     | Math    | 93     | Science  | 90     | English   | 92     | 92      | 90  | 93  |  |
| 16 | Kavya Nair     | 15      | 9     | Kochi      | Science | 87     | Math     | 84     | English   | 89     | 87      | 84  | 89  |  |
| 17 |                |         |       |            |         |        |          |        |           |        |         |     |     |  |
| 18 |                |         |       |            |         |        |          |        |           |        |         |     |     |  |
| 19 |                |         |       |            |         |        |          |        |           |        |         |     |     |  |
| 20 |                |         |       |            |         |        |          |        |           |        |         |     |     |  |
| 21 |                |         |       |            |         |        |          |        |           |        |         |     |     |  |
| 22 |                |         |       |            |         |        |          |        |           |        |         |     |     |  |
| 23 |                |         |       |            |         |        |          |        |           |        |         |     |     |  |
| 24 |                |         |       |            |         |        |          |        |           |        |         |     |     |  |

