

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.

FULL NAME	FIRST NAME	LAST NAME	CLASS	ROLL NO.	STATE	ENG MARKS	PHY MARKS	MATHS MARKS	TOTAL MARKS	AVERAGE	RESULT	NO.OF STUDENT PASS	NO.OF STUDENT FAIL	CLASS AVG(OVERALL)	P	Q	R
SHIVAM RAJ	SHIVAM	RAJ	9	1	BHAR	18	45	43	103	34	FAIL	7	8	58			
RAHUL PAHARIYA	RAHUL	PAHARIYA	9	2	BHOPAL	57	47	46	150	50	PASS						
RAUNAK BHARDWAJ	RAUNAK	BHARDWAJ	9	3	SRI NAGAR	59	49	49	157	52	PASS						
ADITYA SINGH	ADITYA	SINGH	9	4	DEHRADUN	57	51	50	158	52	PASS						
NITISH RAJAK	NITISH	RAJAK	9	5	CHHATISGARH	63	54	55	171	57	PASS						
AMIT MANDAL	AMIT	MANDAL	9	6	JHARKHAND	65	55	22	142	47	FAIL						
SHIVAM KUMAR	SHIVAM	KUMAR	9	7	BHAR	67	33	61	161	54	FAIL						
RAJA SINGH	RAJA	SINGH	9	8	MUMBAI	69	59	64	192	64	PASS						
RANJIT SINGH	RANJIT	SINGH	9	9	UTTARAKHAND	29	61	67	157	52	FAIL						
RAVINDRA RAJANI	RAVINDRA	RAJANI	9	10	SRINAGAR	58	60	60	178	57	PASS						
RAJU MEHTA	RAJU	MEHTA	9	11	GOA	76	65	73	213	71	PASS						
ANAND KUMAR	ANAND	KUMAR	9	12	JAMMU & KASHMIR	77	67	76	220	73	PASS						
AKASH MAHATO	AKASH	MAHATO	9	13	GUJARAT	79	69	79	227	76	PASS						
ANKIT RAO	ANKIT	RAO	9	14	HARYANA	81	31	82	194	65	FAIL						
SHURYA ROY	SHURYA	ROY	9	15	UTTARPRADESH	83	38	85	206	69	FAIL						

FULL NAME	FIRST NAME	LAST NAME	CLASS	ROLL NO.	STATE	ENG MARKS	PHY MARKS	MATHS MARKS	TOTAL	AVERAGE	RESULT	NO.OF STUDENT PASS	NO.OF STUDENT FAIL	CLASS AVG(OVERALL)	MAX	MIN	
SHRIMPUS RAJ	SHRIMPUS	RAJ	9	1	SRINAGAR	18	45	43	103	34	FAIL	7	8	58	227	103	
RAHUL PAHARIYA	RAHUL	PAHARIYA	9	2	BHOPAL	57	47	46	150	50	PASS						
RAUNAK BHAR RAUNAK BHARDWAJ	RAUNAK	BHARDWAJ	9	3	SRI NAGAR	59	49	49	157	52	PASS						
ADITYA SINGH ADITYA SINGH	ADITYA	SINGH	9	4	DEHRADUN	57	51	52	156	52	FAIL						
ATISH MEHTA ATISH MEHTA	ATISH	MEHTA	9	5	CHHATISGARH	63	55	55	173	57	PASS						
AMIT MANDAL AMIT MANDAL	AMIT	MANDAL	9	6	JHARKHAND	65	55	22	142	47	FAIL						
SHIVAM KUMAR SHIVAM KUMAR	SHIVAM	KUMAR	9	7	BHAR	67	33	61	161	54	FAIL						
RAJA SINGH RAJA SINGH	RAJA	SINGH	9	8	MUMBAI	69	59	64	192	64	PASS						
RANJIT SINGH RANJIT SINGH	RANJIT	SINGH	9	9	JHARKHAND	29	61	60	150	50	FAIL						
RAJU MEHTA RAJU MEHTA	RAJU	MEHTA	9	10	SIKIM	36	63	70	171	57	FAIL						
ANAND KUMAR ANAND KUMAR	ANAND	KUMAR	9	11	GOA	76	65	73	213	71	PASS						
AKASH MAHATO AKASH MAHATO	AKASH	MAHATO	9	12	JAMMU & KASHMIR	77	67	76	220	73	PASS						
ANKIT RAO ANKIT RAO	ANKIT	RAO	9	13	HARYANA	81	31	82	194	65	FAIL						
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