

Experiment No. 1.1

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Branch: MCA - CCD

Semester: II

Subject Name: Business Analytics

UID: 22MCC20039

Section/Group: MCD-1/ Grp A

Date of Performance: 10th Aug 23

Subject Code: 22CAH-703

1. Aim/Overview of the practical:

a) Formatting the worksheet using logical formula IF Statement, Nested IF, AND, OR, NOT, IFERROR, SUMIF, AVERAGEIF, COUNTIF and AVERAGEIF)

b) Create and apply formulas as per user requirements.

2. Code for practical:

- Performing following formula for following table.

Name	Marks
Student 1	72
Student 2	85
Student 3	69
Student 4	39
Student 5	55
Student 6	92
Student 7	61
Student 8	54

- IF Statement:** To check if marks are greater than 50 for, then print PASS else FAIL.

`=IF(D5>50, "PASS", "FAIL")`

Name	Marks	Pass/Fail
Student 1	72	PASS
Student 2	85	PASS
Student 3	69	PASS
Student 4	39	FAIL
Student 5	55	PASS
Student 6	92	PASS
Student 7	61	PASS
Student 8	54	PASS

- **NESTED IF:** To enter grades, we use nested if to provide grades.

=IF(AND(D6>=80, D6<=100), "Distinction", IF(AND(D6>=60, D6<=79), "Passed", "FAIL"))

Name	Marks	Pass/Fail	Grade
Student 1	72	PASS	C
Student 2	85	PASS	B
Student 3	69	PASS	D
Student 4	39	FAIL	FAIL
Student 5	55	PASS	E
Student 6	92	PASS	A
Student 7	61	PASS	D
Student 8	54	PASS	E

- **AND:** If marks are greater than equal 80 and less than equal to 100, print Distinction, if marks are greater than equal to 60 and less than equal to 79.

=IF(AND(D6>=80, D6<=100), "Distinction", IF(AND(D6>=60, D6<=79), "Passed", "FAIL"))

Name	Marks	Pass/Fail	Grade	Grade
Student 1	72	PASS	C	Passed
Student 2	85	PASS	B	Distinction
Student 3	69	PASS	D	Passed
Student 4	39	FAIL	FAIL	FAIL
Student 5	55	PASS	E	FAIL
Student 6	92	PASS	A	Distinction
Student 7	61	PASS	D	Passed
Student 8	54	PASS	E	FAIL

- **OR:** If marks are greater than equal 80, print Distinction, if marks are greater than equal to 60 or less than equal to 79.

=IF(OR(D5>=80), "Distinction", IF(OR(D5>=60, D5<=79), "Passed", "FAIL"))

Name	Marks	Pass/Fail	Grade	Grade	Grade
Student 1	72	PASS	C	Passed	Passed
Student 2	85	PASS	B	Distinction	Distinction
Student 3	69	PASS	D	Passed	Passed
Student 4	39	FAIL	FAIL	FAIL	Passed
Student 5	55	PASS	E	FAIL	Passed
Student 6	92	PASS	A	Distinction	Distinction
Student 7	61	PASS	D	Passed	Passed
Student 8	54	PASS	E	FAIL	Passed

- **NOT:** Select any cell with logical value and use =NOT(cell_name).
- **IF ERROR:** =IFERROR(D9/D17, "Error")
- **AVERAGEIF:** =AVERAGEIF(F6:F12, "Passed", D6:D13)
- **COUNTIF:** =COUNTIF(D5:D12, ">=80")

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Name	Marks	Pass/Fail	Grade	Grade	Grade
Student 1	72	PASS	C	Passed	Passed
Student 2	85	PASS	B	Distinction	Distinction
Student 3	69	PASS	D	Passed	Passed
Student 4	39	FAIL	FAIL	FAIL	Passed
Student 5	55	PASS	E	FAIL	Passed
Student 6	92	PASS	A	Distinction	Distinction
Student 7	61	PASS	D	Passed	Passed
Student 8	54	PASS	E	FAIL	Passed
SUMIF	177				
AVERAGEIF	67.3333				
COUNTIF	2				