

LAB FILE

Q1. Enter the marks of 20 students in the given

order

Serial Number

Name of the

Student

Name of the college

Class

Subject -1

Subject -2

Subject -3

Subject -4

In a separate columns, perform the following operations

Calculate the following

a.) Total marks of all the subjects

b.) Percentage of marks for each of the

students

c.) Allotment of grades based on

the criterion.

If the marks are more than 75% then the result is "Pass" else "Fail"

d.) Now in other column allot the grades based on the following

criterion

If the marks are more than 90% then grade is "A"

If the marks are more than or equal to 75 and less than 90% then the grade is "B" else

the grade is "C" provided that the result is "Pass"

	D	E	F	G	H	I	J	K	L
	Class	Subject - 1	Subject - 2	Subject - 3	Subject - 4	Total Marks	Percentage	Result - 1	Result - 2
1									
2	12th	90	80	0	84	254	63.5	FAIL	C
3	12th	75	45	89	90	299	74.75	FAIL	C
4	12th	80	0	84	78	242	60.5	FAIL	C
5	12th	75	75	75	75	300	75	FAIL	B
6	12th	88	86	89	47	310	77.5	PASS	B
7	12th	89	80	0	84	253	63.25	FAIL	C
8	12th	85	45	89	90	309	77.25	PASS	B
9	12th	75	45	89	80	289	72.25	FAIL	C
10	12th	80	0	84	45	209	52.25	FAIL	C
11	12th	45	89	90	38	262	65.5	FAIL	C
12	12th	38	75	45	90	248	62	FAIL	C
13	12th	90	80	0	67	237	59.25	FAIL	C
14	12th	67	45	89	84	285	71.25	FAIL	C
15	12th	84	80	80	76	320	80	PASS	B
16	12th	99	45	45	80	269	67.25	FAIL	C
17	12th	55	38	38	45	176	44	FAIL	C
18	12th	65	90	90	38	283	70.75	FAIL	C
19	12th	76	67	67	90	300	75	FAIL	B
20	12th	87	84	84	67	322	80.5	PASS	B
21	12th	84	86	87	84	341	85.25	PASS	B

2. From the following table, calculate the following

City	Number of Schools	Number of Candidates
New Delhi	300	30000
Mumbai	450	45000
Bengaluru	500	48000
Chennai	480	67000
Trivandrum	459	77000

- The average number of students in the entire distribution
- The standard deviation of the distribution
- The correlation coefficient between the number of schools and the number of candidates
- The regression equation between the number of students and the number of candidates

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The average number of students in the entire distribution

City	Number of Schools x	Number of Candidates f	fx
Delhi	300	30000	9000000
Mumbai	450	45000	20250000
Bengaluru	500	48000	24000000
Chennai	480	67000	32160000
Trivandrum	459	77000	35343000
		267000	120753000

mean= **452.258427**

$$\bar{x} = \frac{\sum fx}{\sum f}$$

The standard deviation of the distribution

City	Number of Schools x_i	Number of candidates f_i	$f x_i$	x_i^2	$f_i x_i^2$
Delhi	300	30000	9000000	90000	2700000000
Mumbai	450	45000	20250000	202500	9112500000
Bengaluru	500	48000	24000000	250000	12000000000
Chennai	480	67000	32160000	230400	15436800000
Trivandrum	459	77000	35343000	210681	16222437000
	2189	267000	120753000		55471737000

mean= 452.2584
square(mean)= 204537.7

$$SD = \sqrt{\text{Var}(X)}$$

Var(x)=($f_i \times \text{Square}(x_i) / f_i$)-

Square(mean)Var(x)= 3221.63

SD= 56.7594

3. From the following data calculate the

Base City	Department	Client	Location	Nationality
New Delhi	Marketing	Adidas	New York	American
Mumbai	Advertising	Hilfiger	London	English
Bengaluru	Human Resource	Woodland	Paris	Spanish
Chennai	Human Resource	Nike	Sydney	Dutch
Trivandrum	Advertising	Allen Solley	Frankfurt	Japanese
New Delhi	Quality Control	Adidas	New York	American
Mumbai	Advertising	Hilfiger	Seoul	Korean
Bengaluru	Human Resource	Woodland	Paris	Spanish
Chennai	Human Resource	Nike	Sydney	Dutch
Trivandrum	Advertising	Armani	Frankfurt	Russian
New Delhi	Marketing	Adidas	New York	American
Mumbai	Production	Hilfiger	Copenhagen	English
Bengaluru	Human Resource	Woodland	Paris	Spanish
Chennai	Human Resource	Nike	Sydney	Russian
Trivandrum	Advertising	Gucci	Frankfurt	Japanese
New Delhi	Quality Control	Adidas	New York	American
Mumbai	Advertising	Hilfiger	London	Korean
Bengaluru	Human Resource	Woodland	Paris	Spanish
Chennai	Human Resource	Nike	Sydney	Dutch
Trivandrum	Advertising	Allen Solley	Frankfurt	Japanese

Using Pivot table, determine

- The number of Nationality per Location
- The number of Department / location / client
- The number of client / location / nationality

The number of Nationality per Location

A	B	C	D	E	F	G
Base City	Department	Client	Location	Nationality	Row La <input type="text"/>	Count of Nationality
New Delhi	Marketing	Adidas	New York	American	Copenhag	1
Mumbai	Advertising	shadab	London	English	Frankfurt	4
Bengaluru	Human Resource	Woodland	Paris	Spanish	London	2
Chennai	Human Resource	Nike	Sydney	Dutch	New York	4
Trivandrum	Advertising	Allen Solley	Frankfurt	Japanese	Paris	4
New Delhi	Quality Control	Adidas	New York	American	Seoul	1
Mumbai	Advertising	Hilfiger	Seoul	Korean	Sydney	4
Bengaluru	Human Resource	Woodland	Paris	Spanish	Grand Tot	20
Chennai	Human Resource	Nike	Sydney	Dutch		
Trivandrum	Advertising	Armani	Frankfurt	Russian		
New Delhi	Marketing	Adidas	New York	American		
Mumbai	Production	Hilfiger	Copenhagen	English		
Bengaluru	Human Resource	Woodland	Paris	Spanish		
Chennai	Human Resource	Nike	Sydney	Russian		
Trivandrum	Advertising	Gucci	Frankfurt	Japanese		
New Delhi	Quality Control	Adidas	New York	American		
Mumbai	Advertising	Hilfiger	London	Korean		
Bengaluru	Human Resource	Woodland	Paris	Spanish		
Chennai	Human Resource	Nike	Sydney	Dutch		
Trivandrum	Advertising	Allen Solley	Frankfurt	Japanese		

The number of Department / location / client

A	B	C	D	E	F	G	H	I	J	K	L	M	N
Base City	Department	Client	Location	Nationality	Count of Department / location / client								
New Delhi	Marketing	Adidas	New York	American	Count of Department / location / client								
Mumbai	Advertising	Shadab	London	English	Row Labels	Copenhagen	Frankfurt	London	New York	Paris	Seoul	Sydney	Grand Total
Bengaluru	Human Resource	Woodland	Paris	Spanish	Adidas				4				4
Chennai	Human Resource	Nike	Sydney	Dutch	Allen Solley		2						2
Trivandrum	Advertising	Allen Solley	Frankfurt	Japanese	Armani		1						1
New Delhi	Quality Control	Adidas	New York	American	Gucci		1						1
Mumbai	Advertising	Hilfiger	Seoul	Korean	Hilfiger	1		2			1		4
Bengaluru	Human Resource	Woodland	Paris	Spanish	Nike							4	4
Chennai	Human Resource	Nike	Sydney	Dutch	Woodland					4			4
Trivandrum	Advertising	Armani	Frankfurt	Russian	Grand Tot	1	4	2	4	4	1	4	20
New Delhi	Marketing	Adidas	New York	American									
Mumbai	Production	Hilfiger	Copenhagen	English									
Bengaluru	Human Resource	Woodland	Paris	Spanish									
Chennai	Human Resource	Nike	Sydney	Russian									
Trivandrum	Advertising	Gucci	Frankfurt	Japanese									
New Delhi	Quality Control	Adidas	New York	American									
Mumbai	Advertising	Hilfiger	London	Korean									
Bengaluru	Human Resource	Woodland	Paris	Spanish									
Chennai	Human Resource	Nike	Sydney	Dutch									

The number of client / location / nationality

A	B	C	D	E	F	G	H	I	J	K	L	M	N
Base City	Department	Client	Location	Nationality	Count of (Column)								
					Row Labels	American	Dutch	English	Japanese	Korean	Russian	Spanish	Grand Total
New Delhi	Marketing	Adidas	New York	American	Copenhagen			1					1
Mumbai	Advertising	Shadab	London	English	Frankfurt				3		1		4
Bengaluru	Human Resource	Woodland	Paris	Spanish	London			1		1			2
Chennai	Human Resource	Nike	Sydney	Dutch	New York	4							4
Trivandrum	Advertising	Allen Solley	Frankfurt	Japanese	Paris							4	4
New Delhi	Quality Control	Adidas	New York	American	Seoul					1			1
Mumbai	Advertising	Hilfiger	Seoul	Korean	Sydney			3			1		4
Bengaluru	Human Resource	Woodland	Paris	Spanish	Grand Tot	4	3	2	3	2	2	4	20
Chennai	Human Resource	Nike	Sydney	Dutch									
Trivandrum	Advertising	Armani	Frankfurt	Russian									
New Delhi	Marketing	Adidas	New York	American									
Mumbai	Production	Hilfiger	Copenhagen	English									
Bengaluru	Human Resource	Woodland	Paris	Spanish									
Chennai	Human Resource	Nike	Sydney	Russian									
Trivandrum	Advertising	Gucci	Frankfurt	Japanese									
New Delhi	Quality Control	Adidas	New York	American									
Mumbai	Advertising	Hilfiger	London	Korean									
Bengaluru	Human Resource	Woodland	Paris	Spanish									
Chennai	Human Resource	Nike	Sydney	Dutch									
Trivandrum	Advertising	Allen Solley	Frankfurt	Japanese									

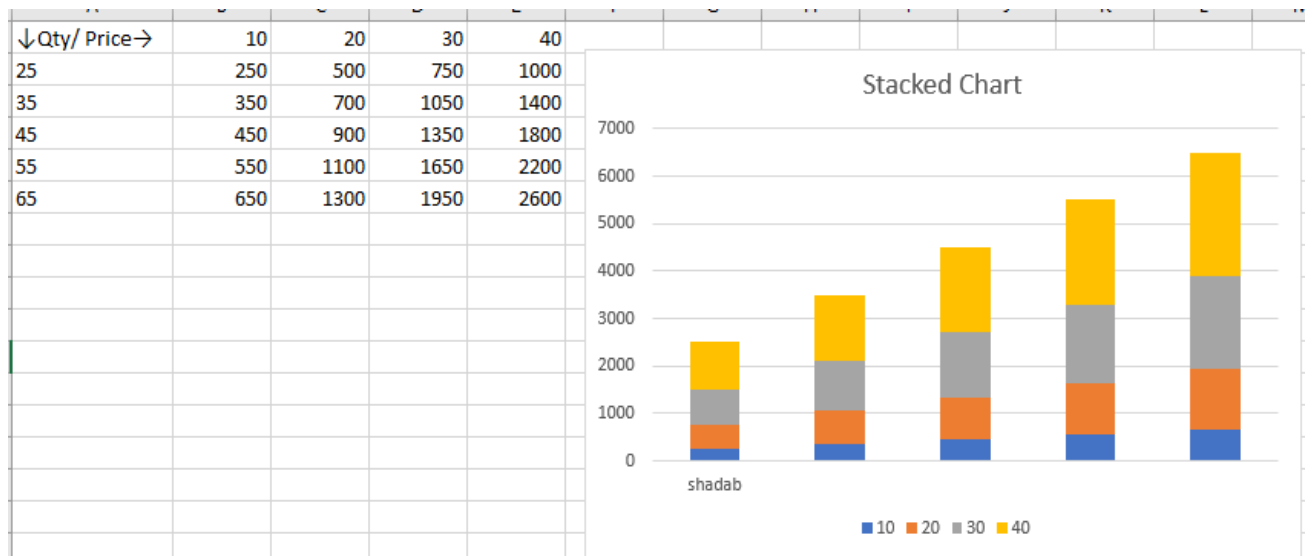
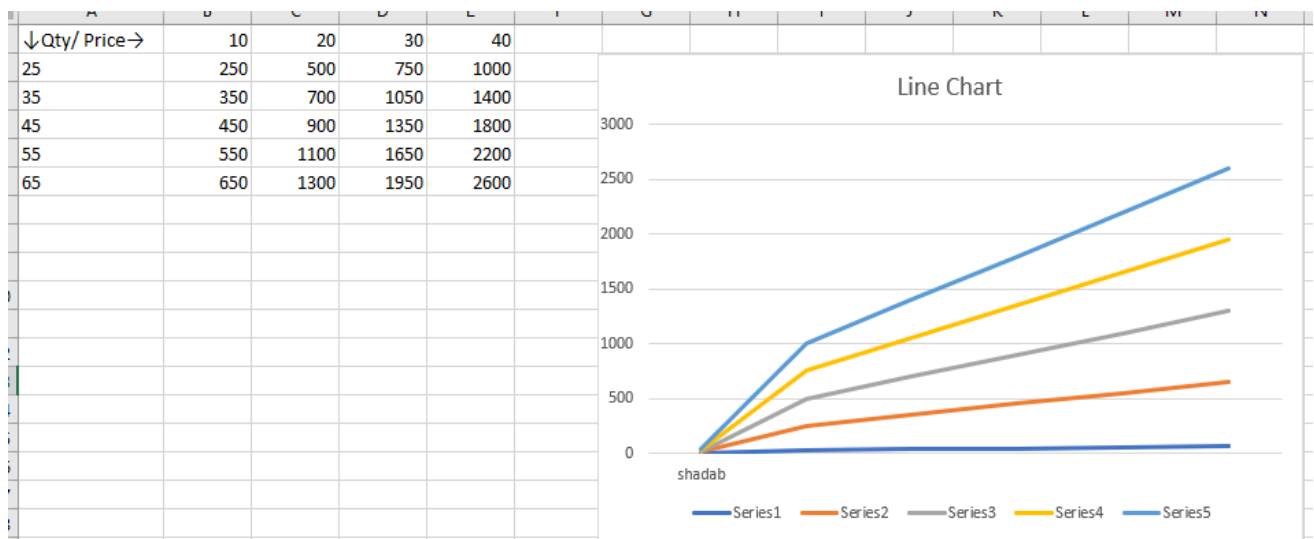
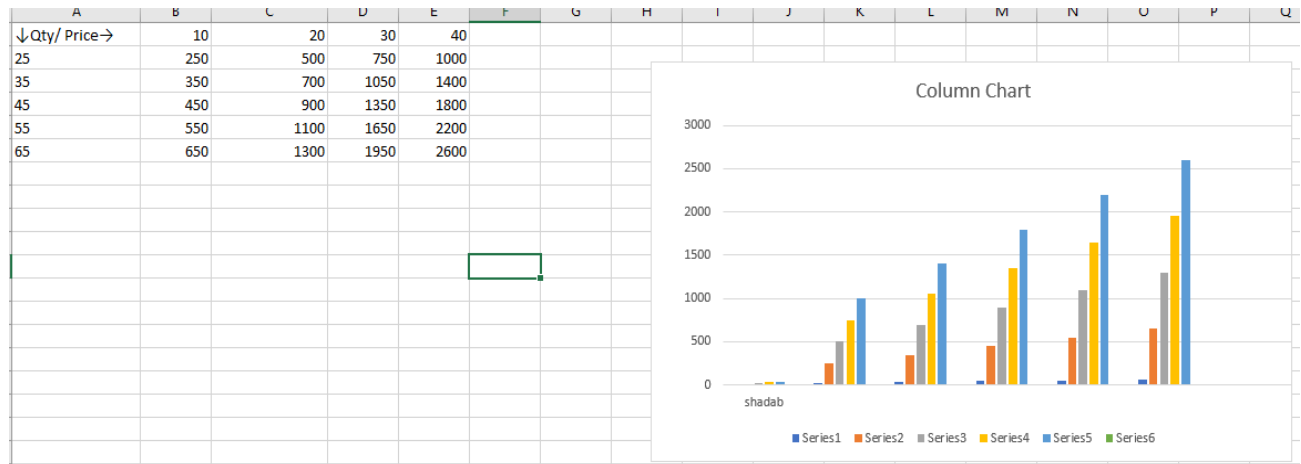
4. A finance company wants to publish the following table

↓

Qty/ Price→	10	20	30	40
25	250	500	750	1000
35	350	700	1050	1400
45	450	900	1350	1800
55	550	1100	1650	2200
65	650	1300	1950	2600

Using Data table, prepare the above tabular distribution

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5. Using the Goal seek function of Excel, prepare the following table for calculating the amount based on the simple interest formula.

Principle Amount	1000
Rate	0.02
Time	2
Amount	1040

Simulate the amount by differing values of

1. Principle amount
2. Rate
3. Time

shadab		
priniple amount	1000	1000
rate	0.02	0.02
time	2	450
amount	1040	10000