



Name: Khizar Ali

Roll No: 22P-9269

Subject: ICT Lab

Submitted to: Muhammad Ahsan

Task 1:

- Find Total

H2												
	A	B	C	D	E	F	G	H	I	J	K	L
	Roll No	Student Name	Urdu	English	Math	Physics	Chemistry	Total	Average	Grade		
1	1	Ram	20	10	14	18	15	77	15.4	A		
2	2	Ashoq	21	12	14	12	18	77	15.4	A		
3	3	Manoj	33	15	7	14	17	86	17.2	A		
4	4	Rajesh	15	14	8	16	20	73	14.6	B		
5	5	Ranjana	14	17	10	13	18	72	14.4	B		
6	6	Pooja	16	8	20	17	15	76	15.2	A		
7	7	Mahesh	18	19	3	10	14	64	12.8	B		
8	8	Ashutosh	19	20	7	14	18	78	15.6	A		
9	9	Anil	22	13	8	12	19	74	14.8	B		
10	10	Prem	26	12	10	11	27	86	17.2	A		

- Find average

I2												
	A	B	C	D	E	F	G	H	I	J		
1	Roll No	Student Name	Urdu	English	Math	Physics	Chemistry	Total	Average	Grade		
2	1	Ram	20	10	14	18	15	77	15.4	A		
3	2	Ashoq	21	12	14	12	18	77	15.4	A		
4	3	Manoj	33	15	7	14	17	86	17.2	A		
5	4	Rajesh	15	14	8	16	20	73	14.6	B		
6	5	Ranjana	14	17	10	13	18	72	14.4	B		
7	6	Pooja	16	8	20	17	15	76	15.2	A		
8	7	Mahesh	18	19	3	10	14	64	12.8	B		
9	8	Ashutosh	19	20	7	14	18	78	15.6	A		
10	9	Anil	22	13	8	12	19	74	14.8	B		
11	10	Prem	26	12	10	11	27	86	17.2	A		

- Find grades

J2										
	A	B	C	D	E	F	G	H	I	J
1	Roll No	Student Name	Urdu	English	Math	Physics	Chemistry	Total	Average	Grade
2	1	Ram	20	10	14	18	15	77	15.4	A
3	2	Ashoq	21	12	14	12	18	77	15.4	A
4	3	Manoj	33	15	7	14	17	86	17.2	A
5	4	Rajesh	15	14	8	16	20	73	14.6	B
6	5	Ranjana	14	17	10	13	18	72	14.4	B
7	6	Pooja	16	8	20	17	15	76	15.2	A
8	7	Mahesh	18	19	3	10	14	64	12.8	B
9	8	Ashutosh	19	20	7	14	18	78	15.6	A
10	9	Anil	22	13	8	12	19	74	14.8	B
11	10	Prem	26	12	10	11	27	86	17.2	A

- Number of Students got A & B

D13						
	A	B	C	D	E	F
4	Rajesh	15	14	8	16	2
5	Ranjana	14	17	10	13	1
6	Pooja	16	8	20	17	1
7	Mahesh	18	19	3	10	1
8	Ashutosh	19	20	7	14	1
9	Anil	22	13	8	12	1
10	Prem	26	12	10	11	2
11						
12						
13		Number of student got A		6		

D14						
	A	B	C	D	E	F
4	Rajesh	15	14	8	16	2
5	Ranjana	14	17	10	13	1
6	Pooja	16	8	20	17	1
7	Mahesh	18	19	3	10	1
8	Ashutosh	19	20	7	14	1
9	Anil	22	13	8	12	1
10	Prem	26	12	10	11	2
11						
12						
13		Number of student got A		6		
14		Number of student got B		4		

- Sum and average of ashok and manoj

A	B	C	D	E	F	
4	Rajesh	15	14	8	16	20
5	Ranjana	14	17	10	13	18
6	Pooja	16	8	20	17	15
7	Mahesh	18	19	3	10	14
8	Ashutosh	19	20	7	14	18
9	Anil	22	13	8	12	19
10	Prem	26	12	10	11	27
	Number of student got A		6			
	Number of student got B		4			
	How many students		10			
	marks less than 15		7			
	marks geater than 20		4			
	Sum of ashoq		77			
	Sum of manoj		86			
	Sum of ashok & manoj		163			
	Average of ashok & manoj		81.5			

	A	B	C	D	E	F	G
5	4	Rajesh	15	14	8	16	20
6	5	Ranjana	14	17	10	13	18
7	6	Pooja	16	8	20	17	15
8	7	Mahesh	18	19	3	10	14
9	8	Ashutosh	19	20	7	14	18
10	9	Anil	22	13	8	12	19
11	10	Prem	26	12	10	11	27
12							
13		Number of student got A		6			
14		Number of student got B		4			
15		How many students		10			
16		marks less than 15		7			
17		marks geater than 20		4			
18		Sum of ashoq		77			
19		Sum of manoj		86			
20		Sum of ashok & manoj		163			
21		Average of ashok & manoj		81.5			
22							

	B	C	D	E	F
Rajesh	15	14	8	16	
Ranjana	14	17	10	13	
Pooja	16	8	20	17	
Mahesh	18	19	3	10	
Ashutosh	19	20	7	14	
Anil	22	13	8	12	
Prem	26	12	10	11	
Number of student got A			6		
Number of student got B			4		
How many students			10		
marks less than 15			7		
marks geater than 20			4		
Sum of ashoq			77		
Sum of manoj			86		
Sum of ashok & manoj			163		
Average of ashok & manoj			81.5		

[illegible]

TASK 2:

- Finding amount

=PRODUCT(F3:G3)						
B	C	D	E	F	G	H
		Sr.No	Item	Quantity	Rate	Amount
		1	AC	20	40000	800000
		2	Fridge	30	20000	600000
		3	Cooler	15	10000	150000
		4	Washing machine	14	15000	210000
		5	TV	18	20000	360000
		6	Fan	17	2000	34000
		7	Computer	10	25000	250000
		8	Keyboard	5	250	1250
		9	Mouse	25	100	2500
		10	Printer	30	12000	360000

- Finding Grades

=IF(H3>500000,"Expensive","Lets Buy It")							
C	D	E	F	G	H	I	J
	Sr.No	Item	Quantity	Rate	Amount	Grade	
	1	AC	20	40000	800000	Expensive	
	2	Fridge	30	20000	600000	Expensive	
	3	Cooler	15	10000	150000	Lets Buy It	
	4	Washing machine	14	15000	210000	Lets Buy It	
	5	TV	18	20000	360000	Lets Buy It	
	6	Fan	17	2000	34000	Lets Buy It	
	7	Computer	10	25000	250000	Lets Buy It	
	8	Keyboard	5	250	1250	Lets Buy It	
	9	Mouse	25	100	2500	Lets Buy It	
	10	Printer	30	12000	360000	Lets Buy It	

- Finding Total Quantity, item greater than 20 , item less than 20

	A	B	C	D	E	F	G	H	I	J	K	L	M
				Sr.No	Item	Quantity	Rate	Amount	Grade				
				1	AC	20	40000	800000	Expensive				
				2	Fridge	30	20000	600000	Expensive				
				3	Cooler	15	10000	150000	Lets Buy It				
				4	Washing machine	14	15000	210000	Lets Buy It				
				5	TV	18	20000	360000	Lets Buy It				
				6	Fan	17	2000	34000	Lets Buy It				
				7	Computer	10	25000	250000	Lets Buy It				
				8	Keyboard	5	250	1250	Lets Buy It				
				9	Mouse	25	100	2500	Lets Buy It				
				10	Printer	30	12000	360000	Lets Buy It				
					Total item	10							

F17									
=COUNTIF(F3:F12,">20")									
	A	B	C	D	E	F	G	H	I
1									
2				Sr.No	Item	Quantity	Rate	Amount	Grade
3				1	AC	20	40000	800000	Expensive
4				2	Fridge	30	20000	600000	Expensive
5				3	Cooler	15	10000	150000	Lets Buy It
6				4	Washing machine	14	15000	210000	Lets Buy It
7				5	TV	18	20000	360000	Lets Buy It
8				6	Fan	17	2000	34000	Lets Buy It
9				7	Computer	10	25000	250000	Lets Buy It
10				8	Keyboard	5	250	1250	Lets Buy It
11				9	Mouse	25	100	2500	Lets Buy It
12				10	Printer	30	12000	360000	Lets Buy It
13									
14									
15									
16					Total item	10			
17					Item Greater than 20	3			
18					Item less than 20	6			
19					Computer Quantity	10			
20					Computer Rate	25000			
21					Amount	250000			

C	D	E	F	G	H	I	J
Sr.No	Item	Quantity	Rate	Amount	Grade		
1	AC	20	40000	800000	Expensive		
2	Fridge	30	20000	600000	Expensive		
3	Cooler	15	10000	150000	Lets Buy It		
4	Washing machine	14	15000	210000	Lets Buy It		
5	TV	18	20000	360000	Lets Buy It		
6	Fan	17	2000	34000	Lets Buy It		
7	Computer	10	25000	250000	Lets Buy It		
8	Keyboard	5	250	1250	Lets Buy It		
9	Mouse	25	100	2500	Lets Buy It		
10	Printer	30	12000	360000	Lets Buy It		
Total item		10					
Item Greater than 20		3					
Item less than 20		6					

TASK 3:

- Sum ,Average & Grade

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=SUM(C2:E2)

A	B	C	D	E	F	G	H
Sr.No	Subject	1st	2nd	3rd	Total	Avg	Grade
1	Urdu	20	15	20	55	18.33333	B
2	English	30	12	15	57	19	B
3	Math	15	14	14	43	14.33333	C
4	physics	12	17	17	46	15.33333	B
5	chemistry	14	18	18	50	16.66667	B
6	history	16	25	20	61	20.33333	A
7	geo	18	21	22	61	20.33333	A
8	Bio	17	23	13	53	17.66667	B
9	Botany	20	25	25	70	23.33333	A

G2

=AVERAGE(C2:E2)

	A	B	C	D	E	F	G	H
	Sr.No	Subject	1st	2nd	3rd	Total	Avg	Grade
2	1	Urdu	20	15	20	55	18.33333	B
3	2	English	30	12	15	57	19	B
4	3	Math	15	14	14	43	14.33333	C
5	4	physics	12	17	17	46	15.33333	B
6	5	chemistry	14	18	18	50	16.66667	B
7	6	history	16	25	20	61	20.33333	A
8	7	geo	18	21	22	61	20.33333	A
9	8	Bio	17	23	13	53	17.66667	B
0	9	Botany	20	25	25	70	23.33333	A

H2									=IF(G2>20,"A",IF(G2>15,"B","C"))
	A	B	C	D	E	F	G	H	
1	Sr.No	Subject	1st	2nd	3rd	Total	Avg	Grade	
2	1	Urdu	20	15	20	55	18.33333	B	
3	2	English	30	12	15	57	19	B	
4	3	Math	15	14	14	43	14.33333	C	
5	4	physics	12	17	17	46	15.33333	B	
6	5	chemistry	14	18	18	50	16.66667	B	
7	6	history	16	25	20	61	20.33333	A	
8	7	geo	18	21	22	61	20.33333	A	
9	8	Bio	17	23	13	53	17.66667	B	
10	9	Botany	20	25	25	70	23.33333	A	

- Total Subject , Greater than 20 in 1st , English , urdu , math , Grades,marks

E13

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=COUNTA(B2:B10)

	A	B	C	D	E	F
7		geo	18	21	22	61
8		Bio	17	23	13	53
9		Botany	20	25	25	70
1						
2						
3		Total Subject			9	

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=COUNTIF(C2:C10,">20")

A	B	C	D	E	F
7	geo	18	21	22	61
8	Bio	17	23	13	53
9	Botany	20	25	25	70
Total Subject		9			
Marks greater than 20 in 1st		1			

Formula: `=VLOOKUP(A3,A1:H10,6,FALSE)`

	B	C	D	E
Total Subject				9
Marks greater than 20 in 1st				1
English marks				57

Formula: `=VLOOKUP(A3,A1:H10,8,FALSE)`

	B	C	D	E
English marks				57
English Grade				B

Formula: `=VLOOKUP(A2,A2:H12,6,FALSE)`

	B	C	D	E
Urdu marks				55

Formula: `=VLOOKUP(A2,A2:H13,8,FALSE)`

	B	C	D	E
Urdu marks				55
Urdu Grade				B

Formula: `=VLOOKUP(A4,A2:H10,6,FALSE)`

	A	B	C	D	E	F
		Math marks			43	
		Math Grade			C	

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=VLOOKUP(A4,A2:H10,8,FALSE)

	B	C	D	E	F	G
	Math marks			43		
	Math Grade			C		

- English,math physics total/average

Formula bar: `=VLOOKUP(A3,A1:H10,6,FALSE)`

B	C	D	E	F
Math Grade			C	
English total			57	

Formula bar: `=VLOOKUP(A4,A2:H11,6,FALSE)`

B	C	D	E	F	G
English total			57		
Math total			43		

Formula bar: `=VLOOKUP(A5,A2:H11,6,FALSE)`

B	C	D	E
English total			57
Math total			43
Physics total			46

Formula bar: `=SUM(E22:E24)`

B	C	D	E	F
English total			57	
Math total			43	
Physics total			46	
Total			146	

Formula bar: `=AVERAGE(E22:E24)`

B	C	D	E	F
English total			57	
Math total			43	
Physics total			46	
Total			146	
Average			48.67	
Total/Average			3	

Formula bar: `=E25/E26`

A	B	C	D	E	F
	Physics total			46	
	Total			146	
	Average			48.67	
	Total/Average			3	

Task 4:

- Find 2.5% DA , 3.5% HRA ,PF1.5%

Employee Salary Sheet										
	A	B	C	D	E	F	G	H	I	J
1	Sr.NO	Name	Department	Post	Basic	DA 2.5%	HRA 3.5%	PF 1.5%	Total	Grade
2	1	Ram	Computer	Manager	5000	125	175	75	5375	C
3	2	Shyam	Computer	Supervisor	8000	200	280	120	8600	C
4	3	Manoj	Computer	Pion	3000	75	105	45	3225	C
5	4	Pooja	Electrical	Guard	6000	150	210	90	6450	C
6	5	Rahul	Electrical	Casher	8000	200	280	120	8600	C
7	6	Rakesh	Electrical	Accountant	9000	225	315	135	9675	C
8	7	Ashish	Finance	Manager	10000	250	350	150	10750	B
9	8	Manish	Finance	Guard	5000	125	175	75	5375	C

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G2

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= (3.5*E2)/100

	A	B	C	D	E	F	G	H	I	J
1	Sr.NO	Name	Department	Post	Basic	DA 2.5%	HRA 3.5%	PF 1.5%	Total	Grade
2	1	Ram	Computer	Manager	5000	125	175	75	5375	C
3	2	Shyam	Computer	Supervisor	8000	200	280	120	8600	C
4	3	Manoj	Computer	Pion	3000	75	105	45	3225	C
5	4	Pooja	Electrical	Guard	6000	150	210	90	6450	C
6	5	Rahul	Electrical	Casher	8000	200	280	120	8600	C
7	6	Rakesh	Electrical	Accountant	9000	225	315	135	9675	C
8	7	Ashish	Finance	Manager	10000	250	350	150	10750	B
9	8	Manish	Finance	Guard	5000	125	175	75	5375	C

<div> <div>H2</div> <div> <div></div> <div></div> <div></div> </div> <div> <div>✖</div> <div>✓</div> <div><i>f_x</i></div> </div> <div>=(1.5*E2)/100</div> </div>										
	A	B	C	D	E	F	G	H	I	J
1	Sr.NO	Name	Department	Post	Basic	DA 2.5%	HRA 3.5%	PF 1.5%	Total	Grade
2	1	Ram	Computer	Manager	5000	125	175	75	5375	C
3	2	Shyam	Computer	Supervisor	8000	200	280	120	8600	C
4	3	Manoj	Computer	Pion	3000	75	105	45	3225	C
5	4	Pooja	Electrical	Guard	6000	150	210	90	6450	C
6	5	Rahul	Electrical	Casher	8000	200	280	120	8600	C
7	6	Rakesh	Electrical	Accountant	9000	225	315	135	9675	C
8	7	Ashish	Finance	Manager	10000	250	350	150	10750	B
9	8	Manish	Finance	Guard	5000	125	175	75	5375	C

- Finding Total , Grade

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=SUM(E2:H2)

A	B	C	D	E	F	G	H	I	J
Sr.NO	Name	Department	Post	Basic	DA 2.5%	HRA 3.5%	PF 1.5%	Total	Grade
1	Ram	Computer	Manager	5000	125	175	75	5375	C
2	Shyam	Computer	Supervisor	8000	200	280	120	8600	C
3	Manoj	Computer	Pion	3000	75	105	45	3225	C
4	Pooja	Electrical	Guard	6000	150	210	90	6450	C
5	Rahul	Electrical	Casher	8000	200	280	120	8600	C
6	Rakesh	Electrical	Accountant	9000	225	315	135	9675	C
7	Ashish	Finance	Manager	10000	250	350	150	10750	B
8	Manish	Finance	Guard	5000	125	175	75	5375	C

- Business salaries in computer department

<div> <div>✕ ✓ <i>fx</i></div> <div>=SUMIF(C2:C9,"Computer",E2:E9)</div> </div>					
B	C	D	E	F	
How many basics salaries in computer department					16000

Task 5:

- Sales & Result

<div> <div>I2 ✕ ✓ <i>fx</i></div> <div>=SUM(B2:G2)</div> </div>										
Salesman	Jan	Feb	Mar	Apr	May	Jun	Sales	Target	Result	
Ashok	800	500	2400	1900	1800	1800	9200	10000	Not Achieved	
Rahul	3000	800	1200	3000	1500	3500	13000	18000	Not Achieved	
Pooja	1000	900	1800	5000	1400	1200	11300	10000	Achieved	
Manoj	500	1000	2300	8000	1700	1400	14900	12000	Achieved	
Shashi	1600	1200	2000	800	1700	800	8100	10000	Not Achieved	
Rakesh	5000	1200	500	1200	1200	2800	11900	12000	Not Achieved	
Ajeet	1200	1400	1500	700	2500	7000	14300	12000	Achieved	
Ramesh	2000	1500	300	1400	1000	1400	7600	10000	Not Achieved	
Alok	1500	1800	1800	1800	300	1500	8700	10000	Not Achieved	
Amrit	1800	2500	1700	1500	2800	1800	12100	12000	Achieved	
Surendra	200	3000	1900	1200	1500	3000	10800	10000	Achieved	

<div> <div>I2 ✕ ✓ <i>fx</i></div> <div>=IF(H2>=I2,"Achieved","Not Achieved")</div> </div>										
Salesman	Jan	Feb	Mar	Apr	May	Jun	Sales	Target	Result	
Ashok	800	500	2400	1900	1800	1800	9200	10000	Not Achieved	
Rahul	3000	800	1200	3000	1500	3500	13000	18000	Not Achieved	
Pooja	1000	900	1800	5000	1400	1200	11300	10000	Achieved	
Manoj	500	1000	2300	8000	1700	1400	14900	12000	Achieved	
Shashi	1600	1200	2000	800	1700	800	8100	10000	Not Achieved	
Rakesh	5000	1200	500	1200	1200	2800	11900	12000	Not Achieved	
Ajeet	1200	1400	1500	700	2500	7000	14300	12000	Achieved	
Ramesh	2000	1500	300	1400	1000	1400	7600	10000	Not Achieved	
Alok	1500	1800	1800	1800	300	1500	8700	10000	Not Achieved	
Amrit	1800	2500	1700	1500	2800	1800	12100	12000	Achieved	
Surendra	200	3000	1900	1200	1500	3000	10800	10000	Achieved	

- Total sales man , ajeet , Rahul , Pooja , targets & results

=VLOOKUP(A7,A1:J12,10,FALSE)			
A	B	C	D
Ashok Target		12000	
Ashok Result		Not Achieved	
Ajeet Result	Achieved		

=VLOOKUP(A8,A1:J12,9,)			
A	B	C	D
15	Ajeet Target	12000	
16	Ajeet Result	Achieved	
17			

=VLOOKUP(A8,A1:J12,10,FALSE)			
A	B	C	D
16	Ajeet Result	Achieved	
17			

=VLOOKUP(A4,A1:J12,9,FALSE)			
A	B	C	D
	Rahul Target	10000	

=VLOOKUP(A5,A1:J12,9,FALSE)			
A	B	C	D
20	Pooja Target	12000	

=VLOOKUP(A4,A1:J11,10,FALSE)			
A	B	C	D
19	Rahul Result	Achieved	

=VLOOKUP(A5,A1:J12,10,FALSE)			
A	B	C	D
	Pooja Target	12000	
	Pooja Result	Achieved	
	Ashok Target	12000	

=VLOOKUP(A7,A1:J11,9,FALSE)			
A	B	C	D
21	Pooja Result	Achieved	
22	Ashok Target	12000	

- Sales man achieved target & jan, feb sales

E25						
	A	B	C	D	E	F
24						
25	How many sales man achieved target				5	

7						
	A	B	C	D	E	F
3	Ashok Result		Not Achieved			
4						
5	How many sales man achieved target				5	
6						
7	Which sales man jan sales are			2000	Shashi	

	A	B	C	D	E	F
	Ashok Result		Not Achieved			
	How many sales man achieved target				5	
	Which sales man jan sales are			2000	Shashi	
	Which sales man feb sales are			2500	Amrit	

Additional Task:

Sr.No	Quantity	Formula	Fruits	Lunch	Maximum
1	4	Ok	Apple	It's Ok to have Apple in lunch .	9
2	6	Not Ok	Orange	It's Not Ok to have Orange in lunch .	
3	1	Ok	Watermelon	It's Ok to have Watermelon in lunch .	
4	2	Ok	Mango	It's Ok to have Mango in lunch .	
5	8	Not Ok	Kivi	It's Not Ok to have Kivi in lunch .	
6	9	Not Ok	Banana	It's Not Ok to have Banana in lunch .	
7	6	Not Ok	Apricot	It's Not Ok to have Apricot in lunch .	
8	2	Ok	Olive	It's Ok to have Olive in lunch .	
9	2	Ok	Grape	It's Ok to have Grape in lunch .	
10	5	Not Ok	Watermelon	It's Not Ok to have Watermelon in lunch .	
11	4	Ok	Kivi	It's Ok to have Kivi in lunch .	
12	3	Ok	Mango	It's Ok to have Mango in lunch .	

Complaints Task

- Used conditional formatting on Grades

	A	B	C	D
	Sr.No	Cities	Customer complaints	Grades
1	1	Karachi	10	B
2	2	Lahore	24	C
3	3	Silakot	54	F
4	4	Bhawalpur	6	A
5	5	Lodhran	14	B
6	6	Multan	218	F
7	7	Ali pur	21	C
8	8	D.K	21	C
9	9	Peshware	2	A
10	10	isalamabd	21	C
11	11	rawalpinid	96	F
12	12	kharor	113	F
13	13	chanu	125	F
14	14	Sarghoda	36	D
15	15	Quetta	14	B
16	16	Mardan	185	F
17	17	Haripur	8	A
18	18	abottabad	2	A
19	19	sakkahr	14	B