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A). Conditional Formatting:

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Demonstrate Conditional Formatting. IF(), COUNTIFO, SUMIF(), AVERAGE(), CONCATENATE() We have Considered "Subject wine workload" Sample dataset. This dataset is having 38 Rocus and 7 Columns. They are, Och Name > Full workload > Partial Workload > Formatting: Conditional Formatting: Conditional Formatting: Conditional Formatting is used to charge the appearance of cells in a range based on your Specified Conditions: An the Considered dataset, Conditional formatting is applied on Full workload (Col D) and partial workload (Col E) Columns. Step 1: Select Col D' and Col E' data Columns. Step 2: Go to home Tab > Style Group > Conditional formatting options, Click on the rule you wish to apply highlight the Cell > Greater than Condition is "Greater than" > 5.				Page No. O	2
O! Demonstrate Conditional Formatting, I+(), COUNTITO, SUMIF(), AVERAGE(), CONCATENATE() SUMIF(), AVERAGE(), CONCATENATE() We have Considered "Subject wine workload" we have Considered "Subject wine workload" Sample dataset. This dataset is having 38 Rows and 7 Columns. They are, Ocoll ID Ocoll Name -> Full workload -> Partial workload -> Partial workload -> Morkload Type -> Concatenate coll ID and Coll Name A) Conditional Formatting: Conditional formatting is used to charge the appearance of cells in a range based on your specified conditions. Specified Conditions. -> In the Considered dataset, Conditional formatting is applied on Full workload (Col D) and partial workload (Col E) Columns. Step 1: Select Col 'D' and Col'E' data Columns. Step 2: Go to home Tab -> Style Group -> Conditional formatting options, Click ?t. Step 3: From the decopdown, click on the rule	Expt.	No	1 100 320		
Sample dalaset. They are, and 7 Columns. They are, > Coll ID > Coll Name > Full Workload > Partial Workload > Total Workload > Workload Type > Concatenate Coll ID and Coll Name A) Conditional Formatting: Conditional formatting is used to change the appearance of Cells in a Hange based on your Specified Conditions. > In the Considered dataset, Conditional formatting is applied on Full workload (Col D) and partial workload (Col E) Columns. Step 1: Select Col 'D' and Col'E' data Columns. Step 2: Go to home Tab > Style Group > Conditional formatting options, Click it. Step 3: From the dropdown, Click on the rule	01/2	Demonstrate Conditions SUMIF(), AVERAGE()	Tax is the state of the state o		
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appearance of cells in a range based on your Specified Conditions. In the Considered dataset, Conditional formatting is applied on Full workload (Col D) and partial workload (Col E) Columns. Step 1: Select Col 'D' and Col'E' data Columns. Step 2: Go to home Tab -> Style Group -> Conditional formatting options, Click it. Step 3: From the dropdown, click on the rule		-> Workland Type	ID and Coll r	Vame	
Step 4: Changes are reflected on Col'D'and Col'E'.		appearance of cells Specified Condition In the Considered applied on Full workload (Col E) Step 1: Select G Step 2: Go to I formatting opt Step 3: From the you wish to a than Condition Step 4: Changes	in a grange ns. dataset, condi workload (col columns. of 'D' and co nome Tab -> St froms, click it coropdown, co pply highlight is "Greater the one see flected o	based of tional for D) and l'E' dat gree Group the Cell an">5.	in your Desmatting is I partial To Conditional The rule Screater

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inction in Excel Counts of their a range based ia. F (stange, (riteria) define 1 or more cells Count. The Condotton that tells function, which cells to Teacher's Signature	Example := If (E3:E40, "Only Full", "Full + Resteal") Expr. No. 01. Page No. 03. Page No. 04. Page No. 04. Page No. 05. Page No. 05. Page No. 05. Page No. 06. Pa
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E) AVERAGE O FUNCTION is a premade The AVERAGE of function is a premade function in Excel, which colaristes the average function in Excel, which colaristes the average function in Excel, which colaristes the average At adds the xonge and divides it by the number of observations. Syntax:-=AVERAGE (number 1. [number 2],) Example:-=AVERAGE (D3, E3), =AVERAGE (D6, E6) Example:-=AVERAGE (D3, E3), =AVERAGE (D7, E7) Teacher's signature Teacher's signature	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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Page No. _ 05. Expt. No. 01 CONCATENATE () function:

The concatenate is just another way

Saying "to combine" or "to gon to gether". Syntax :- = (oncatenate (text 1, [text 2], ... where, • text 1 = the first item to join (text, Value, number, Cell • text 2 = Combine with text 1 Example: = (ONCATENATE (A3, "1", G3) = (ONCATENATE (A4, "1", G4) = CONCATENATE (A40, "1", G40) Horyzon Teacher's Signature

10) · C	I
2	Subject	LEFT()
3	Python	Py
4	Chemistry	Chem

B) MID() Function:

A	C	K
2	Subject	MID()
4	chemistry	hemis
7	Python	thon

Expt. No. 02. Page No. 06 02 Demonstrate LEFT, MID, RIGHT, LEN. SUBSTITUTE, SEARCH, ISNUMBER A) LEFT() Function: The LEFT' function is used to extract a specified number of characters from the beginning (left side) of a text string. = LEFT (text, num-chaus) where . . text: This is the text string from which you want to extract characters. · num-chars: This is the number of characters you want to extract from the left side of the text. Example: -= LEFT((3,2) = LEFT((4,4) BI MID () Function: The MIDO function is used to extract a Specific number of characters from a text string starting at a Specified position. Syntax: - = MIDCtext, Stort-num, num-chary) where, • text: This is the text string from which you want to extract characters · Start_num: This is the starting position in the test string from which you want to begin extraction. · num-chass: This is the number of Example: -= MID(C4, 2, 5), = MID(C7, 3, 5) Horizon Teacher's Signature

A	C	J
2	Subject	RIGHT()
3	Python	on
4	Chemistry	stry

D) LEN() Function:

為	C	L
2	Subject	LEN()
3	Python	6
4	Chemistry	9

Expt. No. ______ 0.2 . Page No. _ 07 RIGHT() Function: The 'RIGHTO' function in Excel is used to extract a specified number of characters from · num-chaus = is the number of characters you want to retrieve from the right end of the text Example: = RIGHT(C3,2), = RIGHT(C4,4) D) LEN() Function: The 'LENCY' Function in Excel is used to count the number of characters in a text Syntax: - = LEN(text) Where ., . text = The text string for which you want to determine the Example: == LEN((3) E) SUBSTITUTE () Function: The 'SUBSTITUTE()' Function is used to replace occurrences of a specified substring Syntax: -= SUBSTITUTE(text, old-text, new-text, [initance_num] HOTYZON Teacher's Signature

IA	1 C	M
2	Subject	SUBSTITUTE ()
6	Computer	Computer applications
3	Python	java

F) SEARCH () Function:

4	C	N
2	Subject	SEARCHC
3	Python	2
4	Chemistry	4
		CO LEWICE

Expt. No. ____ 02. Page No. __08 . where .. , • text = The original text string where you want to replace occurrences.

• old-text = The Substring you want to · new_text = The new substring that will replace old-text · [Fristance - num] = (optional): Specifies which occurrence of old text' to Menjace Example: = SUBSTITUTE ((6, "Sci", "applications")
= SUBSTITUTE ((3, "Python", "java") F) SEARCH () Function: SEARCH() will return the position of a specified character or sub-string within a Supplied text string. Syntax: = SEARCH (find_text, within_text, Estart_num]) where, • find_text = The text you want to find.
• within_text = The text containing the data you want to search. · [Start_num] = (optional): The starting number for the search within the within - text Example: = SEARCH ("m", C4), = SEARCH ("y", C3) G) ISNUMBER () FUNCTION: The ISNUMBER()' function is used to check of a cell Contains a numeric Value. HOTYZOTI Teacher's Signature

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	Example: = ISNUMBER (A3) = ISNUMBER (C5)	Where . , . Value =	At network TRUE of the cell's content in a number and FALSE of of the not Syntax: = ISNUMBER (Value)	Expt. No. 02	
B) MeMC) JONESON:	R (A3) R (15)	Shere, . Value - The Value or cell reference you want to cheek.	the cell's content is a if it is not in not it is a	Page No09	Date

A) TODAY() Function:

= TODAY()

17-12-2023

B) NOW() Function:

= NOWC)

. 17-12-23 19:24

c) YEAR() Function:

= YEAR (Serial_number) = YEAR ("17 - Dec-23")

2023

03, Demonstrate TODAY, NOW, YEAR, MONTH, A) TODAY() Function: B) NOW () Function:
In Excel. the NOW () function is c) YEAR () Function: the current date. This date will automatical the current date the spreadsheet. You open or recalculate. Example: = TODAY() Syntax : = TODAY() Example: = Nowy() Syntax: = NOW() In Excel, the TODAY () function yetung Simply enter this formula in a Cell. neturn the Current date and time Page No. 10

the year from a date The YEARCI' function is used to extract

Syntax: = YEAR (Serial_number) Serial -number: This is the date

from which you want to

Example: - = YEAR ("17-Dec-23") extract the Year

Teacher's Signature

Horkon

E) NETWORKDAYS () Function:

= NETWORKDAYS ("2-oct-23", "31-dec-23")

65

= NETWORK DAYS ("2-oct-23", "31-dec-23", "01-NOV-23": "25-Dec-23")

63

Page No. 11 MONTH () Function: The 'MONTHO' function is used to extract the month from a date Syntax: = MONTH (serial - number) where ., · Serial number: This is the date from which you want to extract Example: = MONTH ("17-Dec-23") NETWORK DAYS () Function: The 'NETWORKDAYS ()' function is used to calculate the number of whole workdays (Monday through Friday) between two dates, excluding specified holidays. Syntax: = NETWORKDAYS (Start - date, end-date, [holidays] where, Start-date: The Start date of the period. end-date: The end-date of the Persod. Can specify a range of cells Containing holiday dates.

Example: = NETWORK DAYS ("2-oct-23", "31-dec-23") = NETWORK DAYS ("2-oct-23", "31-dec-23", "01-NOV-23" 25-Dec-23 LOMONTH () Function: The 'EOMONTH()' function in Excel returns the serial number for the last day of the month that is specified number Horizon Teacher's Signature

F) EDMONTH () Function:

	A	B
1	Start date	EOMONTH()
2	26-Jan-16	42429
3	1-APH-23	45169
4	18-AUg-23	45138
5	10 - NOV-23	45199

A After Converting Cell B Values to Date format:

4	A	B.
1	Start date	EOMONTH()
2	26-Jan-16	29-02-16
3	1 - АРн - 23	31-08-23
4	18- Aug-23	31-07-23
5	10- NOV-23	30-09-2023

before or after a specified date. Syntax: = EDMONTH (Start date, months) where, start date: The instial date. months: The number of months before or after the start date. A positive Value for months yields a future date, is a negative Value yields a Past date. Example: = EOMONTH (A2, 1) = EOMONTH (A3, 4) = EOMONTH (A4, -1) = EOMONTH (A5, -2) STEPS TO CONVERT A VALUES TO DATE FORMAT: 1) Step 1: Once you get your Values, Right click on The particular (ell. 2) Step 2: Click on Format (ell. 3) Step 3: Under the Category (ell., Select as Date.) 4) Step 4: Then, select the type 3 format you want for example, DD-MM-YY Or YY-MM-DD. 5) Step 5: Click on OK. Then you will be getting the Date format.	Expt. No03	Page No
1) Step 1: Once you get your Values, Right click on the particular cell.	Syntax: = EOMONTH (Start where, Start date: months: The before of positive Value future date, 4 a Past date Example: = EOMONTH (A:	The initial date. The initial date. Inumber of months or after the start date. Lie for months yields a negative Value yields a
1 >\ Sten 9 : Click on +08mal (ell.	=) STEPS TO CONVERT A	VALUES TO DATE FORMAT:
# 6000 - 50 - 50 - 50 - 50 - 50 - 50 - 50	1 5 Sten 9 CUIK An +08 moul	(ell
\$ 25-03-35 B		p control b
\$ 5505-50-57 B		7 11-12-11-1
\$ (25-03-2023) \$ A		9 1000 00-11
2		+ (201-20-20)
		2 200 10 10 1
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(A)	VLOOKUP () Func	tion:	E	F
Nam	e Date	Value		VLOOKUP
a	01-01-2022	1	C	3
Ь	26-01-2022	2	30,100,23	CT TO REAL
C	22-02-2022	3	and h	
d	23-02-2022	. 4		
е	11-03-2022	5		
f	14-03-2023	6		1 June 1
9	25-03-2023	7		
h	28-03-2023	8 1		

B) HLOOKUP() Function:

	A	В .	C	E	MAR OF THE R
	Name	Date	Value	3000 20	HLOOKUP
	a	01-01-2022	1	Tale	13 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	b	26-01-2022	2	Date	14-03-2023
-	C	22-02-2022	3		
	d	23-02-2022	4		
	e	11-03-2022	5		
4	f	14-03-2023	6		
9		25-03-2023	7		
h		28-05-2023	8		

Expt. No. Page No. 13 Obs Demonstrate VLOOKUP, HLOOKUP, XLOOKUP, COUNT. COUNTA A) VLOOKUP() Function : Looks for a Value in the leftmost column of table, and then return a Value in the Same row from a Column you specify.

Syntax: = VLOOKUP (lookup-value, table - averay. Col_Index_num, [Hange_lookup]) Example: = VLOOKUP(E44, A43: C51, 3, FALSE) B) HLOOKUP () Function: Looks for a Value in the top you or array of values and returns the Value in the same Column from a row you specify Syntax: = HLOOKUP Clookup- Value, table - annay. Yow-index Chom, [Hange _ lookup]) Example: = HLOOKUP (E45, A43: (51.7, FALSE) HONIZON Teacher's Signature

43	Value	D Value	E	**LOOKUP
44	1	56	18	14-03-2023
45	2	22	COLUMN TO A STATE OF THE PARTY	H han shell
46	3	13	88	11-03-2022
47	4	14	62	
+8	5	66	Janes	
19	6	102		
0	7	36		
1	8	1	1.00	100 010000

	D) (OUN.	<u>T()</u> E) (COUNTA()	a Topley
	A	C	9.	Н
43	Name !	Value	COUNT	COUNTA
44	a	1	8.0.400	9
45	b	2	0	a
46	C	3	O	
47	d	4		
48	e	5		
48_	4	6		
50	9	7		
51	h	8		

Dearches a range or an array for a match and returns the corresponding item from a second range or array, by default, an exact match is used. Syntax: = XLOOKUP(lookup-Value, lookup-array, return array, Cif-not-found], [match-mode], return array, Cif-not-found], [match-mode], [search-mode]) Example: = XLOOKUP(E46, D43: D51, B43: B51, "NOT FOUND", 1, 1) = XLOOKUP(E47, D43: D51, B43: B51, "NOT FOUND", 1, 1) D) (OUNT() Function: Counts the number of (ells in a range that contain numbers	
and netwins the Corresponding item from a Second range or arriay, by default, an exact match is used. Syntax: = XLOOKUP(lookup-Value, lookup-arriay, neturn-arriay, [rf-not-found], [match-mode], (Search-mode]) Example: = XLOOKUP(E46, D43: D51, B43: B51, "NOT FOUND", 1, 1) = XLOOKUP(E47, D43: D51, B43: B51, "NOT FOUND", 1, 1) D) (OUNT() Function: Counts the number of (ells in a range that	
Syntax = XLOUNDY Moter found J. [match_mode], Heturn_averay, [if_ not_found J. [match_mode], [Search_mode]) Example: = XLOOKUP(E46, D43: D51, B43: B51, "NOT FOUND", 1, 1) = XLOOKUP(E47, D43: D51, B43: B51, "NOT FOUND", 1, 1) D) (OUNT() Function: Counts the number of (ells in a range that (a tain numbers	
Syntax = XLOUNDY Moter found J. [match_mode], Heturn_averay, [if_ not_found J. [match_mode], [Search_mode]) Example: = XLOOKUP(E46, D43: D51, B43: B51, "NOT FOUND", 1, 1) = XLOOKUP(E47, D43: D51, B43: B51, "NOT FOUND", 1, 1) D) (OUNT() Function: Counts the number of (ells in a range that (a tain numbers	
Syntax = XLOUND 1 not-found], [match_mode], "Return_averay, [if _ not-found], [match_mode], [Search_mode]) Example: = XLOOKUP(E46, D43: D51, B43: B51, "NOT FOUND", 1, 1) = XLOOKUP(E47, D43: D51, B43: B51, "NOT FOUND", 1, 1) D) (OUNT() Function: Counts the number of (ells in a range that (a tain numbers	
Syntax = XLOUND 1 not-found], [match_mode], "Return_averay, [if _ not-found], [match_mode], [Search_mode]) Example: = XLOOKUP(E46, D43: D51, B43: B51, "NOT FOUND", 1, 1) = XLOOKUP(E47, D43: D51, B43: B51, "NOT FOUND", 1, 1) D) (OUNT() Function: Counts the number of (ells in a range that (a tain numbers	
Example: = XLOOKUP(E46, D43: D51, B43: B51, "NOT FOUND", 1, 1) = XLOOKUP(E47, D43: D51, B43: B51, "NOT FOUND", 1, 1) D) (OUNT() Function: Counts the number of (ells in a range that	
Example: = XLOOKUP(E46, D43: D51, B43: B51, "NOT FOUND", 1, 1) = XLOOKUP(E47, D43: D51, B43: B51, "NOT FOUND", 1, 1) D) (OUNT() Function: Counts the number of (ells in a range that	
= XLOOKUP (E47, D43: D51, B43: B51, "NOT FOUND", 1, 1) D) (OUNT() Function: Counts the number of (ells in a range that	
= XLOOKUP (E47, D43: D51, B43: B51, "NOT FOUND", 1,1) D) (OUNT() Function: Counts the number of (ells in a range that	
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D) (ount() Function: Counts the number of (ells in a range that	
Counts the number of Cells in a range ina	
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Counts the number of Cells in a range ina	-
La tara minimpi	
	-
Syntax: = Count (Value 1, Evalue 2],)	1
Frample: = (OUNT(C43:C51)	-
= COUNT (A43: A51)	
The state of the s	
The second of th	
E) (OUNTA() Function:	0
Counts the number of cells in a range th	at
Syntax: = Counta (Value 1, Evalue 2],)	
Example:=COUNTA(C43:C51)	
= COUNTA (A43: A51)	
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	175	5.8	Kevin	4	5
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Syntax: = MATCH (Lookup Value, lookup - assay).

Ematch_type])

Example: = MATCH (B8, B2: B8, 0)

Example: = MATCH (B8, B2: B8, 0)

= MATCH (180, D3: D8, 1)

the relative position of that item in the

	of them in a range of cells, and then neturns
	The MATCH() Function Searches for a Specified
	B) MATCH() Function:
	= INDEX (B2: D8, 6, 3)
	num 1)
	Syntax: = INDEX (array, row-num, [alumn_
	table or range.
	the neterence to a value from within a
	40
	A) INDEX() Function:
	COUNTIFS. SUMIFS. AVERAGEIFS
	25 Pemponatrate INDEX. MATCH UNITONIC
1	Expt. No. O5. Page No. 15.
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C) UNIQUE() Function:
The UNIQUE() Function in Excel setwers a list of unique values from a stange or avayor Teacher's Signature

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E)	SUMIFS()
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