

Date 10.1

15/9/25

Days 10

## Dynamic Array Formulas

1<sup>st</sup> Innings Data

Q1 →

using table name

$$\rightarrow = \text{SUM}(\text{Table-2}[\text{total runs}])$$

using cell reference

$$\rightarrow = \text{SUM}(J9:J131)$$

] 2<sup>nd</sup> Innings Data] →

using table name → = SUM(Table-3[total runs])

using cell reference → = SUM(AE9:AE131)

Q2 →

How many Extra Runs were given by DC  
to MT in 2nd Innings?

$$\rightarrow = \text{SUM}(T9:T120)$$

→ Given by MT to DC in 1<sup>st</sup> Innings → = SUM(AE9:AE20)

Q3 →

Wicket lost by MT? →

COUNTIF(L9:L120, 1)

COUNTIFS → preferred to use

if here is  
1 > Then  
Can use  
SPLIT M

Date 10/2

ii) Wickets lost by DC & wicket taken by  
K.H Pandya.

= COUNTIF(AH9:AH120, 1)

K.H Pandya → COUNTIFS(AH9:AH120, 1, AC9:AC120,  
"K.H Pandya")

(i) Get run rate for DC in 1st 5 overs?

Run Rate = Total runs / Total over

Total runs → = SUM(Table.name[Total Runs])

Total over = 5

Run Rate = Total Runs = Total Runs  
Total over

(ii) Get run rate for M.P in 1st 5 overs.

Formula Evaluation

→ Formulas Tab →  $f_x$  Evaluate formula

Run check formula  
Step by step

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⑤  $\Rightarrow$  i) Wicket lost by DC in first 5 overs?

Ans ->

5 overs Data

given

DATA

11/12/23

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## Text function

i)  $= \text{LEFT}(\text{A2}, 3)$  num-chars  
Cell

~~Ex- 123 Aman - 34~~

$\text{LEFT}(\text{A2}, 3) \rightarrow 123$

ii)  $= \text{RIGHT}(\text{cell}, (\text{num-chars}))$   
 $\text{Right}(\text{A2}, 3) \rightarrow 34$

$\rightarrow$  Data Tab  $\rightarrow$  Text to Column

fixed

Width

Delimited



Based

on char

Like (%)  
etc

TRIM  $\rightarrow$  To eliminate unwanted space

Notes MySQL-

it has LTRIM,  
RTRIM & TRIM

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LOWER → Make text lowercase → abc

UPPER → Make text uppercase → ABC

PROPER → proper → A b c

first upper then lower

LEN → gives length of Text

A1  
www.Amazon.com I want Amazon  
↓ ↓ ↓ Extract  
Remove 4 char from start Remove 4 char from start

Step → 3

Left(A1, LEN(A1)-4) → L1

Right(left(A1, LEN(A1)-4), LEN(left(A1, LEN(A1)-4))-4)

Step - 1 + Step 2

(S - 2) → RIGHT(L1, L1-4)

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→ Concat two text from two column

CONCAT (text1, text2, text3)

→ Another way npercent (%)

= (text1 & <sup>66-12</sup> & cell)  
(cell no)

Q If the player is dismissed by bowled; then display output as

66 to bowler name

Q-1 → IF (Mq=66 bowled "", 1, 0) → S1

Q-2 = IF (S1=1, CONCAT("66", bowler name), "NA")

→ Can also write Q-1 & Q-2 combining

Q If the player is dismissed by run-out then display the output as 66 runout (fielder name)

Q-1 → IF (Mq=66 runout "", 1, 0) → S1

Q-2 = IF (S1=1, CONCAT("66", runout, " spiral"), "NA")

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- Q) Write a formula/function that combines all the three outputs of the previous three questions in one i.e. depending on how the player is out the output should be displayed in an appropriate format?

Ans → Catchout → Question 6

Bowled → Question 7

Run Out → Question 8

Overall → use IFS

= IF(M15 = "caught", CONCAT("C ", fielder, " b ", bowler),  
"Name" "Name")

M15 = "bowled", CONCAT("B ", bowler),  
"Name" "Name")

(M15 = "run out", CONCAT("R ", fielder),  
"Name" "Name"))

- Q) → Count the Number of matches played in May - 2008?

⇒ = MONTH (Month column) → M-1

= YEAR (YEAR column) → Y-1

⇒ = COUNTIFS(M-8:MH24, B, Y-8:Y824, Q008)

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Date 16/6

(1) → Count 100 & 50 of Sachin Tendulkar

Bo. → > 40 & < 100 Runs

= COUNTIFS(H11:H473, "66>40", H11:H473, "66<100")

= 82 → But This is wrong

Why getting wrong? ⇒ we contain data like 52\*

\* → because of this count will  
Not take these

⇒ So, to solve this we have to remove \*

(S-1) → = IF(RIGHT(H11, 1) = 66\*, 1, 0)

(S-2) → = IF(\$1=1, LEFT(\$1, LEN(H11)-1), H11)

Two text function

& given string as output

⇒ If we Multiply it by 1, Then → integers

(S-3) → = COUNTIFS(S11:S473, "66>40", S11:S473, "66<100")

50 → = 96

100\*8 = COUNTIF(S11:S473, "66>100")  
→ 44

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## Assignment

Date 109

(1) → Matches played in 2020

↳ Using the below given dataset, find out the total number of matches played in the 2020 season.

$$(3-1) = \text{YEAR}(\text{col(ex1a)})$$

$$(3-2) \rightarrow ? = \text{COUNTIF}(\text{Range}, \text{criteria})$$

$$\text{option (3)} \rightarrow \text{COUNTIF(L9:L120, YEAR(a)=2020)}$$

(2) → SUM IF

	Property Value	option (1) = $\text{SUMIF}(A2:A1, "≥ 160,000")$
1	1,00,000	
2	5,40,000	option (2) = $\text{SUMIF}(A1:A6, "≥ 160,000")$
3	2,00,000	
4	3,00,000	
5	4,00,000	

(3) → Count If

which of the formulas below contain the correct syntax for the number of water-type pokémon from the dataset?

Option (2) → Go to G6 cell and type =

$$\text{COUNTIF}(B2:B21, F6)$$

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Date 10/6

④ Concatenate →

↳ which of the following formula will give space b/w the first name & the last name in the combined Name col?

Option ③ → CONCAT(B2, " ", A2)

## ③ Price of fruits

Q4) For the below dataset, complete the Countif function to get the count of fruits with price greater than 20.

= COUNTIF(range = B1:B5, >2019)

→ When we execute the following formula: =  
 = VLOOKUP("PHYSICS", A1:D10, 5, FALSE) for the  
 below-given dataset it returns #REF! error.

Select the correct Options that point out the  
Correct reason for the error

→ Column index num is greater no of columns in table - array selected

= VLOOKUP("GEOPHYSICS", A1:D10, 5, FALSE)

A to D  
184  
Yakutat  
440 ft 4 Spiral

12/9/23 Additional Problems  
(Tableau)

Date 109

① → refunds option ④ → 829

↳ Royaltyice Tableau Case Study

→ Determine the total number of items refunded in the year 2022.

Rows → Refund transaction or not

Column → sum(quantity)

Filter → YEAR (Date Transacted) → 2022

② → No of freebie

↳ Determining the total no of freebies distributed in the year 2020.

Rows → Refund or not

Column → sum(quantity)

Filter → YEAR (Date Transacted) → 2020

Option ③ → 172

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Date

Q10

option ①

③ → Missing Nationality → 27.02%

↳ Determine what percentage of registered customers had a customer ID but no nationality.

M-1 → COUNTS (IF [Customer Nationality] IS NULL  
AND [Registered or not] = "Registered")  
THEN  
[Customer ID]  
END /  
COUNTS (IF [Registered or not] = "Registered")  
THEN  
[Customer ID]  
END

M-2 → kaam chalu  
Rows → Customer-Nationality

Not recommended  
play wrong

Marks	<input checked="" type="checkbox"/> Label
Customer-Nationality	

Convert to Measure

& Count distinct  
(Select)

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Date 111

(4) Highest No of Signups

→ Determine the month & year when the majority of people signed up for the program

Column → MONTH (signed loyalty)

Rows → CNTD (Cust Id)

Convert to Measure &

Then select Count Distinct

Also add

filter of > 2020 & 2021

Palette Special →

Home Tab



✓ ← click & select paste  
Special

Paste

- All
- Formulas
- Values
- Formulas
- Comments
- Validation

Operation

- None
- Add
- Sub

Skip  
(Paste link)

—  
—

→ Can Only  
paste value,  
formulas/etc

Transpose  
 Cancel

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