

3/9/23 Day-9 Intro to Excel & formula's Date: 29

MS Excel → ① classes

→ 1st class → Overview of Excel

→ 2nd class → Functions

→ 3rd class → Aggregation

→ 4th class → Text, Date, etc.

2nd Class → Lookups

→ VLookup

→ HLookup

→ XLookup

→ Index Match

3rd Class → Pivot & Stats, Array function

4th class → Dashboards & Macros

Agenda →

MS Excel →

MS Suite

MS Word

Powerpoint

MS Excel

mini database

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→ Excel usage across industry wide.

→ Financial Analyst, Project Management

→ Excel give Tabular format data

| | | |
|---|---|---|
| 1 | 2 | 3 |
| 4 | 5 | 6 |

→ Data Analyst, Data Scientist, BI Analyst
Consultant use Excel at daily level task Business Intelligence

Excel UI →

File Home Insert

Ribbon

Col A B C

Row

| | | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |

Cell → for each cell there

is cell reference (Address)

→ Playground

Home → Formatting Review

Insert → Diff thing

Review your Data

Page Layout → Margin, Size, Print, etc Area

View → zoom
zoom out
etc

formula → Diff formula (Date & time etc)

Data → Filter, get data

Help
Support

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Shortcuts →

ctrl + space → select Full column

shift + space → select Full Row

ctrl + A → select all data

→ SQL DT are available in Excel

Twice ctrl + A → select all worksheet

ctrl + Z → undo

ctrl + Y → Redo

Select → Right click

Insert, delete, etc.

sheet 1 sheet 2 14

ctrl + ↓ → goto last Row

ctrl + ↑ → first

ctrl + → → last Column

ctrl + ← → first

Excel → limitation

Max → 1048576 (1M)

Max column → 16K

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ctrl + shift + l → apply filter
 alt + d + f → alt + a + t

How to create filter →

Data Tab → use filters

Formula →

$$\text{Formula bar} \\ \boxed{x \text{ } \checkmark \text{ } fx} = 17 + 23 + 13$$

| | Total Sales | IV | Dif |
|-------|------------------------------|----------------------------|------|
| Diff | $= 17 + 23 + 13 = 53$ | $= \text{sum}(C1, C2, C3)$ | ways |
| Total | $= C1 + C2 + C3 =$ | → cells address | |
| Add | $= \text{sum}(n1, n2, n3) =$ | $= \text{sum}(C2, C4)$ | |
| No's | \sum | Y | |

Write it and Enter Tab → sum function appears

= sum () → then use (↑, ↓, ←, →) Arrow
 then to go No; then shift & select cells,

→

| Col | Sub Col | Sales |
|-----|---------|-------|
| X | 1 | 10 |
| Z | 2 | 20 |
| Y | 3 | 30 |

& Select it, Insert Tab

Table

Now this will become

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→ 8 New Tab → Table design appear

(vi) = Sum (table name [column name])

Table → custom Report

→ if you sum one Row
then all Row generated

Home Tab → Wrap Text

Merge & center

3 Parameters

If Then else →

If logical test; [value if true], [value if false]

salaries

If ($c_2 > 40$, 1, 0) =

$c_2 \rightarrow 0$

c_3 [Copy & Paste → Copy & paste]

Krega formula
Answer Nitragae

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★ $(\text{ctrl} + \text{C}) + (\text{ctrl} + \text{V}) \rightarrow$ Select column &
copy + paste $\rightarrow \text{ctrl} + \text{D}$ for
copy & paste

$\text{ctrl} + \text{R} \rightarrow$

Aggregation by if - Then else

- 1) Sum if \rightarrow one cond $\Rightarrow \text{SUMIF}(\text{range}, \text{criteria}, [\text{sum range}])$
- 2) Sum if's \rightarrow if's \rightarrow multiple conditions
- 3) avg if
- 4) avg if's

① $\rightarrow \text{SUMIF}(\underbrace{\text{A2:A11}}_{\text{Category Column}}, \underbrace{\text{T3}}_{\text{Criteria}}, \underbrace{\text{C2:C11}}_{\text{Sales Column}})$
write "Furniture"

But can be spell mistake

So, instead of Text use any of cell reference
of furniture ??

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what will be the output

Where are you trying
to find

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~~what to find~~

ii) SUMIFS (^{sum-range}, ^{criteria1}, ^{range1}, ^{criteria2})

Coptesia-range 2, criteria 2

Column j gives long charge

Ex-1 SUMIFS (Sales Column, A2:A11, "Furniture", C2:C11)

C₂OC₁₁

$\text{C}_2\text{O}_4 \cdot \text{CaCl}_2 \cdot 6\text{H}_2\text{O} > 20\%$

Column 06 jisse hong
choice

Select

\rightarrow CFS + D \rightarrow Row Reference are changed / changing

fix Row numbers

Select

$\text{R}2^{\circ}\text{C}$

$\rightarrow F_U$

\$C\\$1:\$E\$1

1.0 F⁴ →

9.0 F4 -

3.01 f4

4. $f_4 \rightarrow$

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Dataset

- 1) Sheet 1 → IPL Match Data → 2008 to 2020
all matches
- 2) Sheet 2 → Ball by Ball → each & every Ball & Match resp.
Data
- 3) Sheet 3 → MI v/s DC → Final Match Ball by Ball Data
- 4) Questions

→ Table Design → extra tab became Active when you select Data & Convert it to Table.

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Day 9 Assignment

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Cells

① → A cell in Excel / Google Sheets is an intersection of a column & a row

② → many sheets
(option 1)

→ Workbook would have multiple sheets

③ → Total runs by DC

= sum (Table 1 [Total runs])
 ↓ ↓
 Table name column

Option 1 → 136

① → How many matches played in Bengaluru in all seasons?

= countif (range, criteria)

 ↓
 city column Bengaluru

→ Table! [city]

Option 3 → 80

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Ques

(5) → No of man of match.

= COUNT IF (Table 1 [players-of-Match], "MS Dhoni")
option 1 → 17

(6) → Sum based on condition

→ which function calculate the sum of values in a range based on a true or false condition?

↳ option 3 → SUM IF

Additional Problems →

(2) → No of registered customers

↳ Before that let's understand Data

Assumptions →

i) Total Spend column → -ve value
(Refund)

ii) Quantity → -ve value → returned item

iii) The Total Spend → zero value
Column ↳ freebie to customer by Brand Spiral

Can be Done On

9/9/23 Data Source Tab

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Basic Data cleaning →

- 1) Add data source filter to remove null transactionid's.
- 2) Change the datatype of itemid field from number to string.
- 3) Assign geographic role country / region to customer nationality field.
- 4) Convert itemid to Dimension

Create Calculated fields & some Alias changes →

i) Registered or Not
If [CustomerID] IS NOT NULL THEN If (NOTNULL([CustomerID]) AND
(NOTNULL([signed up loyalty]))

Then "Registered"
Else "Not Registered"
END

ii) Refund transaction or not

If [Total Spend] < 0 Then "Refund"
ELSE IF [Total Spend] = 0 Then "Freebies"
ELSE "Sale"

END

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iii) Item Refunded or not

IF ([Quantity] < 0, "Item refunded",
"Not Refunded")

iv) Current tier → change Alias Of
null → No current tier

v) Customer Nationality → change Alias of
null → No Nationality

1 → No of Registered Customers
→ find the no of customer registered for loyalty
program

option 1 → 64,947

→ Rows → COUNT(DISTINCT(Cust ID)) -
→ Convert to Measure
→ Column → Registered Or Not

2 → Distinct products
→ Branch A has how many distinct product
categories?

→ option 1 → 18

→ Rows → Branch
→ Marks → Text → Product cat → convert to measure
→ & select count

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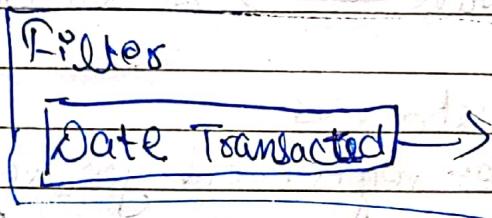
Q3 → Sales & Refund

→ In the year 2020, what was the total amount of sales & refund made?

option 3 → Sales: 17,39,072 & Refund: -770,665

Rows → Refund transaction

Column → sum (Total Spend)



Q4 → Store city and id

→ Find the store city with the highest percentage contribution to overall sales and the store id within that city with highest contribution to overall sales.

Option 4 → store city: Dubai & store id: A201

columns → nothing

Rows → store city & store id

Marks → Text Label → sum (Total Spend)

↳ Quick Table cal → % of Total
↳ grand

Analysis Tab → Totals → Add Column Total

↳ Add all sub totals

* If I choose bar chart (col → Total Spend) → then not able to add (Total's)