

Extra class

9/9/23

Day → 8.2 Miscellaneous Date... (78)

Tab: Advance charts, Dashboard & Tableau Capstone

Wildcard Filters → when click on filters

- General Wildcard (and in Top)
- contains
 - exactly
 - starts with
 - ends with

→ You can think it as → contains → like in SQL

→ Can we apply wildcard on dimension?

⇒ Yes

Q → Diff b/w a highlight table & a heatmap?

Ans → Highlight table can colour and labels.

Today → i) Data operations

ii) Dashboard Elements

↳ Objects & Resolution

iii) Actions & URLs

↳ Action

iv) Interview Related topic

↳ Definition

Spiral

Q1/9/23

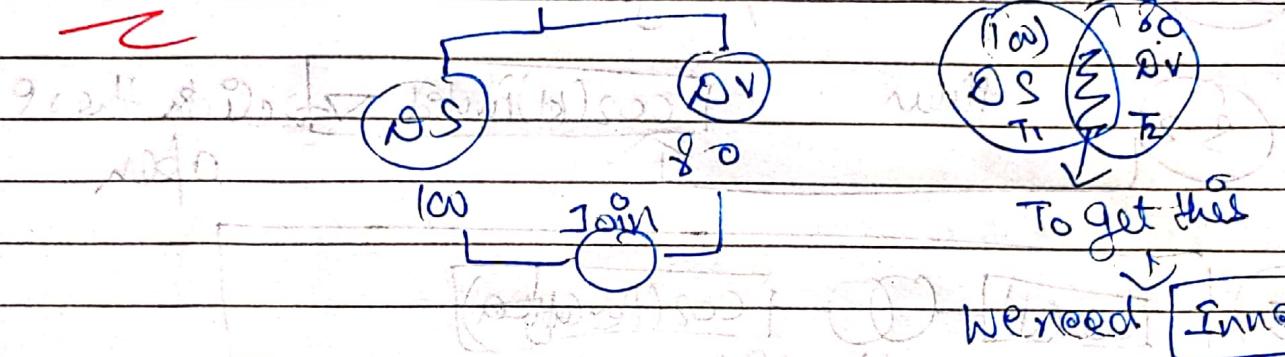
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Data operations \rightarrow Data Set \rightarrow Avg

Q) \rightarrow Top 10 Countries based on CO₂ emission & their corresponding per capita CO₂?
(avg)

Joins \rightarrow

Scales



~~DS DV~~ \rightarrow Left Join

~~DS DV~~ \rightarrow Full Join

~~DS DV~~ \rightarrow Right Join

How's Cross & Self \rightarrow Points

Self joins when a table left or right join with itself

Table 1

| | |
|--|--|
| | |
| | |

+ selfjoin

Table 2

| | |
|--|--|
| | |
| | |

Cross Join \rightarrow

| | |
|---|---|
| x | 1 |
| y | 2 |

| | |
|---|---|
| x | 3 |
| y | 4 |

| | | | |
|---|---|---|---|
| x | 1 | a | 3 |
| y | 1 | b | 4 |

\Rightarrow Row of Table 1 join to columns of Table 2

Spiral

Q4(10)

(1112) Date (80)

Q) Top 10 Countries \rightarrow CO2 (kt) Pivoted

Per Capita Data \rightarrow CO2 Per Capital (Pivoted)
(12896)

Inner join them in Tableau (Country + Year)

or (Country Name)

Left join

S-1 \rightarrow Drag & Drop first Table

S-2 then

CO2(kt)Pivoted \rightarrow click there
open

S-3

CO2(kt) CO2 CO2 (PerCapita)

click on this to change
join & add condition
which join works

To validate that our
joins correct
or not

join in Tableau Row \rightarrow T₁

Table Row \rightarrow T₂, T₃

T₁ \leq T₂ or T₁ \leq T₃

According to Condⁿ Don't take this
A v/s

Column \rightarrow CO2(kt), sum (CO2 per Capital)

Rows \rightarrow Country Name

because per
capital is
already Avg
Special

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Filter | Top 10 Country \rightarrow cotton Country Name
Year \rightarrow At least \rightarrow 2011

Relationships \rightarrow Not join but smarter way to join

[CO2(kt)]

[CO2(Per Capita)]

Select field

| | | |
|--------|---|--------|
| [ICN] | = | [ICN] |
| [Year] | = | [Year] |

- i) one to one
- ii) many to many
- iii) one to many

many to one

Join

① \rightarrow Simple Join

NB: both L > Inner

\rightarrow outer

② \rightarrow only available for single Data source

Relationship

① \rightarrow Smarter Join

NB: \rightarrow automatically detect & create joins

② \rightarrow Available for

NB: Multiple data source

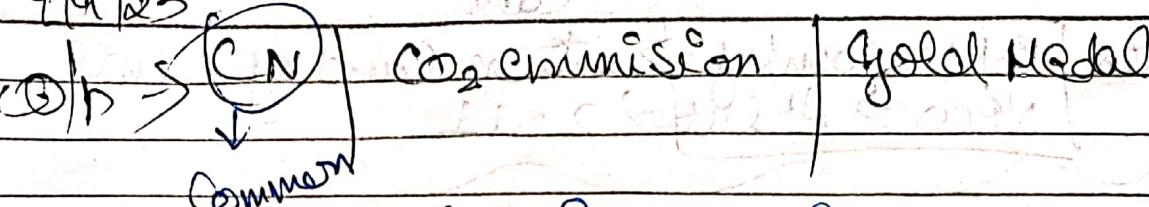
\rightarrow Blending In Tableau

③ \rightarrow Top 10 Countries / All Countries with CO₂ emission & Gold medal won

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↳ join using Countries \rightarrow Not work

↳ else Blending

First Data Source \rightarrow Primary (Left Table) \rightarrow Left Join
Second Data Source \rightarrow Secondary (Right Table) \rightarrow Right Join

④ \rightarrow Add a Data source \rightarrow Table 1

⑤ \rightarrow Add another Data source \rightarrow Table 2

⑥ \rightarrow Data Tab \rightarrow Edit Blending Table (select)

⑦ \rightarrow Other Table
List of tables
Table 1 \rightarrow Primary table
Table 2 \rightarrow select auto
Table 3 \rightarrow liaison
 \downarrow custom

You can Add join condition.

\rightarrow In Blending Primary \leftarrow left join Secondary Table
Secondary Table \leftarrow on condn auto/custom

Join Relation

v/s Blending

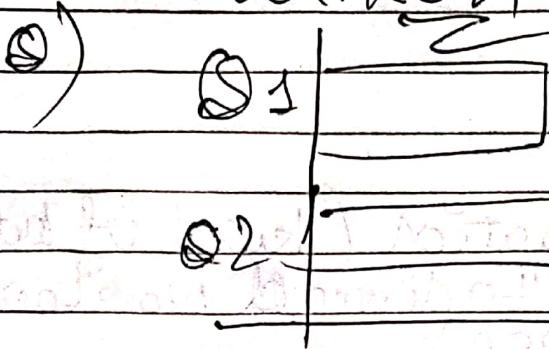
\rightarrow Single Data source
 \rightarrow So join \rightarrow Multiple join
 \rightarrow Inner
 \rightarrow outer

Multiple Data source
 \rightarrow only left join
ip of joined

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Union



Product $\frac{1}{2} \rightarrow \text{Sitter}$
 $\frac{2}{3}$

* → Joins work → horizontally

* → Union → vertically (In Tableau Union All Not available)

H/w → Joins ∪ S Union → Data append

Column → Quarters

Row → SUM(sales), SUM(profit)

In Data Source

(S-1) → Drag first table

(S-2) → Drag & Drop table 2 just below
Table 1. You will get option Union

→ Union All is not available for Tableau.

Joins

① → Joins horizontally.

② → This works as the conjunction operation.

Union

① → Append vertically.

② → This works as an intersection operation.

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Dashboards

→ Object

↳ Navigation (kind of button)

- i) Download PDF (option to download work book as PDF)
- iii) etc. → Explore yourself

Layout → Po-Blank 1 → Remove this
to edit Romy's dashboard

Action → Dashboard → Action web

↳ (I) (short cut)

↳ Is a kind of filter, change chart on basic of another chart

Source sheet → Sheet 1 → If you change something
target sheet → Sheet 2 → Then this will also change

↳ filter will generate

Filters Tab

Action (Cond)

Resolution

↳

| | |
|-----|-----------|
| min | Automatic |
|-----|-----------|

Best Option

Interview Question →

- 1) Dimensions Measure ↳ Discrete v/s Continuous
→ switching option

2) → Can connect → All Type of Data Sources

3) → DSV v/s Extract

4) → Performance Recording

Help Tab → setting & performance

Identify what affecting Tableau Performance ← → start performance Recording

5) → LOD's ↳ Includer
Excluder
Fixed

6) → Table calculation ↳ Partitioning (Scope)

7) → Addressing (Direction)

8) → Groups v/s Sets v/s Bins v/s Hierarchy

9) → Export option

10) → Parameters & its application (Top N)

11) → Order of operation (ex) Quick v/s Content

12) → Data operation (Join v/s Blending, Join v/s Union)

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Remaining Questions →

Q3 → Highest CO₂(kt)

Steps i) Use CO₂(kt) Raw data table from World Bank (Dataset)

ii) Clean Data using data interpreter

iii) Pivot years column & name 'years' for values

iv) Innerjoin b/w CO₂(kt) & Meta data - Count of el table on 'Country code'?

v) Data source filter → Region → All except Null

vi) Build visualization using region & CO₂ (Value)

→ Find which region has highest CO₂(kt) emission

→ option 2 → North America

Q4 → Gold Medals won

Steps i) Use all Medalist Table

ii) All Medalist ← NOC → team event fixed
Innerjoin

iii) Convert Edition to dimension

Country in either Row/Column

iv) Filter → country → India

v) Medal → Gold

vi) Filter → Edition → year → 1928

vii) Count of medals → Text mask

→ Find total No of gold medals won by the country India in 1928

option 2 → 15

Spiral

9/9/23 Q5) No of unique orders returned Date: 27

→ Select correct options that follow a logical step to get the total no of unique orders return for each year?

option 1 → Orders & return Table → inner join with (order id)
Rows → order id convert → measure (count distinct)
Column → order date
Mark type → bar

option 2 → orders [order id] inner join
column → order date
text Mark card → order id → convert it to
count (distinct) ← Measure

Q7) → Total Medals & CO₂ emission
Steps → i) CO₂ per capita pivoted Table
ii) Add new data source
iii) Select Team events fixed -- table from Medalist Table
iv) Edit Blend Relation & add a custom blend relation b/w
the 2 Data sources on country names
v) Primary data source → Country Name & CO₂ per
capita

vi) Filter | CO₂ per capita
Country Name → India

vii) Total → from Medal → add to CO₂ per capita
view

Option 3) → 3899 metrics & 20 Medals