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granularity)		
-> good when you explicitly need	, a flat	table
for calculations, extracts, or	specific	join
control		
* unions		
-> vertical merge - stacks tak		
-> used when tables have match	ing colu	M ns
structure  add more rows, not columns		
-> requirer same column layou	t and c	ompatible
data types across inputs		
* when to we each		
use case Relationship	Join	
	30(1)	Union
need dynamic, writext-	X	X
aware combination		

keep tables separate with different granularities	X	X
require a single first table pre-analysis		if same structure
add new rows (e.g., morthly data files)	X	
avoid aggregation	0	if mismatched
want tableau to optimize queries automatically		

https://youtu.be/4N4Ft7MEW3Y?si=uymczzaHGNnx2WGQ https://youtu.be/Aa3qVaw7u\_o?si=R6n\$1sQXG-MiVP3z https://youtu.be/FACIU67GE3I?si=O7ArP79fLH\_Q1QtZ \* data blending > data blending in tableau is a method of combining data from multiple sources that are not directly related or do not share physical relationship like database joins. -> Instead of merging the data at the row level (like joins or unions), data blending aggregates the data separately from each source and then combines those aggregated results example: scenario -> you have Sales Data in SQL and

Customer Targets in excel.	
-> no direct join possible	
-> you can use 'customer ID' on the linking	
field (blending key)	
How tableau works:	
-> It queries SQL to get SUM(Sales) per	
customer	
-> Separetely queries excel to get Target	
per customer.	
-> Combines there at visualization level.	
Customer Total Eales Sales Target	
A \$ 10,700 \$ 12,000	
B \$ 7,500 \$ 7,000	
-> Tableau use primary & secondary data	
sources in blending	
> You can recognize the blended fields by	

link	icons.		
* Data bler	iding us othe	n combination	techniques
feature	Data blending	Toins	Unions
Data relationship	loose relationship (diff. sources)	strong, direct relationship	same fields, structure
combination	aggregated level	row level	lene[
source requirements	can be from oliff. databases) files	must be from the same data Source	must be from the same data source
requirement	common field for linking (blending key)	common field for joining	same schema

flexibility	can wix	requires	requires
t	Sal, ison,	same	eame
	excel, etc.	source	structure
		connection	
execution	aft er		
order	individual	before	betone
	guery	aggregation	aggregation
	aggregation		, 0
			<u>'</u>
* Cardinalit	Υ		
-> while	creating relat	rionships, you	can also
ment	ion cardinality	such as one -	to one,
one	o-many many	1-to-one etc.	
	o-many, many		
* Referention	1 Intengrity		
7 (6.10.1611)	ii Inc. giir		
-> In tak	bleau, when you	u define a rel	.ationship
	tables, you car	specify the	referential
799	rables, god cal	1 specify me	1610101(10(
integr	ity setting in	the performan	ce obtions:

من	All records match
	you are certain that every value in
	the related field of the fact table
	exist in the dimension table.
6)	some records match
	you are unsure, or know that some
	values in the fact table may not have
	a corresponding value in the
	dimension table.