Wait! There is more …
What about Privacy ?

Due to privacy concerns, **you will not see all the identifying information** in the table, but you should have sufficient information to make decisions.

The upcoming pages will give you an understanding of how the data is disclosed on a need-to-know basis

Checkmarks: Identical Values

Identical values are shown as checkmarks.

Pair	ID	FFreq	First name	Last name	LFreq	DoB (M/D/Y)	Sex	Race
1	1234567891 ✗ 1234561291	••• 2-5	BRIAN + BRIANNA	TIPTON TIPTON	∞ ∞	09/09/1960 09/09/1960	F F	W W

Pair	ID	FFreq	First name	Last name	LFreq	DoB (M/D/Y)	Sex	Race
1	******@@** ✗ ******&&**	••• 2-5	***** + *****&&	✓ ✓	∞ ∞	✓ ✓	✓ ✓	✓ ✓

Stars Used in Similar IDs

When two items are similar, **stars** (they look like this ***) are used for characters that are the **same**.

@@@ and &&& show the characters that are **different**.

Pair	ID	FFreq	First name	Last name	LFreq	DoB(M/D/Y)	Sex	Race
	1234567891	●●●	BRIAN	TIPTON	∞	09/09/1960	F	W
1	✖		✚					
	1234561291	2-5	BRIANNA	TIPTON	∞	09/09/1960	F	W

Pair	ID	FFreq	First name	Last name	LFreq	DoB(M/D/Y)	Sex	Race
	******@@**	●●●	*****	✔	∞	✔	✔	✔
1	✖		✚					
	******&&**	2-5	*****&&	✔	∞	✔	✔	✔

*** for Missing Values

When one of the values in a pair is missing, the other one is represented by ***

Pair	ID	FFreq	First name	Last name	LFreq	DoB(M/D/Y)	Sex	Race
7	0000018335	•••	PATSY	CALLAHAN	•••	11/13/1948	F	B
	?	•••	PATSY	CALLAHAN	•••	?	F	B

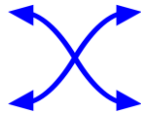| Pair	ID	FFreq	First name	Last name	LFreq	DoB(M/D/Y)	Sex	Race
7	**********	•••	✓	✓	•••	**/**/****	✓	✓
	?	•••	✓	✓	•••	?	✓	✓

Different Items

When two items are very different, they are shown as @@@ and &&&

Pair	ID	FFreq	First name	Last name	LFreq	DoB(M/D/Y)	Sex	Race
13	6556368585 (DIFF) 1092091430	① ①	WILL (DIFF) DAVE	GREENE GREENE	••• •••	07/03/1950 07/03/1950	M M	B (DIFF) W

Pair	ID	FFreq	First name	Last name	LFreq	DoB(M/D/Y)	Sex	Race
13	@@@@@@@@@@ (DIFF) &&&&&&&&&	① ①	@@@@ (DIFF) &&&&	✓ ✓	••• •••	✓ ✓	✓ ✓	@ (DIFF) &

Swaps

When columns have swapped values, the swapped parts are shown by &&& and @@@

Pair	ID	FFreq	First name	Last name	LFreq	DoB(M/D/Y)	Sex	Race
5	0000006947	①	BRYANT	MADELINE	①	02/05/1962	F	W
	0000006947	2-5	MADELINE	BRYANT	•••	05/02/1962	F	W

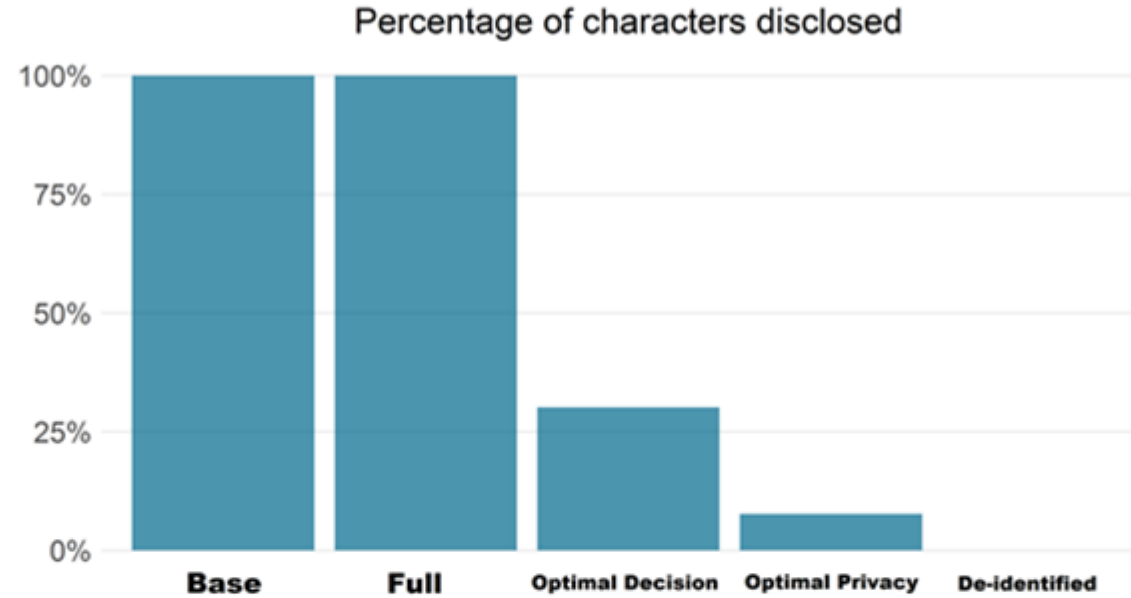| Pair	ID	FFreq	First name	Last name	LFreq	DoB(M/D/Y)	Sex	Race
5	✓	①	&&&&&&	@@@@@@@@@	①	@@/&&/****	✓	✓
	✓	2-5	@@@@@@@@@	&&&&&&	•••	&&/@@/****	✓	✓

Understand the Symbols?

Take a moment to look at the next slide carefully and understand what the symbols and icons mean for different values.

Pair	ID	FFreq	First name		Last name	LFreq	DoB(M/D/Y)	Sex	Race
1	8000002767 ✖	(1)	JUDE		WILLIAM ✚	(1)	09/09/1906 ⇄	M	W (DIFF)
	8000003567	(1)	JUDE		WILLIAM JR	(1)	09/09/1960	M	B
2	0000006947	(1)	BRYANT	✕	MADELINE	(1)	05/02/1962	F	W
	0000006947	2-5	MADELINE		BRYANT	•••	05/02/1962	F	W
3	9000018540 (DIFF)	•••	SALLY (DIFF)		BYRD	•••	07/04/1960 ✕	F (DIFF)	W
	6000008928	∞	JOHN		BYRD	•••	04/07/1960	M	?

Pair	ID	FFreq	First name		Last name	LFreq	DoB(M/D/Y)	Sex	Race
1	******@@** ✖	(1)	✔		******* ✚	(1)	**/**/**@@ ⇄	✔	@ (DIFF)
	******&&**	(1)	✔		******* &&	(1)	**/**/**&&	✔	&
2	✔	(1)	&&&&&	✕	@@@@@@@@	(1)	✔	✔	✔
	✔	2-5	@@@@@@@		&&&&&&	•••	✔	✔	✔
3	@@@@@@@@@@ (DIFF)	•••	@@@@@ (DIFF)		✔	•••	@@/&&/**** ✕	@ (DIFF)	*
	&&&&&&&&&&	∞	&&&&		✔	•••	&&/@@/****	&	?

Percentage of characters disclosed

As you can see, the five modes you just did disclose different percentage of characters.
The percentage of characters will not only affect privacy risk in each mode, but also your accuracy in record linkage.
The goal of our research is to find the balance between privacy and accuracy.

Try doing a few practice problems again as you would see them in the real study