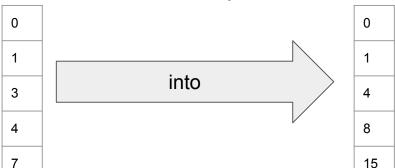
Data Science



Challenges:

Mini Challenges: Difficulty - Medium

- Maximum and Minimum only gives us 1 value, which is the largest and smallest value of a column. Can you find a way to give us the 3rd largest value and 5th smallest value in a column?
- 2. Cumulative Sum. Can you turn



with just one line?

Data Science



Challenges:

Mini Challenges: Difficulty - Medium

3. Write an if..else... code in Python to check whether a word is a palindrome or not.

Input: 'malam'

Output: 'malam' is a Palindrome

Input: 'ABBA'

Output: 'ABBA' is a Palindrome

Input: 'Python'

Output: 'Python' is not a Palindrome.

Data Science



Challenges:

Mini Challenges: Difficulty - Tricky

4. The data in 'product' column has multiple products in one row. How can we expand the table so one product only occupies one row?

		Buyer	Items Bought
Buyer	Items Bought	Aldo	book
Aldo	[book, magazine]	Aldo	magazine
Budi	[realme 8, screen protector]	Budi	realme 8
Cindy	[iPhone 11, power bank]	Budi	screen protector
Dilan	[face shield, mask, hand sanitizer]	Cindy	iPhone 11
		Cindy	power bank
		Dilan	face shield
		Dilan	mask
		Dilan	hand sanitizer



Data Science

Challenges:

Mini Challenges: Difficulty - Hard

5. Removing duplicates that may appear due to having the same products but in different orders.

Item 1	Item 2		
Buku	Majalah	Item 1	Item 2
Buku	Koran	Buku	Majalah
Majalah	Buku	Buku	Koran
iPhone	Charger	iPhone	Charger
iPhone	Power Bank	iPhone	Power Bank
Alat Tulis	Buku	Alat Tulis	Buku
Mouse	Keyboard	Mouse	Keyboard
Keyboard	Mouse		