

Challenges:

Mini Challenges: Difficulty - Medium

1. 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

0
1
3
4
7



0
1
4
8
15

with just one line?

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.

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

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		Item 1	Item 2
Buku	Majalah		Buku	Majalah
Buku	Koran		Buku	Koran
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			