task 5 {Basmala}

> ***"The world is not only a one-sided POV story"***

the same goes for the data, under the name of `Simpson's paradox`.

Simpson's paradox:-

A trend or result that is present when data is put into groups that reverse or disappear when the data is combined together.

The importance of Simpson's paradox:-

- The relationship between two variables might increase, decrease, or even change direction depending on the set of variables being controlled "not static".

- Simpson's paradox is not simply an obscure phenomenon of interest only to a small group of statisticians. Simpson's paradox is actually one of a large class of association paradoxes.

- Simpson's paradox reminds researchers that causal inferences can be hazardous, uncontrolled, and even unobserved variables that would eliminate or reverse the association observed between two variables might exist.

In our example :

the subset of fem admission procedure > the subset of male admission procedure

while in fact:-

the total sum of fem admission procedure < the total sum of male admission procedure

Helping resources:-

1. britannica

2. Simpson's Paradox

   https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKEwio9aiA47D9AhV
   aQaQEHUn7CvQQFnoECCQQAw&url=https://plato.stanford.edu/entries/paradox-simpson/&usg=AOvVaw
   00yxjj4wXlEBJKXRMi7pu-