

# الفصل 12

## تحليل البيانات

### دراسة كمية

2023

23/10/2023

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#### إحصائيات

- التحليل الإحصائي: تنظيم وتحليل البيانات الكمية باستخدام الإجراءات الإحصائية.
- الإحصاء الوصفي.

$$\text{score is } \bar{y} = b_0 + b_1 x$$

$$\text{standard error} = t_{df/2} \cdot s_e \sqrt{1 + \frac{1}{n} + \frac{n(x_0^2)}{n(\sum x^2)}}$$

$$= 3.169 \cdot 3.22 \cdot \sqrt{1 + \frac{1}{25} + \frac{25(12^2)}{25(12.0)}}$$

$$= 3.169 \cdot 3.22 \cdot \sqrt{1 + \frac{1}{25} + 12.0}$$

$$= 3.169 \cdot 3.22 \cdot \sqrt{12.01}$$

$$= 3.169 \cdot 3.22 \cdot 3.46$$

$$= 3.169 \cdot 10.87$$

$$= 33.80$$

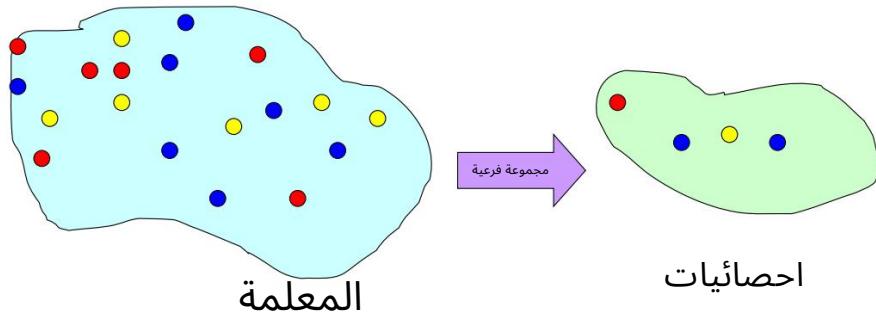
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## المفاهيم الإحصائية الرئيسية

سكان

عينة



- السكان لديهم معايير.
- العينات تحتوي على إحصائيات.

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## المفاهيم الإحصائية الرئيسية

•الرموز الإحصائية

رمز السكان

رمز العينة

إكس

•يقصد

•معيار

س انحراف

س، س د

س 2 التباين

س 2، س 2

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## إحصائيات

### •إحصائيات وصفية

•الإحصاءات التي تنظم وتلخص البيانات الرقمية التي تم جمعها من السكان والعينة.

### •الإحصاء الاستدلالي.

استخدم بيانات العينة لإجراء "الاستنتاج" حول السكان

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## إحصائيات وصفية

### 1. توزيع التردد.

•توزيع التردد: ترتيب منهجي للقيمة من الأدنى إلى الأعلى.

•حساب عدد مرات ظهور النتائج أو القيم الممثلة في البيانات

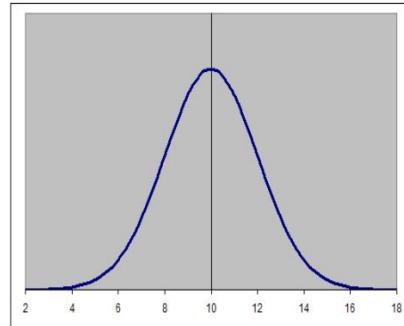


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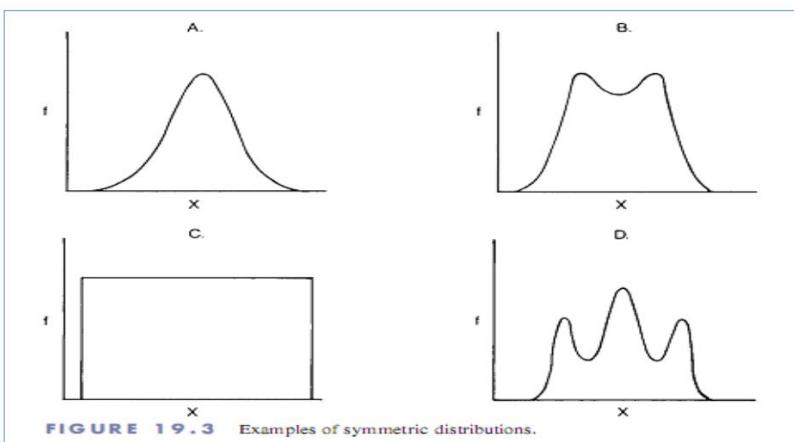
## التوزيع الطبيعي

عِيْزوتل الطَّبِيعيُّ هُوَ التَّوزِيعُ  
الْمُتَمَاثِلُ  
التَّوزِيعُ الَّذِي لَدِيهِ  
قَمَّةٌ مُركَزِيَّةٌ وَاحِدَةٌ أَوْ مُجْمُوعَةٌ  
مِنَ الْقِيمِ فِي الْوَسْطِ  
مِنَ التَّوزِيعِ



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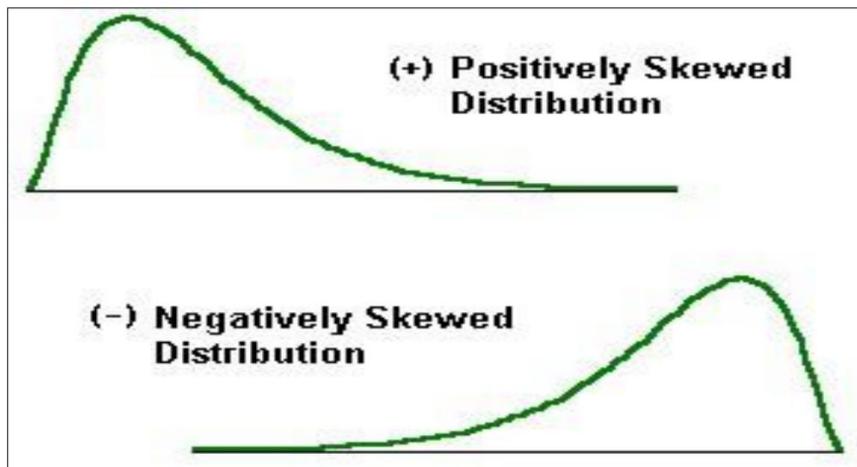
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## شكل التوزيع

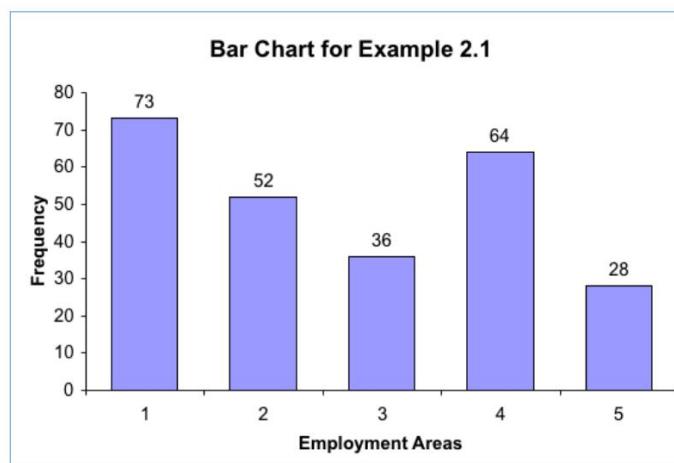


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## عرض تدريسي رسومي

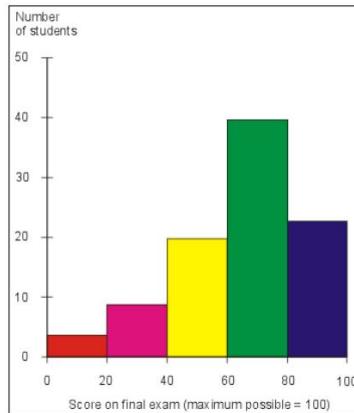
الرسم البياني الشريطي



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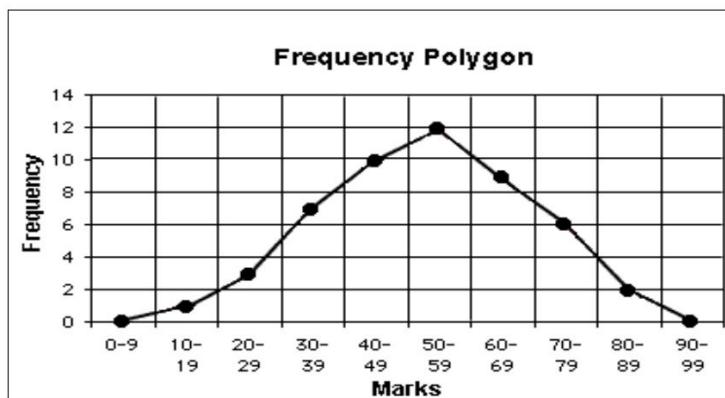
## عرض تقديمي رسومي الهيستوجرام



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## عرض تقديمي رسومي مضلع



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## الاتجاه المركزي وضع

• المتوسط هو قيمة النتيجة الأكثر حدوثاً في التوزيع.

2, 3, 4, 2, 2, 7, 9, 9, 6, 5, 2,

• المتوسط هو النقطة في التوزيع التي تقع فوقها وتحتها 50% من الحالات

2, 2, 2, 2, 3, 4, 5, 6, 7, 9, 9

• المتوسط: مجموع كل الدرجات مقسوماً على العدد الإجمالي للدرجات

$$\bar{x} = \frac{\sum_{i=1}^n x_i}{n}$$

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TABLE 19.3 Frequency Distribution of Test Scores

SCORE (X)	TALLIES	FREQUENCY (f)	PERCENTAGE (%)
15		1	1.7
16		2	3.3
17		2	3.3
18		3	5.0
19		2	3.3
20		4	6.7
21		3	5.0
22		4	6.7
23		5	8.3
24		9	15.0
25		7	11.7
26		6	10.0
27		4	6.7
28		3	5.0
29		3	5.0
30		2	3.3
		$N = 60 = \sum f$	$\Sigma \% = 100.0\%$

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TABLE 19.6 Contingency Table for Gender and Smoking Status Relationship

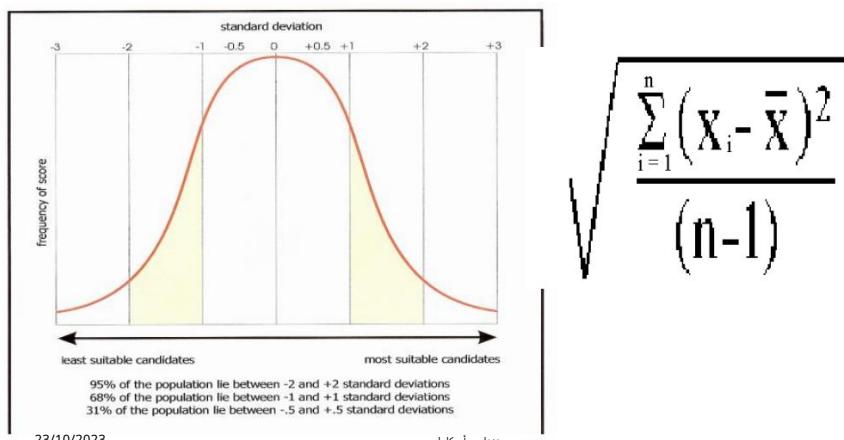
SMOKING STATUS	GENDER				Total
	Women	Men	n	%	
Nonsmoker	10	45.4	6	27.3	16 36.4
light smoker	8	36.4	8	36.4	16 36.4
Heavy smoker	4	18.2	8	36.4	12 27.3
TOTAL	22	100.0	22	100.0	44 100.0

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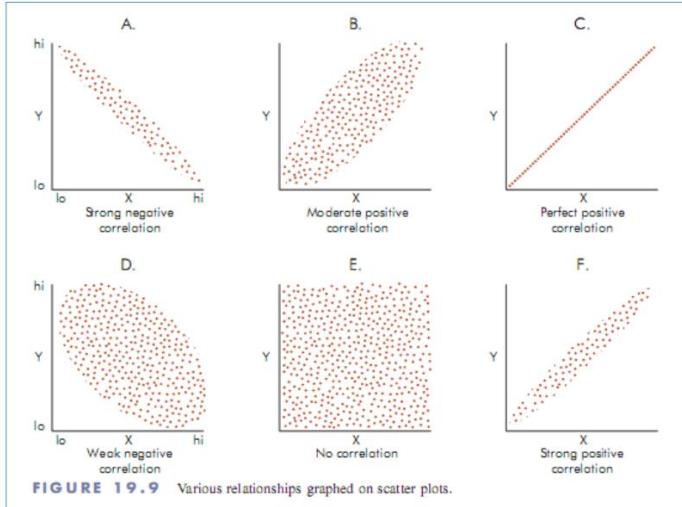
## التنوع الانحراف المعياري

• الانحراف المعياري: متوسط مقدار انحراف القيم عن المتوسط



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## تحليل البيانات دراسة نوعية

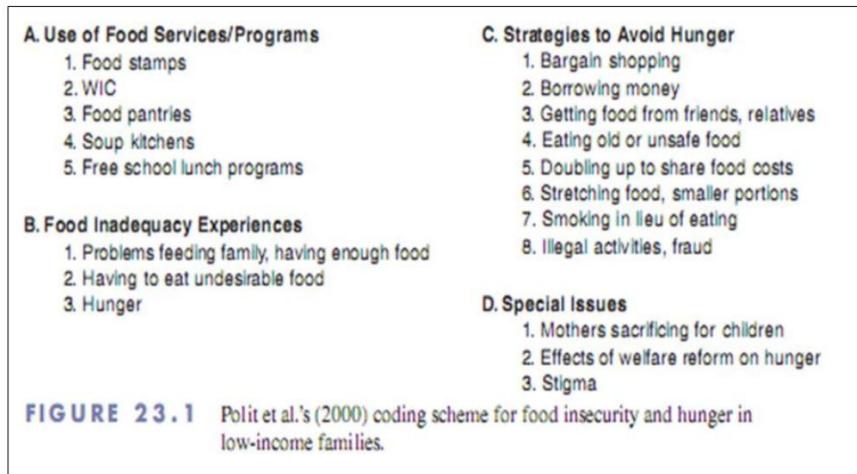
### Coding Qualitative Data

**FIGURE 23.2** Coded excerpt from Polit et al. (2000) study.

B1	I hate being on welfare, it is a pain in the butt. I don't need their cash, but the food stamps, they help a lot because it is hard, it is really hard. I got to live day by day for food for my kids. I have to call down to the shelter to get them to send you food, and you hate doing that because it is embarrassing, but I have to live day by day. I have to do things so my kids can eat. I don't worry about me, just for my kids because I can go a day without eating, but as long as my kids eat. But I never have to worry about my kids starving because I have family.	A1
D1		A3
		D3
		C3

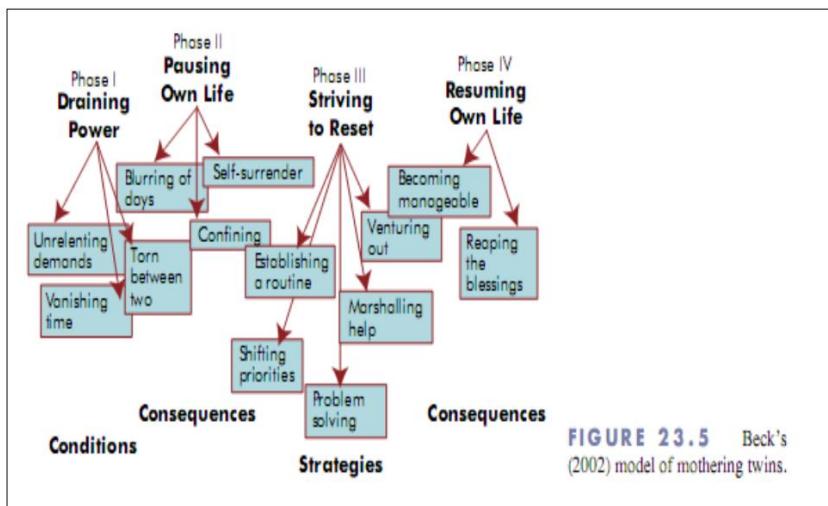
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**TABLE 23.3** Collapsing Level I Codes Into the Level II Code of "REAPING THE BLESSINGS" (Beek, 2002)

QUOTE	LEVEL I CODE
I enjoy just watching the twins interact so much. Especially now that they are mobile. They are not walking yet but they are crawling. I will tell you they are already playing. Like one will go around the corner and kind of peek around and they play hide and seek. They crawl after each other. (3)	Enjoying Twins
With twins it's amazing. She was sick and she had a fever. He was the one acting sick. She didn't seem like she was sick at all. He was. We watched him for like 6-8 hours. We gave her the medicine and he started calming down. Like WOW! That is so weird. Cause you read about it but it's like, Oh come on! You know that doesn't really happen and it does. It's really neat to see. (15)	Amazing
These days it's really neat cause you go to the store or you go out and people are like "Oh, they are twins, how nice". And I say, "Yeah they are. Look, look at my kids". (15)	Getting Attention
I just feel blessed to have two. I just feel like I am twice as lucky as a mom who has one baby. I mean that's the best part. It's just that instead of having one baby to watch grow and change and develop and become a toddler and school age child you have two. (11)	Feeling Blessed
It's very exciting. It's interesting and it's fun to see them and how the twin bond really is. There really is a twin bond. You read about it and you hear about it but until you experience it, you just don't understand. One time they were both crying and they were fed. They were changed and burped. There was nothing wrong. I couldn't figure out what was wrong. So I said to myself, "I am just going to put them together and close the door." I put them in my bed together and they patty caked their hands and put their noses together and just looked at each other and went right to sleep. (15)	Twin Bonding

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