



وزارة التعليم العالي والبحث العلمي الجامعة التكنولوجية

Statistics Laboratory Guide

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وزارة التعليم العالي والبحث العلمي الجامعة التكنولوجية

Statistics

تثبيت برنامج Statistica : نقوم بفتح فولدر التنصيب , فنجد الملفات التالية :

Favorites	فولدر التقعيل	Date modified	Туре	Size
E Desktop	Crack	T+10/+//1 - p +T:0T	File folder	
\rm Downloads	📙 English	1-10/+//) - p -T:0T	File folder	
📃 Recent Places	J MULTIMED	1+10/+1/1+ ++++:07	File folder	
	Update MR-2	T-10/-1/1- p -T:07	File folder	
📕 Libraries	لا نامح Version Mana	T+10/+//1+ + +T:07	File folder	
Documents	autorun.inf	10:0V + 1-17 - 10:0V	Setup Information	1 KB
J Music	CDSTART.exe	10:04 a 7+0/+0/+7	Application	40 KB
E Pictures				
Videos				
🖳 Computer				
Network				

نضغط على CDSTART.exe لبدء بعملية التنصيب, فيظهر لنا مربع الحوار التالي والذي نضغط فيه على Install Statistica :



عند الضغط على Install Statistica سيظهر لنا مربع حوار اخر نختار منه عبارة (yes) , وستستمر عملية التنصيب ليظهر لنا مربع اخر نختار منه عبارة Next





وزارة التعليم العالي والبحث العلمي الجامعة التكنولوجية



لنصل الى مربع حوار اخر يطلب فيه ادخال مفتاح CD والموجود في ملف ال (Crack) وكما ممثل ادناة :

CD Key / Net ID					×
Enter the 20-digit CD Key a You will find the keys on a stick below the serial number.	nd Network ID (i ter on the back of yo	f present). our CD case,	_		
	CD Key: Net ID:	، هنا ادخال ح البرنامج نیت علی Cd	يطلب مفتار ما	یترك فار غا	
M StatSoft					
Installipteld	-	< <u>B</u> ack	<u>N</u> ext >		Cancel

ناخذ المفتاح من ملف Crack وكما مبين في الخطوات التالية :





وزارة التعليم العالي والبحث العلمي الجامعة التكنولوجية

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Image: State index in the state index in	Crack T + 10/-1//1 + p + 7bT File folder Downloads English T + 10/-1/1 + p + 7bT File folder Dibaries MULTIMED T + 10/-1/1 + p + 7bT File folder Dibaries Vesion Manager T + 10/-1/1 + p + 7bT File folder Dibaries Vesion Manager T + 10/-1/1 + p + 7bT File folder Dibaries Vesion Manager T + 10/-1/1 + p + 7bT File folder Music Decuments autoruninf T + - 4/-1 + - 20/ Setup Information 1 K Pictures autoruninf T + - 4/-0/-1 + - 20/ Application 40 K Vesion Music Different 1 K T + - 4/-0/-1 + - 20/ Application 40 K Veteos Computer Name Date modified Type Size Computer Name Date modified Type Size T + - 4/-0/-1 + -20/ Test Document 1 K Downloads Fraorites Internet Statts T + - 4/-0/-1 + -20/ Test Document 1 K Music Downloads Statts T + - 4/-0/-1 + -20/ Test Document 1 K	Image: State Sta	+ Favorites	Name	Date modifie	d Type	Size
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وزارة التعليم العالي والبحث العلمي الجامعة التكنولوجية

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وزارة التعليم العالي والبحث العلمي الجامعة التكنولوجية

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وزارة التعليم العالي والبحث العلمي الجامعة التكنولوجية



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Statistics Laboratory Guide



وزارة التعليم العالي والبحث العلمي الجامعة التكنولوجية

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وزارة التعليم العالي والبحث العلمي الجامعة التكنولوجية

Statistics

هو العلم الذي يبحث في طرائق جمع البيانات وتبويبها وتحليلها من خلال مجموعة من الطرائق الرياضية أو البيانية. وتهدف هذه العملية الى وصف متغير أو مجموعة من المتغيرات من خلال مجموعة من البيانات (المستقاة من العينة) والتوصل بالتالي الى قرارات تعمم على المجتمع الذي أخذت منه العينة. ولأجل الوصول الى نتائج هذة القرارات يتم استخدام مجموعة من البرامج الاحصائية ومنها برنامج Statistica والذي يُعد أحد اهم وأشهر البرامج المستخدمة في مجال المعالجة الاحصائية للبيانات لما يتمتع بة من خصائص اهمها بساطة الاستخدام وسهولة الفهم.

Working environment and Statistical data entry program عند فتح البرنامج ستظهر لنا الواجهه التالية والتي تمثل الشاشة الرئيسية للبرنامج

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ومثل اغلب البرامج الاحصائية يحتوي البرنامج على Title Bar و Menu Bar و Standard Bar و Bar





وزارة التعليم العالي والبحث العلمي الجامعة التكنولوجية

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من خلال الشاشة الرئيسية للبرنامج نلاحظ وجود عشرة اعمدة وصفوف, وفي الكثير من الاحيان نحتاج الى اكثر من عشرة اعمدة وصفوف لادخال البيانات وعلية نحتاج الى زيادة عدها وتكون آلية زيادة الاعمدة كألاتي : الطريقة الاولى :

Insert--- Add Variables الطريقة الثانية : من خلال الشريط Formatting Bar وبالضغط على Vars ثم Add وفي كلا الحالتين سيظهر لذا مربع الحوار التالي :





وزارة التعليم العالي والبحث العلمي الجامعة التكنولوجية

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من اعلاة نستنتج اننا نرغب في اضافة خمسة اعمدة تأتي بالترتيب بعد العمود العاشر وان اسم هذة الاعمدة هو New Var (يمكن تغير اسم العمود الى X او Y او اي تسمية نريدها) ثم نضغط OK للنحصل على الشكل التالي :

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ونفس الخطوات في حالة اضافة صفوف : الطريقة الاولى :

Insert--- Add Cases







وزارة التعليم العالي والبحث العلمي الجامعة التكنولوجية

الطريقة الثانية : من خلال الشريط Formatting Bar وبالضغط على Cases ثم Add لنحصل على معوار التالي

1 2 3 4 5 6 7 8 9 10 11 12 13 Var1 Var2 Var3 Var4 Var5 Var6 Var7 Var8 Var9 Var10 NewVar1 NewVar2 NewVar3 1 1 1 12 13 NewVar3 NewVar3 NewVar3 NewVar3 2 1 1 14 14 14 NewVar3 NewVar3 3 1 1 14 14 14 14 14 14	14 13 NewVar4 New
1 2 3 Add Cases	
4 5 6 How many: 15 🔮 OK	
7 المعلوف المناظة Insert after case: 10 Cancel 8 Use 0 to insert before first case.	

سنضيف هنا خمسة صفوف ترتيبها بعد الصف العاشر. اما اذا اردنا حذف عامود فنستطيع اما من خلال تضليل العمود المراد حذفة ثم نضغط على الزر الايمن للماوس فيظهر لنا مربع حوار نختار منة Delete Variables فيظهر لنا مربع حوار للتأكيد على حذف العمود ثم OK, او من خلال الشريط Formatting Bar وبالضغط على Vars ثم Delete ثم نحصل على صندوق حوار للتأكيد على عملية الحذف وهو كالأتى:

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ثم نضغط OK , و هكذا الحال في حالة حذف صف .

اذا اردنا ان نمسح بيانات عامود اوصف معين من دون ان نقوم بحذف ذلك الصف او العمود نستخدم الايعاز Clear, اذ نقوم بتضليل العمود ومن ثم الضغط على الزر الايمن للماوس ومن ثم نختار. Clear.





وزارة التعليم العالي والبحث العلمي الجامعة التكنولوجية

ومن قائمة (Vars) ايضا" نلاحظ وجود الامر (move) الذي يمكن الاستفادة منة لنقل الاعمدة , لنفرض انه لدينا الجدول التالي :

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سنحصل على مربع حوار نستخدمة لتحديد ارقام الاعمدة المراد نقلها وترتيبها الجديد , وكما موضح :





وزارة التعليم العالي والبحث العلمي الجامعة التكنولوجية

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ويمكن نقل الصفوف بالطريقة ذاتها .





وزارة التعليم العالي والبحث العلمي الجامعة التكنولوجية

Using Statistica in statistical analysis

سنحاول وبشكل مبسط استخدام البرنامج في حساب جدول التوزيع التكراري (Frequency Distribution Table)

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48.9	50.6	50.6	50.3	49.4	50.2	50.6	50.8

طريقة الحل :

دخل القيم الموجودة في الجدول بشكل عامودي (العمود Var3) .

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Statistics Laboratory Guide



وزارة التعليم العالي والبحث العلمي الجامعة التكنولوجية

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- 1. Find minimum and maximum and variance.
- 2. Find standard deviation, mean, mode.
- 3. Find second max frequency.
- 4. Find max class mark and its frequency?
- 5. Find max frequency.
- 6. Find second class mark and its frequency.

فبعد ادخال البيانات المعطاه في المثال التطبيقي السابق , نطبق الخطوات المبينة في الشرح المصور التالي :

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وزارة التعليم العالي والبحث العلمي الجامعة التكنولوجية

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ولايجاد المطالب الثلاثة المتبقية فيتم ذلك من خلال الرسم, ولايجاد الرسم:



Statistics Basic Statistics/Tables...... Descriptive Statistics...... Ok Histogram.



نقوم بالضغط على على شكل ال Histogram ومن ثم Right click تظهر لذا قائمة حوار نختار منه الأمر Line تظهر لذا شكل منها Plot Properties فتظهر لذا مربع حوار جديد نختار منة الأمر Line هذا سيظهر لذا شكل Histogram وكما مبين Freguency Curve وكما مبين هذا :



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ولأزالة Histogram نقوم بالضغط على على شكل ال Histogram ومن ثم Right click تظهر لنا قائمة حوار نختار منها Bar Option ثم نزيل اشارة الصح من المربع Display Bars ومن ثم OK .

49.5

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فنحصل على الشكل التالي :









وزارة التعليم العالي والبحث العلمي الجامعة التكنولوجية





وعلية يمكن استخراج النتائج كالأتي :





وزارة التعليم العالي والبحث العلمي الجامعة التكنولوجية







وزارة التعليم العالي والبحث العلمي الجامعة التكنولوجية

REGRESSION AND CORRELATION (CURVE FITTING)

1. تمثل x المتغير المستقل (independent variable) , بينما تمثل y قيمة المتغير المعتمد (dependent variable) .
2. نفرض معادلة بالشكل الاتي (x) (x) .
3. انفرض معادلة بالشكل الاتي (x) (y) .
4. ملاحظة A: ان قيم (y) المدخلة تسمى بـ (القيم الملاحظة – y observed) والتي يمكن تعريفها بكونها مجموعة القيم المعطاة في السؤال , في حين تسمى قيم (y) المستخرجة بالاعتماد على قيم (x) المعطاة بـ (القيم المحادلة الرياضية المستخرجة بالاعتماد على قيم (x) المعتماد جالاعتماد على قيم (x) المعطاة بـ (القيم الملاحظة – y observed) .
5. اند من (x) المعطاة بـ (القيم الموال , في حين تسمى قيم (x) المستخرجة بالاعتماد على قيم (x) المعتماد على قيم (x) المعطاة بـ (القيم المحلة الرياضية المغروضة .
• B : ان كلا" من قيم (x) و (y) تسلك سلوك معادلة الخط المستقيم , أي

Y=ax+b

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.(intercept	حيث ان (a) تمثل قيمة الميل - slope و(b) تمثل قيمة التقاطع (
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Y=a+b*x استخدام المعادلة. 1

2. استخدام المعادلة Y=a*x

الحل /

انقوم بتغيير اسماءالاعمدة وإدخال القيم وكما موضح :

	1 y	2 x	3 Var3	4 Var4	5 Var5	6 Var6	7 Var7	8 Var8	9 Var9	10 Var10	11 NewVar
1	8.9	2		and the state of the second se			Prior sufficient	a state of the	Charles and		
2	12.5	2.3				1					
3	14.3	2.5					-				
4	15.2	3.1									
5	17.4	3.6									
6	19	3.9									
7	21.2	4.3									
8	23	5								1	
9	26.9	5.5			1	1			1		
10	27.5	6.2				1			1		

ثم

Statistica ----Advanced liner/nonlinear- ---Non liner Estimation





وزارة التعليم العالي والبحث العلمي الجامعة التكنولوجية

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al	•	10 •	Basic Statistics/Tables <u>Multiple Regression</u>	ो । औ ∰ # @ ` 🗃 🖨 👌 । २ 🛱 Vars • Cases • 🔯 • 🔯 •
1	1 y 8.9	2 x 2	ANOVA Al Monparametrics Distribution Fitting	8 9 10 11 7 Var8 Var9 Var10 NewVar
2 3 4	12.5 14.3 15.2	2.3 2.5 3.1	Advanced Linear/Nonlinear Models	Bitting General Linear Models Bitting Generaliged Linear/Nonlinear Models
5 6	17.4 19	3.6 3.9	E Industrial Statistics & Soc Sigma	General Regression Models
7	21.2	4.3	Ry Automated Neural Networks	Igu NuFi S Algorithm (PCA/PLS)
9 10	26.9	6.2	U Vanance Estimation and Precision (VEPAC) Statistics of Block Data	A Surgival romation
			STATISTICA <u>V</u> isual Basic Batch (ByGroup) Analysis	Fored Nonlinear Regression E Log-Linear Analysis of Frequency Tables
		2	A Pro <u>b</u> ability Calculator	유표 Initial Soliday Occessing 용품 Structural Equation Modeling

ستظهر لنا نافذة صغيرة تحتوي على عدة خيارات نختار منها الاختيار الثاني Used Specified Regression / Custom loss Function

1	y g g	X 2	Var3	Var4	Var5	Var6	Var7	Var8	Var9	Var10	NewVa
2	10.5	22		ė –			-			-	-
2	14.0	2.5	-	-			-		-	-	
2	14.5	2.5			ar Estimatic	n: Spreadsh	eet1.sta		-	×	
4	15.2	3.1			-						
5	17.4	3.6		1.1.1				1	1 1270	-	1.1
6	19	3.9		Quick							
7	21.2	4.3		1.40			7	_			
8	23	5		user Use	r-specified re	gression, lea	st squares		Lancel		
9	26.9	5.5		USER USE							
10	27.5	6.2		Luct Out	- I P	-					
				Cui	ata W	ok					
				You can also dependent va							