Client 0 1 2 3 4 65164	'read' the csv fi = pd.read_csv('de								
3 4 	t_ID Office_ID BSOD_ 1 88 1 124	_count Hard_reset_co 0 0	Dunt Boot_Speed I 0 9824 11 204075	8520 34036	0.005 0.001	0.000	180269625344 190256279552		
	1 172 1 732 1 172 9 283	1 0 0 0	21 51930 0 167701 1 235541 0 8136	15774 3633 19340 18113	0.000 0.000 0.009 0.002	0.000 0.000 0.000 0.114	198199214080 198328692736 177966186496 21484277760		
55165 55166 55167 55168 5169 rows ×	9 636 9 626 9 124 9 183	0 0 0 0	0 30709 0 10907 0 12038 0 32162	70357 40337 23904 40562	0.000 0.020 0.004 0.004	0.000 0.000 0.000 0.000	377559977984 156750188544 145551847424 383183306752		
unction f xMin_x xMinxM	to calculate the X Max_calculator (da lax = dataFrame.loc	itaFrame):					02, 0.98])		
sultado sultado	xMinxMax = xMin_xMax_calcul count Hard_reset_coun 0.0 0		on_Duration CPU_L			Free_Space 714007e+09			
.98 make a co fCopy = d iterate t	0.0 2 opy of the original f_dpiData.copy() through the columns	.0 109884.68 I data set, to per S and normalize ea	96496.88 rfrom operations	0.046 0.8 S with the dat	9164 4.	471692e+11			
r column x = ((#becau #are a with p x. x = x.	in dfCopy.columns dfCopy[column]-res see both Xmin and X actually considered d.option_context(' fillna(0, inplace= apply(lambda v: mi [column] = x	S[2:]: Sultado[column][0 Kmax (2 and 98 per Moutliers, I repumode.use_inf_as_r True)	.02])/(resultado rcentiles) for E laced inf and na na', True):	o[column][0.98 3SOD_count are]-resultado 0, meaning	[column][0.02]			
Сору	t_ID Office_ID BSOD_ 1 88 1 124	0	0.0 0.049401 1.0 1.000000	0.051856 0.326847	CPU_Usage M 0.108696 0.021739	emory_Usage Sy 0.000000 0.000000	ystem_Free_Space 0.400839 0.423258		
2 3 4	1 172 1 732 1 172 	0 0 	1.0 0.449418 0.0 1.000000 0.5 1.000000 	0.130034 0.000000 0.168465 	0.000000 0.000000 0.195652 	0.000000 0.000000 0.000000 	0.441089 0.441379 0.395668 		
65164 65165 65166 65167 65168	 9 283 9 636 9 626 9 124 9 183 	0 0 0	0.0 0.033365 0.0 0.247813 0.0 0.059690 0.0 0.070435 0.0 0.261617	0.155242 0.718285 0.394754 0.217652 0.397179	0.043478 0.000000 0.434783 0.086957 0.086957	0.127854 0.000000 0.000000 0.000000 0.000000	0.044382 0.843735 0.348040 0.322901 0.856358		
for column	hrough the columns in dfCopy.columns [column] = dfCopy[8[2:8]:		except for the	column Sys	tem_Free_Space	е		
	t_ID Office_ID BSOD_ 1 88 1 124 1 172	1	Dunt Boot_Speed I 1.0 0.950599 0.0 0.000000 0.0 0.550582	0.948144 0.673153 0.869966	CPU_Usage M 0.891304 0.978261 1.000000	1.000000 1.000000 1.000000	0.400839 0.423258 0.441089		
3 4 65164 65165	1 732 1 172 9 283 9 636	1 1	1.0 0.000000 0.5 0.000000 1.0 0.966635 1.0 0.752187	1.000000 0.831535 0.844758 0.281715	1.000000 0.804348 0.956522 1.000000	1.000000 1.000000 0.872146 1.000000	0.441379 0.395668 0.044382 0.843735		
65165 65166 65167 65168	9 626 9 124 9 183	1	1.0 0.752187 1.0 0.940310 1.0 0.929565 1.0 0.738383	0.281715 0.605246 0.782348 0.602821	0.565217 0.913043 0.913043	1.000000 1.000000 1.000000	0.843735 0.348040 0.322901 0.856358		
#created a col_list = del col_li	list with the name list(dfCopy)			sum the value	s for each	row, excludin	g the Client_Id and Offi	e_id	
dfCopy	t_ID Office_ID BSOD_ 1 88	_count Hard_reset_co		_ogon_Duration 0.948144	CPU_Usage M 0.891304	emory_Usage Sy	ystem_Free_Space DPI 0.400839 8.844123		
1 2 3 4	1 124 1 172 1 732 1 172	1 1 1	0.0 0.000000 0.0 0.550582 1.0 0.000000 0.5 0.000000	0.673153 0.869966 1.000000 0.831535	0.978261 1.000000 1.000000 0.804348	1.000000 1.000000 1.000000 1.000000	0.423258 5.820959 0.441089 6.945196 0.441379 7.773399 0.395668 6.473643		
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#I group t #first I c def q25(x)				based on the	calculated	DPI			
return ef q75(x) return lient_gro	x.quantile(0.25) : x.quantile(0.75) oup = df_dpiData.gr	oupby(['Client_II'td median mii		count', 'mean' q25 q75	, 'std', 'm	edian', 'min'	, 'max', q25, q75])		
2 27	747 8.171885 0.74968 7061 7.579661 0.95843 77 8.616359 0.90840 0849 8.414967 0.60387	38 7.754950 2.381598 01 8.514863 6.312593	8 9.736532 7.013 1 9.956028 8.007	942 8.343630 548 9.384459					
5 1 6 1 7 11 8 9	.431 8.542190 0.68411 .360 8.080344 0.87792 .870 7.916748 0.78460 .965 8.756074 0.78411	8.735744 4.703036 8.316343 4.370386 95 8.013568 3.393475 8.8851732 4.547216	6 9.962908 8.207 8 9.761934 7.471 5 9.940652 7.419 6 10.000000 8.373	9.002747 866 8.895051 211 8.455225 187 9.369694					
o betwe	.809 7.908599 0.83072 en customers nt with the best DPI is a nt with the worse DPI is	number 8 with mean	value of 8.76		est std and "	e lowest min · ·	e detected. It has the greatest	number of devices tested	
• Client 3 Oata was gglist = LientAnd0	grouped by Client ['count', 'mean', office_group = df_d	r of devices tested Id and by Office 'std', 'median', IpiData.groupby([Id to evaluate	differences k 25, q75]	etween offi	ces for each (1551GU	
entAnd0 <i>N value</i>	office_group.head(1 es for std exist be e calculated. count mea	100)	some offices tha				, hence the std		
Of 1	27 86 8.45401 31 86 8.16613 88 41 8.22708 124 58 7.87870	18 0.610713 8.68078 30 0.641990 8.38343 38 0.556931 8.37590 09 0.771962 8.19573	39 5.800290 9.0645 09 6.417684 8.9404 38 5.820959 8.8009	7.683414 8.62 7.878805 8.62 7.352118 8.64	624845 619285 100421				
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