Na No.

Basic statistical commands on the dataset using R & data explosation. Problem Statement: on the given dataset of explore the data to obtain useful information. Pre-Lob:will help in executing R commands on the given dataser. Statistics commands in R:-1) Means-In Rid mean can be calculated on an isolated variable. Altoonatively, a mean can be calculated for each of the variable in a dataset by using the main (DATAVAR) command, where DATAVAR FA the name of the variable containing the data. The sintanis: mean (x, town = 0, narom = FALSE, ...) × is a i/p vector. troin, is used to drop some observations from end of the sooted vector. nation is used to remove the missing values from the ilp vector.

a) Median: The middle most value in a data services is called the median. The syntax is: median (x, na.om = FALSE) x is the ile vector. The mode is the value that has highest no. of occurances in a set of data. Unlike mean of median mede can have both numeroic of charo data. Ridges not have a standard in-build function to calculate mode. so une create a user fun to calculate mode of duta set in R. # made by frequencies: table (mydalas Country) # gives no of occurances of each value in the vector # calculation of mode. occurrances of a persticular value. de Bar names (300+ (+001e (mydatas country))) # gives the value which has man occurrances. The state of the s 4) standard Deviation: Within R, standard deviations are calculated in the same way as means. The stal deviation of a single varsiable can be computed with the sd (VAR) command, where VAR is the name of the varoiable whose std deviation you wish to retoine

1		Date: / /20
8		The syntax is:
		5d (N. Da. nm = FALSE)
-		Sa CAI AND FALSE
-		a is the ip vector.
		na om is used to bemove the missing values from
-		ilp vector.
	1	
	6	Range:
	41-	Minimum & maximum:
		Keeping with the patteren,
		a minimum can be computed on a single vedable using
		the min(VAR) commandia
		The syntax is:
		min(x)
		The more, via mex (VAR), operators identically.
		The syntax is: -
		max(x)
		x is a ilp vectors.
		Range can be computed on a single variable using the range (MAR) command which gives min of
		max value from the single variable.
-		The syntax is:
		range (n).
21		x is ilp vector.
	1	Rocentiles:
	6)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	6.1)	vaves from leaching (damines).
	77.4	set & desired perscentile, a corresponding value
		can be found using the following command:
		quantile (VAR, CCPROBL, PROB2, C.)
	200	Pooja

Percentile from value (Percentile Ronk): situation, where a perocentile rank consesponding to a given value is needed, one has to devide a in calculating a perscentile rank.) count the po. of data points that are at or below the given value.

g divide by the total no of data pts.

multiple by 100. perocentile rank = length (VAR [VAR = VAL])/length (VAR) +100. where war is name of the variable of vallis the given value. This formula makes use of the length fun in 2 variations. The 1st, length (VARC VAR (= VALJ), counts the no of data points in a variable that are below the given voice! Note that the " = " operator can be appliced with other combinations of the (1) if = operators. supposing that the fun we've to be applied to diff. scenarios. 7) 1- Number summary: -: A 5- numbers sumaroj 13 a set of 5 descriptive statistics for summirrizing a confinuous universiate data set. It consists of the data setis. minimumi 1st quardile median.

T	and quantile.								
	D'I a M								
1	Thes is a simple but very usofal way of summari-								
	zing tour data for several reasons.								
	The oregin gives a measure of the centre of								
	He date.								
	The act	in of	maa	anna the 10	ange of da	fq.			
-		min of max gives the range of data. 1st of sod quartiles give a senge of the sead of the data respectably when compared to n. max of median. Intax is: - venum(x) silp vection.							
	The La	spocad of the data respectably when compact							
-	spread of the dary respectant								
-									
-	Sintax is:								
	firenum(x)								
-									
-	Summary (a)								
-	a la share atatical functions on								
-	Tersto	the dataset given below:							
	the da	raser	ance!	NOOSCHIL DREN	WEIGHT	HETGENT.			
-	NO	SEA	THEE	Modicination	72-2				
	1	0	7	1	65	15 8			
	2.	1	70	3	100	175			
	3.	0	45	0	71	162			
	4.	0	38	2	18	164			
	5.	0	25	1	81	170			
	6.	1	50	4	68	172			
	7.	1	61	0	85	179.			
				he above statistical functions and the above statistical functions and the bebooms of the sengent the sengent the sengent to t					
	Explosio	Explosing Data in R:							
	The following commands								
	a se us	sed to	explo	roc the deuta in	RU				
						Pooja			