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Assignment 3

Title: Descriptive statistics measure of central tendency and voliance

Problem State ment:

Perform following on nha & iris dataset

1. Provide summary statistics (mean, std, min, max etc) for a dataset (age, in come etc) with

numeric variables grouped by categorical variables

for eg. if categorical column is team then you may group other numeric columns by team. then

provide summary on grouped data. 2. Create a python program to describe statistical

date about iris dataset grouped by specks column provide output of explain everything you do

objective:

i provide statistical summary for sample data

2. To identify some basic statistical details about some column

Outcome Student will be able to:

1. Calculate mean, median, min, max, std dev etc

2. Identify basic statistical details of some

H/10 and S/10 requirements:

64 bit lyindows Os, 89B RAM

python, jupytor notebook.

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	Theon
-	central tendancy
	Value that gives/ summarizes some sample
	data. concerns with average of values
	Variability.
	study of spread of data points about its
	central values is called as variability
	U
	Measure of central tendency
	1. Mean: defined as average of data points it is
	calculated as sum of data by the total number
	of data points.
	N N
	2. Median: central value of data observations
	x_1, x_2, x_3, x_4, x_5
	political and the second secon
	3. mode: data value occurring maximum number of times
	· ·
	4. measure of variability
	Range The lowest of highest values of a data sample
	5. Standard deviation
	defined as the not of average of difference
	of datapoints from mean's square.
	$\sqrt{\frac{2(x_i-z)^2}{N}}$

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Analysis of datasets:			
- player who play in center(c) have	highest salary		
- max salary paid to small forward (s - the mean age of players is almost	F)		
- maximum 4 minimum age of players	in NBA is 40 419		
- players in age group 30-39 have	maximum regiary		
and in age group 10-19 are given le	ess salary.		
	•		
iris.csv.	·		
average values of iris-setosa is mo			
width in comparison to other vari			
although any sepally of versicolor > virginica.			
the any petalli of vesicolor < virgin) I C W		
conclusion:			
students learned descriptive	analysis,		
Measures of central tendency and			
performing various operations of give	en dataset using		
	<u> </u>		