

Student's Name:	Mobile No:
Roll Number:	Branch:

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Table 1 Mean, median, mode, minimum, maximum and standard deviation for all the attributes

S. No.	Attributes	Mean	Median	Mode	Min.	Max.	S.D.
1	pregs						
2	plas						
3	pres (in mm Hg)						
4	skin (in mm)						
5	test (in mu U/mL)						
6	BMI (in kg/m ²)						
7	pedi						
8	Age (in years)						

Inferences:

- 1. Infer if there is any relation between the magnitude of standard deviation and mean, mode and median values.(Hint: If standard deviation is close to zero; are mean, median and mode close to each other?)
- 2. Inference 2(You may add or delete the number of inferences)

2 a.

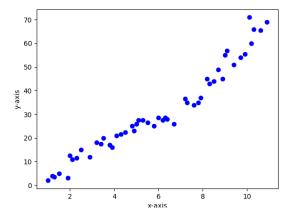


Figure 1 Scatter plot: Age (in years) vs. pregs



Inferences:

- 1. Infer how the attribute 1 is correlated to attribute 2 based upon spread of the data points
- 2. Inference based on density of points
- 3. Inference 3(You may add or delete the number of inferences)

 Note: The scatter plot above is for illustration purpose. Replace it with the scatter plot obtained by you. Rename x-axis legend with Age (in years) and y-axis legend with pregs.

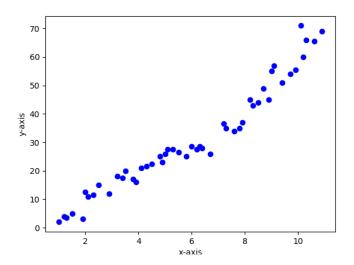


Figure 2 Scatter plot: Age (in years) vs. plas

- 1. Infer how the attribute 1 is correlated to attribute 2 based upon spread of the data points
- 2. Inference based on density of points
- 3. Inference 3(You may add or delete the number of inferences)

 Note: The scatter plot above is for illustration purpose. Replace it with the scatter plot obtained by you. Rename x-axis legend with Age (in years) and y-axis legend with plas.



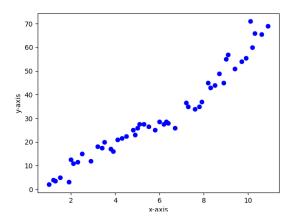


Figure 3 Scatter plot: Age (in years) vs. pres (in mm Hg)

Inferences:

- 1. Infer how the attribute 1 is correlated to attribute 2 based upon spread of the data points
- 2. Inference based on density of points
- 3. Inference 3(You may add or delete the number of inferences)

 Note: The scatter plot above is for illustration purpose. Replace it with the scatter plot obtained by you. Rename x-axis legend with Age (in years) and y-axis legend with pres (in mm Hg).

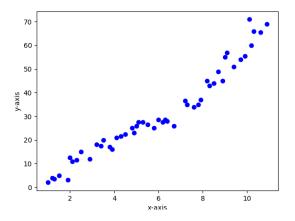


Figure 4 Scatter plot: Age (in years) vs. skin (in mm)

- 1. Infer how the attribute 1 is correlated to attribute 2 based upon spread of the data points
- 2. Inference based on density of points
- 3. Inference 3(You may add or delete the number of inferences)



Note: The scatter plot above is for illustration purpose. Replace it with the scatter plot obtained by you. Rename x-axis legend with Age (in years) and y-axis legend with skin (in mm).

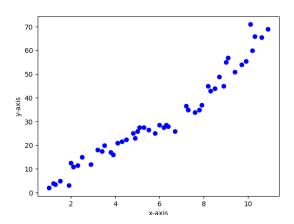


Figure 5 Scatter plot: Age (in years) vs. test (in mm U/mL)

- 1. Infer how the attribute 1 is correlated to attribute 2 based upon spread of the data points
- 2. Inference based on density of points
- 3. Inference 3(You may add or delete the number of inferences)

 Note: The scatter plot above is for illustration purpose. Replace it with the scatter plot obtained by you. Rename x-axis legend with Age (in years) and y-axis legend with test (in mm U/mL).

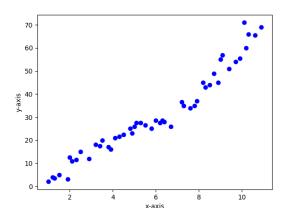


Figure 6 Scatter plot: Age (in years) vs. BMI (in kg/m²)



Inferences:

- 1. Infer how the attribute 1 is correlated to attribute 2 based upon spread of the data points
- 2. Inference based on density of points
- 3. Inference 3(You may add or delete the number of inferences)

 Note: The scatter plot above is for illustration purpose. Replace it with the scatter plot obtained by you. Rename x-axis legend with Age (in years) and y-axis legend with BMI (in kg/m²).

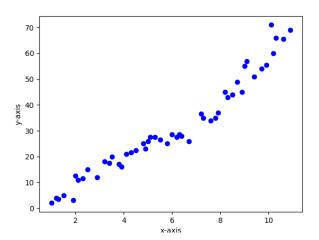


Figure 7 Scatter plot: Age (in years) vs. pedi

- 1. Infer how the attribute 1 is correlated to attribute 2 based upon spread of the data points
- 2. Inference based on density of points
- 3. Inference 3(You may add or delete the number of inferences)

 Note: The scatter plot above is for illustration purpose. Replace it with the scatter plot obtained by you. Rename x-axis legend with Age (in years) and y-axis legend with pedi.



b.

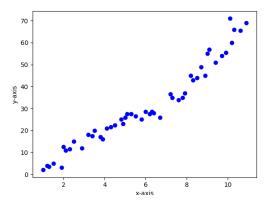


Figure 8 Scatter plot: BMI (in kg/m²) vs. pregs

Inferences:

- 1. Infer how the attribute 1 is correlated to attribute 2 based upon spread of the data points
- 2. Inference based on density of points
- 3. Inference 3(You may add or delete the number of inferences)

 Note: The scatter plot above is for illustration purpose. Replace it with the scatter plot obtained by you. Rename x-axis legend with BMI (in kg/m²) and y-axis legend with pregs.

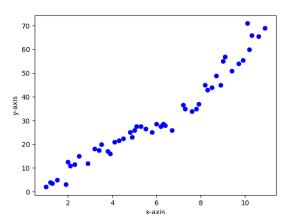


Figure 9 Scatter plot: BMI (in kg/m²) vs. plas

- 1. Infer how the attribute 1 is correlated to attribute 2 based upon spread of the data points
- 2. Inference based on density of points
- 3. Inference 3(You may add or delete the number of inferences)



Note: The scatter plot above is for illustration purpose. Replace it with the scatter plot obtained by you. Rename x-axis legend with BMI (in kg/m^2) and y-axis legend with plas.

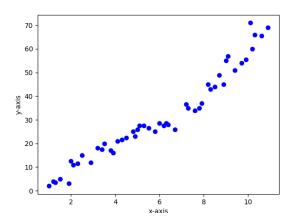


Figure 10 Scatter plot: BMI (in kg/m²) vs. pres (in mm Hg)

Inferences:

- 1. Infer how the attribute 1 is correlated to attribute 2 based upon spread of the data points
- 2. Inference based on density of points
- 3. Inference 3(You may add or delete the number of inferences)

 Note: The scatter plot above is for illustration purpose. Replace it with the scatter plot obtained by you. Rename x-axis legend with BMI (in kg/m²) and y-axis legend with pres (in mm Hg).

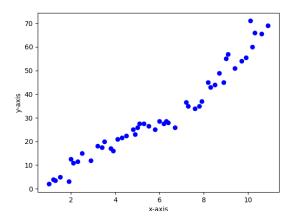


Figure 11 Scatter plot: BMI (in kg/m²) vs. skin (in mm)

Inferences:

1. Infer how the attribute 1 is correlated to attribute 2 based upon spread of the data points



- 2. Inference based on density of points
- 3. Inference 3(You may add or delete the number of inferences)

 Note: The scatter plot above is for illustration purpose. Replace it with the scatter plot obtained by you. Rename x-axis legend with BMI (in kg/m²) and y-axis legend with skin (in mm).

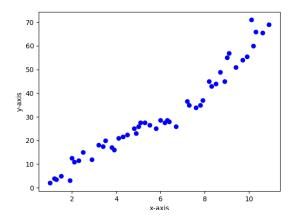


Figure 12 Scatter plot: BMI (in kg/m²) vs. test (in mm U/mL)

- 1. Infer how the attribute 1 is correlated to attribute 2 based upon spread of the data points
- 2. Inference based on density of points
- 3. Inference 3(You may add or delete the number of inferences)

 Note: The scatter plot above is for illustration purpose. Replace it with the scatter plot obtained by you. Rename x-axis legend with BMI (in kg/m²) and y-axis legend with x2.

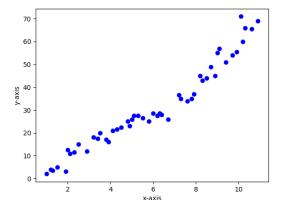


Figure 13 Scatter plot: BMI (in kg/m²) vs. pedi



Inferences:

- 1. Infer how the attribute 1 is correlated to attribute 2 based upon spread of the data points
- 2. Inference based on density of points
- 3. Inference 3(You may add or delete the number of inferences)

 Note: The scatter plot above is for illustration purpose. Replace it with the scatter plot obtained by you. Rename x-axis legend with BMI (in kg/m²) and y-axis legend with pedi.

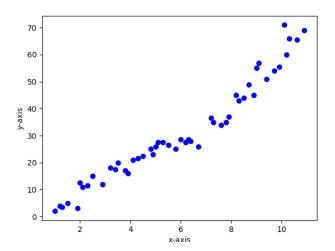


Figure 14 Scatter plot: BMI (in kg/m²) vs. Age (in years)

- 1. Infer how the attribute 1 is correlated to attribute 2 based upon spread of the data points
- 2. Inference based on density of points
- 3. Inference 3(You may add or delete the number of inferences)

 Note: The scatter plot above is for illustration purpose. Replace it with the scatter plot obtained by you. Rename x-axis legend with BMI (in kg/m²) and y-axis legend with Age (in years).



3 a.

Table 3 Correlation coefficient value computed between age and all other attributes

S. No.	Attributes	Correlation Coefficient Value
1	pregs	
2	plas	
3	pres (in mm Hg)	
4	skin (in mm)	
5	test (in mu U/mL)	
6	BMI (in kg/m²)	
7	pedi	
8	Age (in years)	

Inferences:

- 1. From the magnitude of correlation coefficient value, comment on the degree of correlation between age and each of the attribute.
- 2. From the sign of correlation coefficient value, comment whether with increase or decrease in age each of the attributes will increase or decrease.
- 3. Relate and comment on the value of correlation coefficient with corresponding scatter plot.
- 4. Inference 4(You may add or delete the number of inferences)

b.

Table 4 Correlation coefficient value computed between BMI and all other attributes

S. No.	Attributes	Correlation Coefficient Value
1	pregs	
2	plas	
3	pres (in mm Hg)	
4	skin (in mm)	
5	test (in mu U/mL)	
6	BMI (in kg/m ²)	
7	pedi	
8	Age (in years)	



Inferences:

- 1. From the magnitude of correlation coefficient value, comment on the degree of correlation between age and each of the attribute.
- 2. From the sign of correlation coefficient value, comment whether with increase or decrease in age each of the attributes will increase or decrease.
- 3. Relate and comment on the value of correlation coefficient with corresponding scatter plot.
- 4. Inference 4(You may add or delete the number of inferences)

4 a.

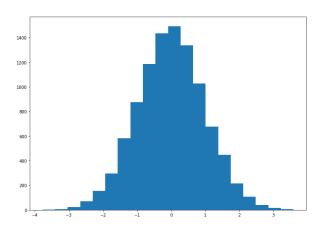


Figure 15 Histogram depiction of attribute pregs

- 1. Infer the frequency of each bin referring to its height.
- 2. From the histogram, infer in which of the bins mode of the attribute skin lies.
- 3. Inference 3(You may add or delete the number of inferences)

 Note: The histogram plot above is for illustration purpose. Replace it with the histogram plot obtained by you. Rename x-axis legend and y-axis legends with appropriate attribute names with units.



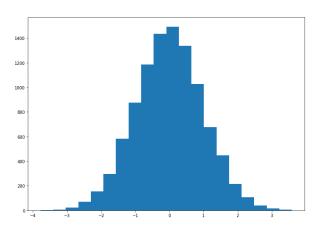


Figure 16 Histogram depiction of attribute skin

Inferences:

- 1. Infer the frequency of each bin referring to its height.
- 2. From the histogram, infer in which of the bins mode of the attribute skin lies.
- 3. Inference 3(You may add or delete the number of inferences)

Note: The histogram plot above is for illustration purpose. Replace it with the histogram plot obtained by you. Rename x-axis legend and y-axis legends with appropriate attribute names with units.

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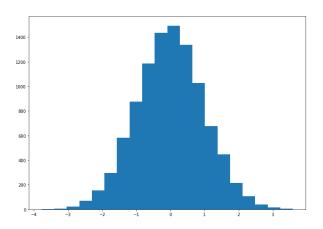


Figure 17 Histogram depiction of attribute pregs for class 0



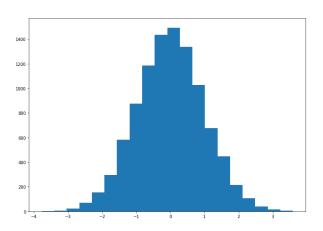


Figure 18 Histogram depiction of attribute pregs for class 1

Inferences:

- 1. From the histogram, infer in which of the bins mode of the attribute pregs lies for class 0 and 1.
- 2. Compare and contrast the frequency referring to the height of each bin for class 0 and 1
- 3. Inference 3(You may add or delete the number of inferences)

 Note: The histogram plot above is for illustration purpose. Replace it with the histogram plot obtained by you. Rename x-axis legend and y-axis legends with appropriate attribute names with units.

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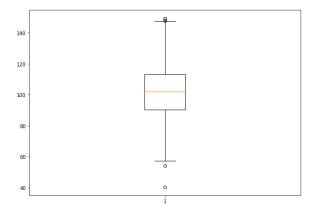


Figure 19 Boxplot for attribute pregs

Inferences:

1. Inference on outliers and their values.



- 2. Infer the Inter quartile range.
- 3. Infer the variability of attribute.
- 4. Infer the skewness of the data.
- 5. Relate with the values from Q1. for this attribute.
- 6. Inference 6(You may add or delete the number of inferences)

Note: The boxplot above is for illustration purpose. Replace it with the boxplot obtained by you. Rename x-axis legend and y-axis legends with appropriate attribute names with units.

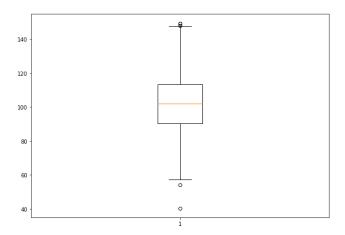


Figure 20 Boxplot for attribute plas

Inferences:

- 1. Inference on outliers and their values.
- 2. Infer the Inter quartile range.
- 3. Infer the variability of attribute.
- 4. Infer the skewness of the data.
- 5. Relate with the values from Q1. for this attribute.
- 6. Inference 6(You may add or delete the number of inferences)

Note: The boxplot above is for illustration purpose. Replace it with the boxplot obtained by you. Rename x-axis legend and y-axis legends with appropriate attribute names with units.



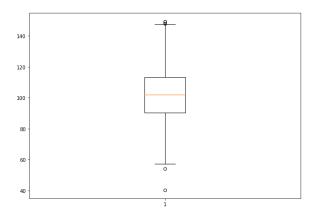


Figure 21 Boxplot for attribute pres(in mm Hg)

Inferences:

- 1. Inference on outliers and their values.
- 2. Infer the Inter quartile range.
- 3. Infer the variability of attribute.
- 4. Infer the skewness of the data.
- 5. Relate with the values from Q1. for this attribute.
- 6. Inference 6(You may add or delete the number of inferences)

 Note: The boxplot above is for illustration purpose. Replace it with the boxplot obtained by you.

Rename x-axis legend and y-axis legends with appropriate attribute names with units.

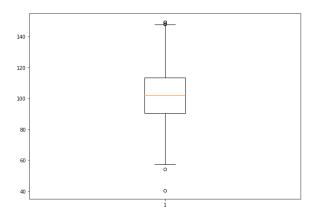


Figure 22 Boxplot for attribute skin(in mm)

- 1. Inference on outliers and their values.
- 2. Infer the Inter quartile range.



- 3. Infer the variability of attribute.
- 4. Infer the skewness of the data.
- 5. Relate with the values from Q1. for this attribute.
- 6. Inference 6(You may add or delete the number of inferences)

Note: The boxplot above is for illustration purpose. Replace it with the boxplot obtained by you. Rename x-axis legend and y-axis legends with appropriate attribute names with units.

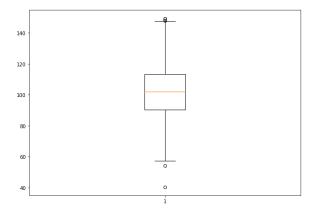


Figure 23 Boxplot for attribute test (mu U/mL)

Inferences:

- 1. Inference on outliers and their values.
- 2. Infer the Inter quartile range.
- 3. Infer the variability of attribute.
- 4. Infer the skewness of the data.
- 5. Relate with the values from Q1. for this attribute.
- 6. Inference 6(You may add or delete the number of inferences)

Note: The boxplot above is for illustration purpose. Replace it with the boxplot obtained by you. Rename x-axis legend and y-axis legends with appropriate attribute names with units.



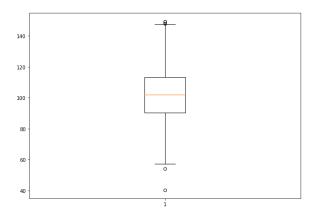


Figure 24 Boxplot for attribute BMI (in kg/m²)

Inferences:

- 1. Inference on outliers and their values.
- 2. Infer the Inter quartile range.
- 3. Infer the variability of attribute.
- 4. Infer the skewness of the data.
- 5. Relate with the values from Q1. for this attribute.
- 6. Inference 6(You may add or delete the number of inferences)

 Note: The boxplot above is for illustration purpose. Replace it with the boxplot obtained by you.

Rename x-axis legend and y-axis legends with appropriate attribute names with units.

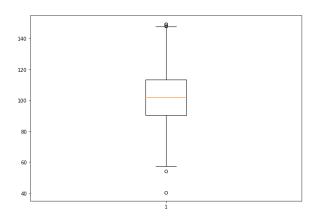


Figure 25 Boxplot for attribute pedi

- 1. Inference on outliers and their values.
- 2. Infer the Inter quartile range.



- 3. Infer the variability of attribute.
- 4. Infer the skewness of the data.
- 5. Relate with the values from Q1. for this attribute.
- 6. Inference 6(You may add or delete the number of inferences)

Note: The boxplot above is for illustration purpose. Replace it with the boxplot obtained by you. Rename x-axis legend and y-axis legends with appropriate attribute names with units.

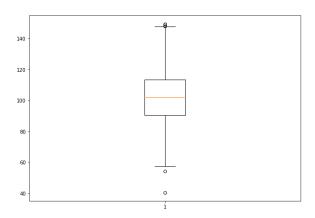


Figure 26 Boxplot for attribute Age (in years)

Inferences:

- 1. Inference on outliers and their values.
- 2. Infer the Inter quartile range.
- 3. Infer the variability of attribute.
- 4. Infer the skewness of the data.
- 5. Inference 5(You may add or delete the number of inferences)

Note: The boxplot above is for illustration purpose. Replace it with the boxplot obtained by you. Rename x-axis legend and y-axis legends with appropriate attribute names with units

Guidelines for Report (Delete this while you submit the report):

- The plot/graph/figure/table should be centre justified with sequence number and caption.
- Inferences should be written as a numbered list.
- Use specific and technical terms to write inferences.
- Values observed/calculated should be rounded off to three decimal places.
- The quantities which have units should be written with units.