

Information Technology CS编程辅导

FIT1006 Business mation Analysis

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Lecture 3
Graphical Presentation of (Quantitative) Data

Topics covered: 代写代做 CS编程辅导

- Types of Data
- Tally & Freque
- Stem and Leaf Plethat: cstutorcs
- Histogram
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- Visualisation of Data.
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- ❖ You can go through pie charts and column graphs in Excel on your In 249389476
- We will cover rhuttivariate data and time series later in the course.



Motivating problem... CS编程辅导

A grocery store war analyse the amount spent by their customers. They also be used by the customers. They have been also be used by the sales history of 10 randomly sampled customers.

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■ Oh, you can't use a kakulatour renter that Help

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We'll work on this in Lectures 4 & 5 also...

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Introduction 程序代写代做 CS编程辅导

- methods of analid: a
- The first step in analysing quantitative data should be to 'see' the data the cross of the underlying pattern, or distribution not hthe detaExam Help
- It is the distribution of the data which determines which statistical measures are appropriate. QQ: 749389476



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Question 1



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A. Discrete

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B. Continuous

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C. Qualitative

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D. Categorical

E. Something else!



https://flux.qa程序经看它的ES编辑像V)

Question 2

Students comple very ranking their satisfaction as high, medium or low. What type of data is that?

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A. Discrete Assignment Project Exam Help

B. Continuous Email: tutores@163.com

C. Qualitative Q: 749389476

D. Categorical https://tutorcs.com

E. Something else!

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Question 3

Students complete the very ranking their satisfaction on a scale 0, 1, 2, ..., To. What type of data is that?

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A. Discrete Assignment Project Exam Help

B. Continuous Email: tutorcs@163.com

C. Qualitative QQ: 749389476

D. Categorical https://tutorcs.com

E. Something else!

Types of Dat程序代写代做 CS编程辅导

- Quantitative
 - Discrete



ជ្ជ, 2, 3....

- <mark>..</mark>, 4.256, 3.999, 11.2, ...
- We can calculate summary numerical statistics

Ordinal

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- Qualitative Assignment Properties with the Properties of the Prope
- Qualitative eg. Lecturer, Senior Lecturer, Professor
- We can calculate statistics based on rank
- Nominal

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- Categorical eg, red, green, silver, ...

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 We can calculate statistics based on counts

Motivating Pfoblem代做 CS编程辅导

- Data is from the Dunnhumby's Shopper Challenge' which end the amount spent and date of the transaction per permarket in the US over one year.
- See: http://www.kaggle.com/c/dunnhumbychallenge Assignment Project Exam Help
- I have resampled 'spend' from the original data, using approx 20% of the original observations.
- We will analyse data for 10 groups of shoppers.

Sample Data程序代写代做 CS编程辅导

■ The data below ::



©ustomer #208

53, 16, 66, 10, 77, 25, 17, 44, 37, 25, 24, 62, 3, 50, 16, 18, 5, 31, 29

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• What can you say about that customer?

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Determining 程序的写的整个数据等

- Some guidelines:
 - Class interval lie between possible observations.
 - Express cut-offs at one more decimal point accuracy than data. Assignment Project Exam Help
 - For n data, √ncintervals is usually a good starting point.
 - Sturge's formula: $classes_{476} + 3.3log_{10}n$
 - Choose 'intuitive' intervals: 1, 2, 5, 10, 20, 50, 100 etc. https://tutorcs.com
 - It is more usual to use equal sized intervals.

Sample Data程序的多数的程序

53, 16, 66, 10, 7, 44, 37, 25, 24, 62, 3, 50, 16, 18, 5, 31, 29

> 19 observations WeChat: cstutorcs

Assignment roject Email: Or using Sturge's

Largest = 77 Email: tutorcs \$\&\frac{1}{2} \frac{1}{2} \fr

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$$= \frac{77 - 3}{5.2} = 14.2$$

✓ Intervals (ideally) = 5

Sample Data^程/Stem and 作時期ot

```
, 44, 37, 25, 24, 62, 3, 50,
53, 16, 66, 10, 77
16, 18, 5, 31, 29
               stem
                      Chate estutores
                 1Assignmen6Proj&t Exam Help
        (4)
                 2Email: thtores@163.com
                 5https0/torcs.com
```

Sample Data 生 Stem and 作 plot

53, 16, 66, 10, Stem and Leaf Plot of Variable: RSPEND, N = 1917, 44, 37, 25, 🔠 Minimum 3.000 3, 50, 16, 18, 5, 31, 29 Lower Hinge 16.500 Median 25,000 WeChat: cstutorcs Hinge Maximum 77.000 Output from SYSTAT TOLL Exam Hel on the RHS Email: tutorcs@163. QQ: 74938947 ■ What can youh any. //tutorcs.com 26 about that customer?

Sample Data程序代写公路在编号

53, 16, 66, 10, 17, 44, 37, 25, 0.3 3, 50, 16, 18, 5, 31, 29 cstugorcs Proportion per Bar Assignment Project Exam Help ■ Output from SYSTAT 2 Email: tutorcs@163.com QQ: 749389476 0.0 20 30 40 50 60 70 80 **RSPEND** https://tutorcs.com 0 1 2 8 4 5 7



Sample Data 生 Dotplot CS编程辅导

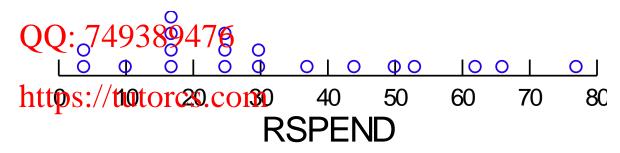
53, 16, 66, 10, 17, 44, 37, 25,



3, 50, 16, 18, 5, 31, 29 chat: cstutorcs

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Output from SYSTAT Email: tutorcs@163.com





Motivating P指身性關代做 CS编程辅导

Working in group will draw a stem and leaf pit the ne of the 10 customers. Your customer librated on the first letter of your last name indicated in the worksheet.

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Describe the shape of the distribution of data.

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Motivating Pfoblem代数等条件



Describe the different types of customers...



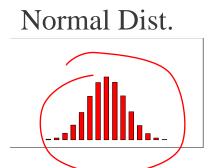
Visualising Data 化写代做 CS编程辅导

- Why do we want to the data
 - Visual inspection factories of data.
 - Visual inspection enables autes iption of the distribution of the data to be made.

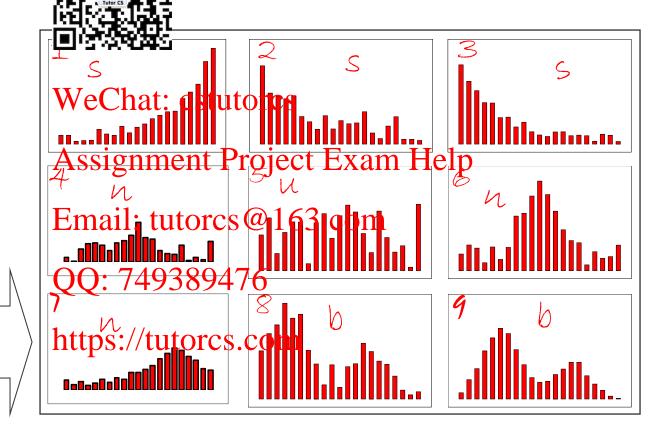
 Assignment Project Exam Help
 - The distribution of data determines which statistics are appropriate. Email: tutorcs@163.com
 - To make company on symbol data from different groups.

Comparing 程序概算概模的编程辅导

Histograms distributions



Some skewed, bimodal, and uniform distributions





Key Ideas

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- frequency plot and (iii
- You should be able *** *** uct a tally, histogram, cumulative leaf plot of a data set.
- You should be able to calculate an appropriate class interval, determine cut-offs and mid-points torcs
- Get into the habit of always visualising a data set before you undertake any analysis.

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Reading/Questions (Selvanathan)

- Reading: Graphical ve Methods
 - 7th Ed. Section 4.1
- Questions: Graphical Descriptive Methods
 - WeChat: cstutorcs
 7th Ed. 2.4, 2.5, 2.9, 4.4, 4.5, 4.6, 4.10.
- Tutorial 2 Questions Assignment Project Exam Help

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