STT200 – Lecture 1, Section 02,04. Recitation 1 (September 4th. 2012)

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About the recitation courses

□Sign attendance sheet. >=90% of all 15 recitations, get 5 extra credits. <90%, i.e., miss two recitations: 0 pt;

Two or three quizzes to recover 5pt;

Exam oriented recitations: cover problems similar to that in the exams.

□Join the discussion: be positively involved.

A brief review

□W's: Who, What, When, Where, When, Why, and How; population

□Variable types: Quantitative vs Categorical, Identifier.

Page 16 of textbook, problems for this recitation: 1, 2, 4, 6, 14, 16, 18, 20, 22, 24, 26

Quantitative or Categorical?

□#1: Responses: "Democrat", "Republican", "Independent", "Other" and "No response".

□#2: Responses: "Better", "Worse", "No Change", "Don't know" and "No response".

□#4. Increase in heart rate of patients.

Who, What, and population?

 \square #6: Internet source: crab data. (<u>click</u> for description)

	\mathbf{sp}	\mathbf{sex}	index	FL	RW	CL	CW	BD
1	В	М	1	8.1	6.7	16.1	19.0	7.0
2	в	Μ	2	8.8	7.7	18.1	20.8	7.4
3	в	М	3	9.2	7.8	19.0	22.4	7.7
4	в	М	4	9.6	7.9	20.1	23.1	8.2
5	в	М	5	9.8	8.0	20.3	23.0	8.2
6	в	М	6	10.8	9.0	23.0	26.5	9.8
7	в	М	7	11.1	9.9	23.8	27.1	9.8
8	в	М	8	11.6	9.1	24.5	28.4	10.4
9	в	М	9	11.8	9.6	24.2	27.8	9.7
10	В	М	10	11.8	10.5	25.2	29.3	10.3
11	В	М	11	12.2	10.8	27.3	31.6	10.9
12	в	М	12	12.3	11.0	26.8	31.5	11.4
13	в	М	13	12.6	10.0	27.7	31.7	11.4
14	в	М	14	12.8	10.2	27.2	31.8	10.9
15	в	М	15	12.8	10.9	27.4	31.5	11.0
16	в	М	16	12.9	11.0	26.8	30.9	11.4
198	0	F	48	21.9	17 2	42.6	47 4	10 5
	- -	_						
199	0	F	49	22.5	17.2	43.0	48.7	19.8
200	0	F	50	23.1	20.2	46.2	52.5	21.1

Identify who, what, and population

For each variable,

Verify type

#14: The State Education Department require local school districts to keep records of all students:

Dage

Drace

□days absent

Current grade level

□standardized test scores

□Any disabilities or special educational needs

- #16: A study reports pulling force of firefighters
- □Pulling force in newtons
- □Weight of firefighters
- □Sex of firefighter

#18: A study reports plants in southern England are flowering earlier.

□First flowering dates for 385 species over 47 years

#20: Data base of customers and sales information

□Name

□ID number

□Region of country (1=East, 2=South, 3=Midwest, 4=West)

Date of last purchase

Amount of purchase

□Item purchased

- #22: Data about vienyards
- □Size (acres)
- □Number of years in existence
- **□**State
- □Varieties of grapes grown
- □Average case price
- □Gross sales
- □Percent profit

- #26: Fuel economy of automobiles
- Manufacturer
- □Vehicle type
- **Weight**
- □Horse-power
- □Gas mileage