UTAustinX: UT.7.20x Foundations of Data Analysis - Part 2

Week 6: Correlation and Regression > Lab > Draw Conclusions

Bookmark

Reflect on the Question ✓   Analyze the Data ✓   Draw Conclusions

PRIMARY RESEARCH QUESTIONS

1. For students in the Basic Sciences program, of the four measures of Quality of Life (Physical Health, Psychological, Social Relationships, and Environment), which has the greatest impact on Med School Quality of Life?
2. What is the overall proportion of variance accounted for by all four scales?

(7/7 points)

Write Your Conclusion

Answer the question and support your answer with statistics:

Testing (One Group
Means)

▸ Week 3: Hypothesis
Testing (Two Group
Means)

▸ Week 4: Hypothesis
Testing (Categorical
Data)

▸ Week 5: Hypothesis
Testing (More Than
Two Group Means)

▾ **Week 6: Correlation
and Regression**

Readings
Reading Check due May 03,
2016 at 17:00 UTC   ✎

Lecture Videos
Comprehension Check due
May 03, 2016 at 17:00 UTC   ✎

R Tutorial Videos

Pre-Lab

Our primary research question investigated the predictive impact of several Quality of Life items (Physical Health, Psychological, Social Relationships, and Environment) on the outcome of Med School Quality of Life score for Basic Sciences enrolled students. The model showed a

[Significant ▾] ✔ **Answer:** Significant overall effect ($F_{(4, 454)}$ = [50.91 ▾] ✔

Answer: 50.91 , $p < 0.05$), The four predictor variables accounted for [30.97 ▾] ✔

Answer: 30.97 percent of the variance in the outcome of Med School Quality of Life. The best predictor of Med School Quality of Life was the Psychological QoL scale ($t(454)$ = [4.452 ▾] ✔

Answer: 4.452 , $p < 0.05$). As Psychological QoL scale increases one unit, Med School Quality of Life increased by [0.0265 ▾] ✔ **Answer:** 0.0265 (Standardized beta = [0.2723 ▾] ✔

Answer: 0.2723 Although significant, and the best predictor in the model, Psychological QoL could only uniquely account for [3.0% ▾] ✔ **Answer:** 3.0% of the variance in the outcome. .

You have used 1 of 1 submissions

Pre-Lab due May 03, 2016 at
17:00 UTC

Lab
Lab due May 03, 2016 at 17:00
UTC

Problem Set
Problem Set due May 03, 2016
at 17:00 UTC

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