Title of research study: Databases for Many Majors: Customizable Visualizations to Improve STEM Learning

IRB protocol number: IRB-FY2019-82

Investigator: Dr. Don Goelman

Why am I being invited to take part in this research study?
We invite you to take part in a research study because you are enrolled in this database course this term.

What should I know about this research study?
- This research study will be explained to you.
- Whether or not you take part is up to you.
- You can choose not to take part.
- You can agree to take part and later change your mind.
- Your decision will not be held against you.
- You can ask all the questions you want before you decide.

Whom can I talk to?
If you have questions, concerns, or complaints, or think the research has hurt you, talk to Dr. Goelman, the Principal Investigator, at (610) 519-7346 or don.goelman@villanova.edu.

This research has been reviewed and approved by an Institutional Review Board (“IRB”). You may talk to the IRB office at (610) 519-4220 or irb@villanova.edu if:
- Your questions, concerns, or complaints are not being answered by the research team.
- You cannot reach the research team.
- You want to talk to someone besides the research team.
- You have questions about your rights as a research subject.
- You want to get information or provide input about this research.

Why is this research being done?
This research is being done in order to see how successful certain educational software, developed by the Principal Investigator, is for helping students learn database concepts. The software consists of three computer visualizations.

How long will the research last?
I expect that you will be in this research study for the current term.

How many people will be studied?
I expect about 20 people here will be in this research study this term, out of 70 people in the entire study nationally.
What happens if I say yes, I want to be in this research?
Whether or not you are in the research study, as a student in this course, you must fulfill certain requirements, such as labs, examinations and reports. They are components of your course grade. Some of those assessments see how well you understand concepts that the visualizations might help you with, or they may ask your opinion on the visualizations.

If you agree to be in this research, then you’re allowing me to count you when I present statistics on students’ performance and attitudes. This will be part of a paper or papers that I hope to write. I won’t be using your names at all, of course. And there won’t be any way for anyone (besides me) to attach your name to the statistic that you generate. When the course ends, so will your participation in the research.

What happens if I do not want to be in this research?
Participation in research is completely voluntary. You can decide to participate or not to participate.

What happens if I say yes, but I change my mind later?
You can leave the research at any time it will not be held against you.
Any data you generated before the point of your withdrawal will be discarded.

Is there any way being in this study could be bad for me?
I don’t foresee any risk of participating in this study (physical, psychological, privacy, legal, social or economic), but unforeseen ones are possible in any research.

Will being in this study help me in any way?

I cannot promise any benefits to you from your taking part in this research. However, there is a possible benefit to others: if the visualizations can truly help learning, then the publicized results could lead to future database learners’ improved understanding.

What happens to the information collected for the research?
Efforts will be made to limit the use and disclosure of your personal information, including research study records, to people who have a need to review this information. I cannot promise complete secrecy. Organizations that may inspect and copy your information include the IRB and other representatives of this organization.

Can I be removed from the research without my OK?
No.
Consent for Participation in a Human Research Study

Signature Block for Capable Adult
Your signature documents your permission to take part in this research. You affirm you are 18 or older.

______________________________  __________________________
Signature of subject                     Date

______________________________  __________________________
Printed name of subject                  Date

______________________________  __________________________
Signature of person obtaining consent    Date

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Printed name of person obtaining consent Date

Document Revision Date: December 20, 2018

IRB Approval Date [To be completed by ORA]