Checkpoints: Formative Self-Assessment for Customizable Database Visualizations

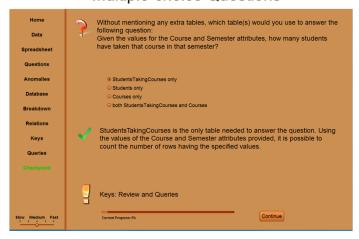


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Introduction to Databases



Multiple-choice Questions



"Checkpoint" Terminology

Based on database checkpoints, which log information about the state of the database.

Checkpoint questions give students the opportunity to

Checkpoint questions give students the opportunity to reflect on the state of their learning.



Databases for Many Majors:
Customizable Visualizations to Improve
STEM Learning

DUE-0941584/DUE-0941401

- 2 Animations: IntroDB & QueryDB
- Customizations: CMB & GIS
- IEEE Trans on Education paper

DUE-1431848/DUE-1431661 (September 2014 – August 2017)

- Self-assessment "Checkpoints"
- Customization Tool
- STEM Customizations
- Conceptual Design Animation (DesignDB)

Self-assessment Checkpoints



Multiple choice and true/false



Visual and textual feedback



Animation Topic (Link)

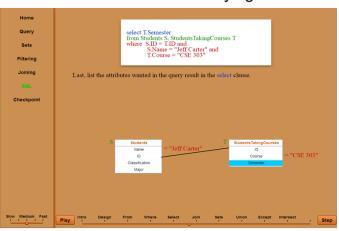


Progress bar

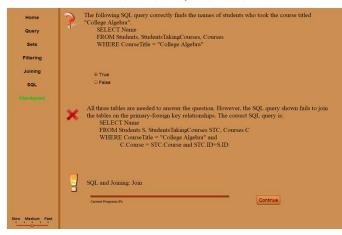
Don Goelman don.goelman@villanova.edu



Introduction to Querying



True/False Questions



Class Survey – Full Evaluation Pending

"The checkpoints in the animations are an important learning component of the animations."

All students: Strongly Agree/Agree

http://databasesmanymajors.faculty.asu.edu