A New Tool for Guiding Faculty in Customizing Database Visualizations for Learners of Many Majors

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CreateDB: Visual Customization Tool
Assists customizer in designing the database instance for the animations: verifies primary and foreign keys, as well as update, delete, and insert anomalies.

CreateDB: Verify Primary and Foreign Keys

CreateDB: Verify Anomalies

Databases for Many Majors: Customizable Visualizations to Improve STEM Learning

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

DUE-1431848/DUE-1431661

- New Animation: DesignDB - Conceptual Design
- STEM Customizations: Ecology, Statistics, Forensics, Astronomy
- Self-assessment “Checkpoints”
- CreateDB: Customization Tool

CreateDB: Customization Tool

IntroDB: Introduction to Databases
Course is a foreign key in the StudentsTakingsCourses table, since it references the primary key Course in the Courses table.

QueryDB: Introduction to Querying
Last, list the attributes wanted in the query result in the select clause.

DesignDB: Conceptual Design
Select an ER component to see how it is mapped in the relational scheme below.