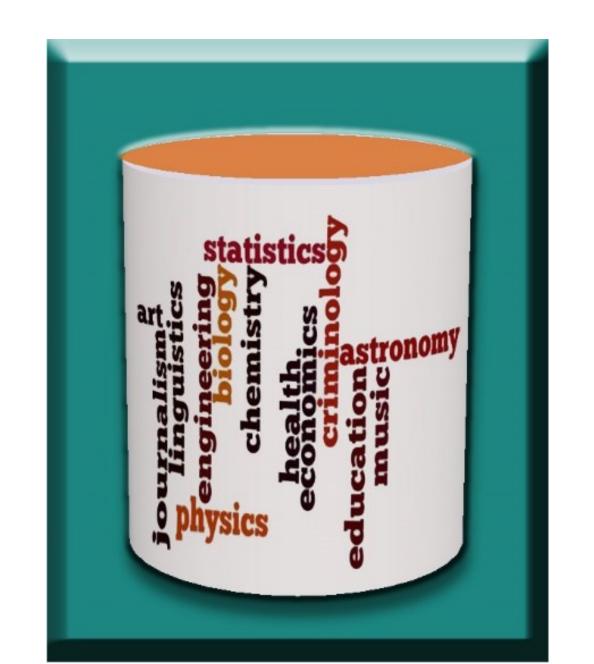


Databases for Many Majors: The Penultimate Year





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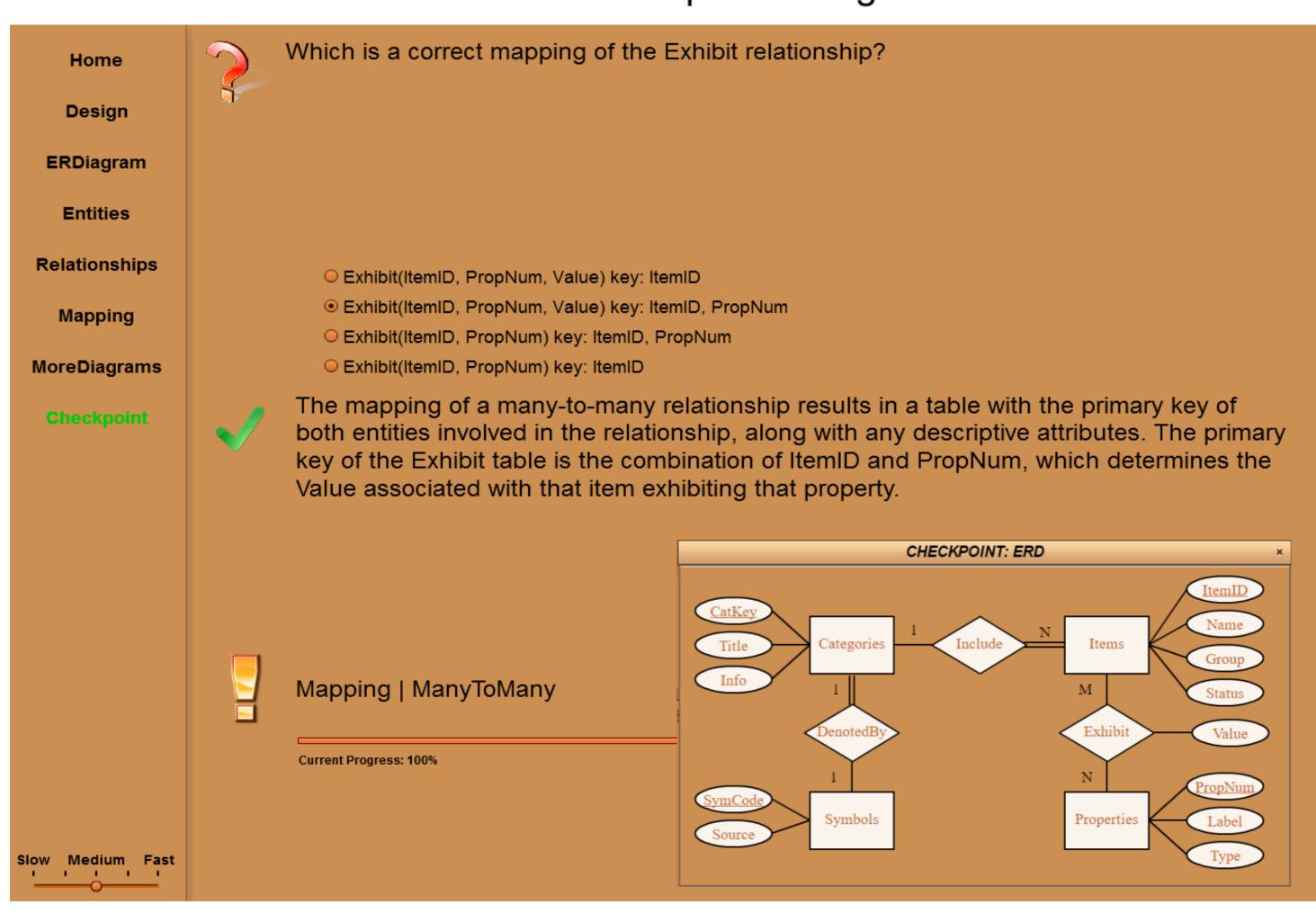


DesignDB Checkpoint

A generic conceptual design was developed for use in the 20 comprehensive checkpoint questions, making it easier to adopt the animations by reducing the customization effort.

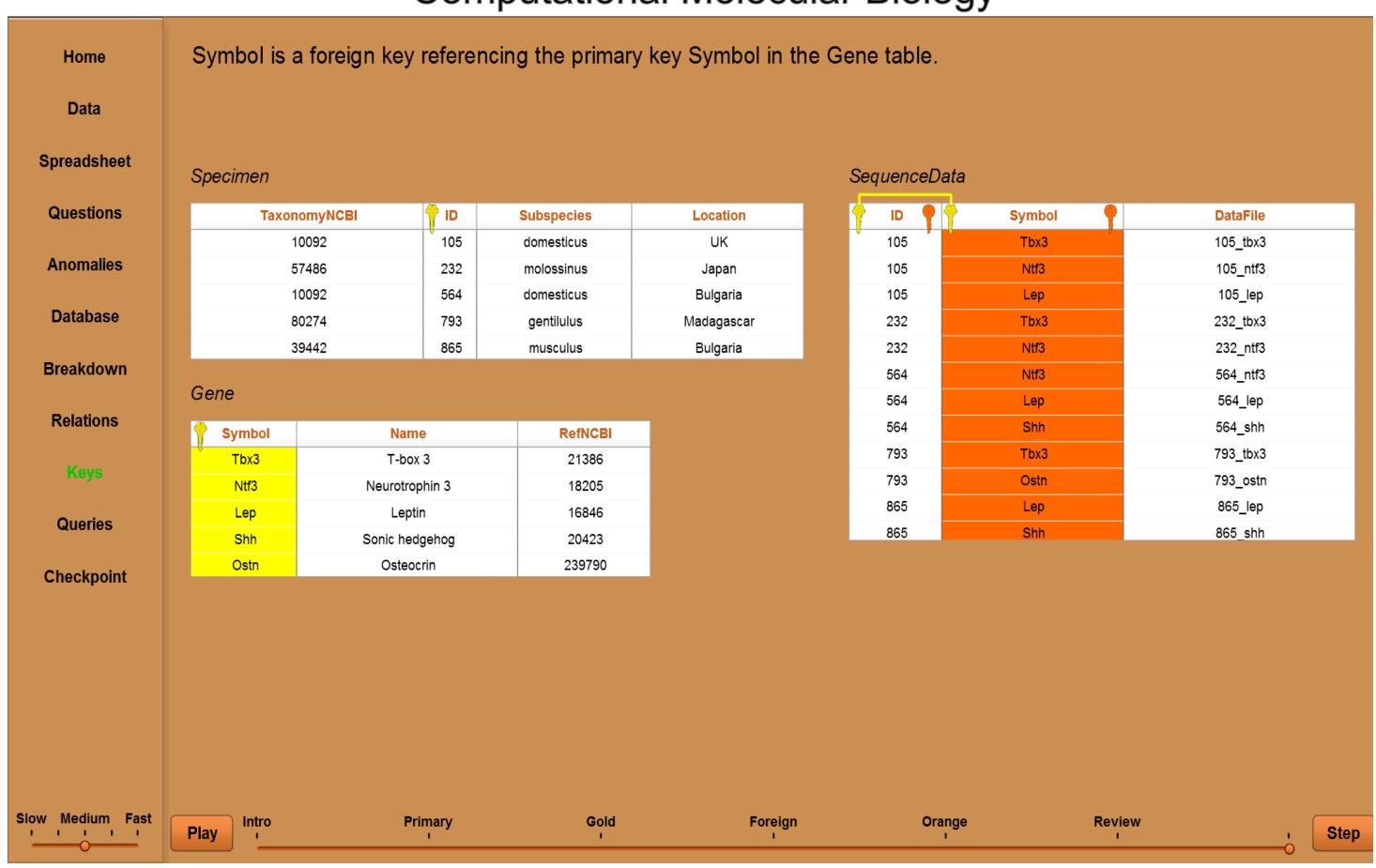
DesignDB: Checkpoint & ERD

Generic Conceptual Design



IntroDB: Introduction to Databases

Computational Molecular Biology



http://databasesmanymajors.faculty.asu.edu

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

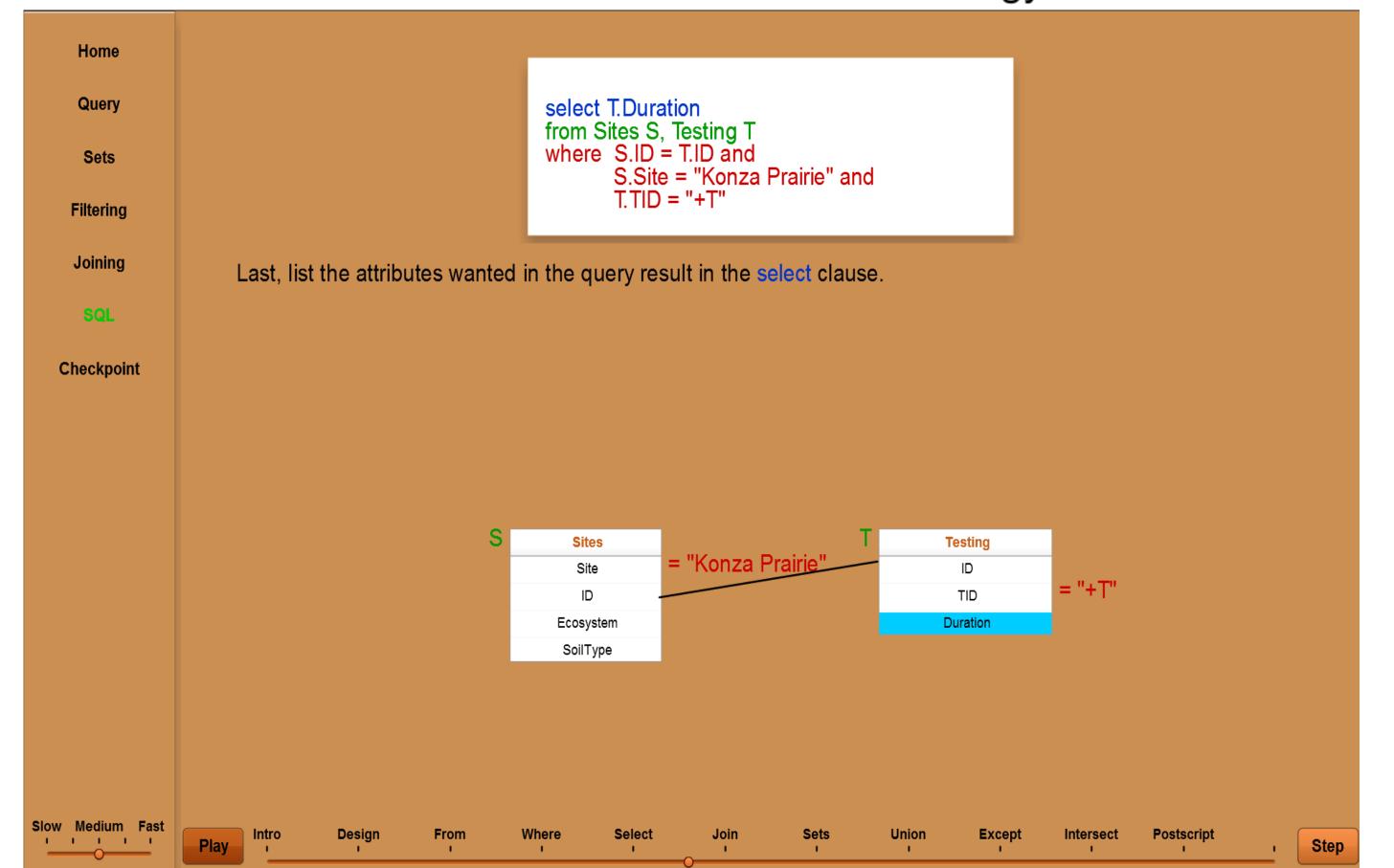


DUE-1431848/DUE-1431661

- STEM Customizations: Ecology, Statistics, Forensics, Astronomy
- Checkpoints: Formative Self-assessment
- New Animation: DesignDB Conceptual Design
- CreateDB: Customization Tool
- Ultimate Year: Dissemination and Open Source

QueryDB: Introduction to Querying

Environmental Science/Ecology

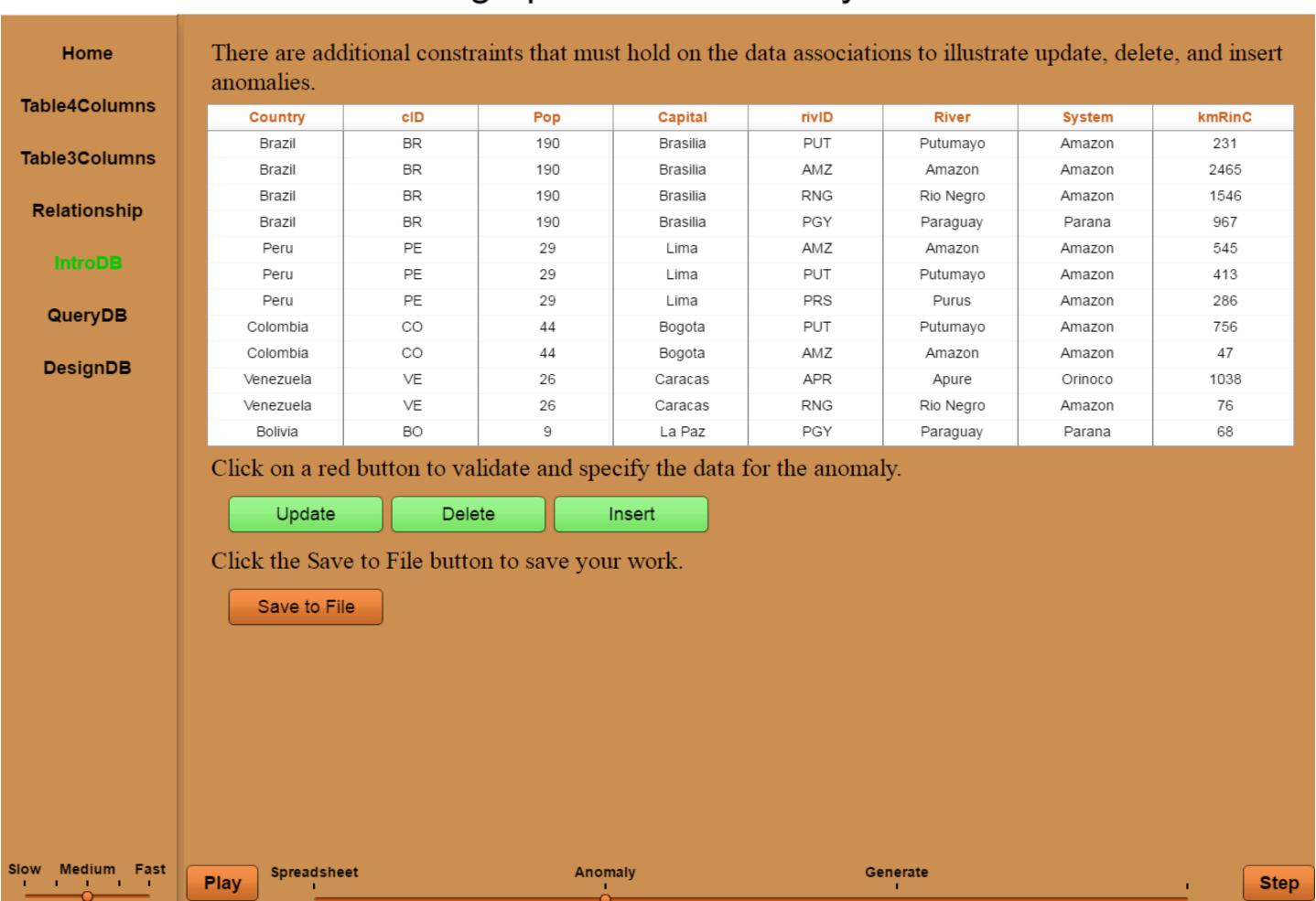


CreateDB: Visual Customization Tool

Assists customizer in designing the database instance for the animations; verifies primary & foreign keys and anomalies; generates XML files to assist with customizing: IntroDB, QueryDB, and DesignDB

CreateDB: Visual Customization Tool

Geographic Information Systems



DesignDB: Conceptual Design

Astronomy

