Checkpoints: Formative Self-Assessment for Customizable Database Visualizations

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Introduction to Databases

Course is a foreign key in the Student_Taking_Courses table, since it references the primary key, Course in the Courses table.

<table>
<thead>
<tr>
<th>Students</th>
<th>Courses</th>
<th>Student_Taking_Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Date</td>
<td>ID</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Course ID</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Semester</td>
</tr>
</tbody>
</table>

Introduction to Querying

select T.Semester
from Student_Taking_Courses T
where T.ID = SID
and T.Name = "DB-325" and
T.Credit = "CSE 316";

Checkpoints: Formative Self-Assessment for Customizable Database Visualizations

DUE-0941584/DUE-0941401

• 2 Animations: IntroDB & QueryDB
• Customizations: CMB & GIS
• IEEE Trans on Education paper (September 2014 – August 2017)

Self-assessment Checkpoints

Multiple choice and true/false

Visual and textual feedback

Animation Topic (Link)

Progress bar

“Checkpoint” Terminology

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

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

http://databasesmanymajors.faculty.asu.edu

Class Survey – Full Evaluation Pending

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

All students: Strongly Agree/Agree

DUE-1431848/DUE-1431661

• Self-assessment “Checkpoints”
• Customization Tool
• STEM Customizations
• Conceptual Design Animation (DesignDB)

Visual and textual feedback

Animation Topic (Link)

Progress bar

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

All students: Strongly Agree/Agree