



Constraints & Triggers

Triggers – Demo (Part 2)

Introduction video used SQL standard

- No DBMS implements exact standard
- Some deviate considerably
 - Postgres > SQLite >> MySQL**
- **Demo uses SQLite**
 - Row-level triggers, immediate activation
 - For Each Row implicit if not specified
 - No Old Table or New Table
 - No Referencing clause
 - Old and New predefined for Old Row and New Row
 - Trigger action: SQL statements in Begin-End block

Features covered in demo – in two parts

- **Before and After; Insert, Delete, and Update**
- **New and Old**
- **Conditions and actions**
- **Triggers enforcing constraints**
- **Trigger chaining**
- **Self-triggering, cycles**
- **Conflicts**
- **Nested trigger invocations**

Features covered in demo: **Part 2**

- Before and After; Insert, Delete, and Update
- New and Old
- Conditions and actions
- Triggers enforcing constraints
- Trigger chaining
- Self-triggering, cycles
- Conflicts
- Nested trigger invocations
- Also SQLite's row-level immediate activation (non-standard)

Tables: T1(A), T2(A), T3(A), T4(A)