Constraints & Triggers

Triggers – Demo (Part 2)

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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

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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)`

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