Advanced Design Patterns Part 2

CDC, Merge, Date Based

Robert C. Cain, MVP http://arcanecode.com @arcanecode





Change Data Capture

Lets SQL Server track which rows in source have changed

Pros

- Tracks changes to data
- Only read rows which have changed
- Easy to determine Create / Update / Delete actions

Cons

- Only works with SQL Server
- Requires setup work in database and tables before it can be used
- Must have ability to alter the source system

Merge

- Uses SQL Server MERGE statement
- Pros
 - Simple to implement
 - Very fast
- Cons
 - No transformations
 - No ability to track progress

Date Based

Uses date driven values to determine changes

Pros

- Easy to determine changes to rows
- Reduces number of rows that are read
- Can be combined with any of the other patterns

Cons

- Requires source system to have a reliable date field indicating changes
- Still requires logic to determine new rows vs updates