

Designing Views to Meet Business Requirements



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Overview



Motivation

Limitations

Types of views

Protecting views

Persistence

Updateable views



Motivation for Views

Encapsulate a query

Customize results

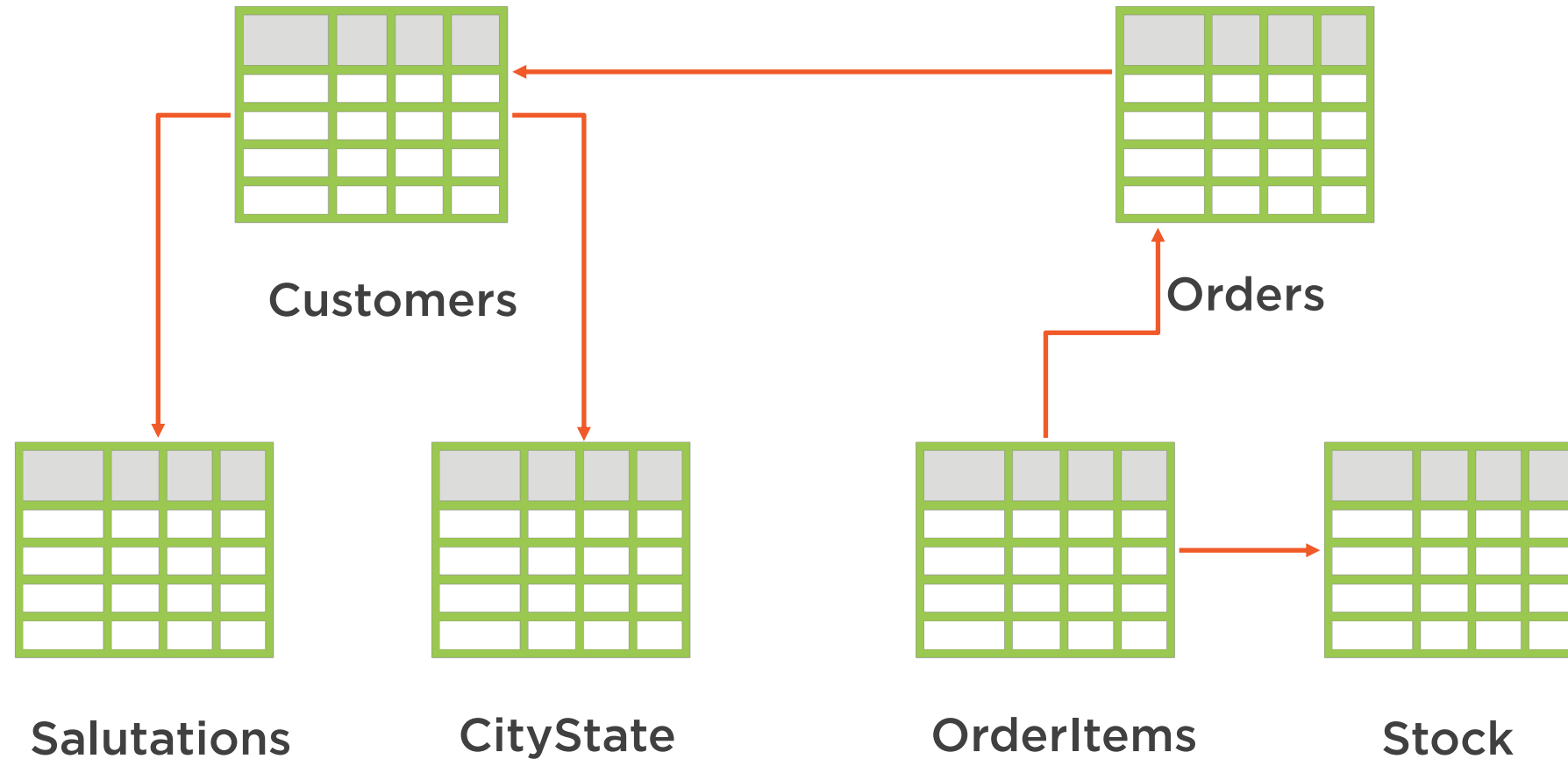
Security

Backward compatibility

Virtual tables



Bob's Shoes Order System Schema



Demo



Customer list



“In computer science, **information hiding** is the principle of segregation of the design decisions in a computer program that are most likely to change.

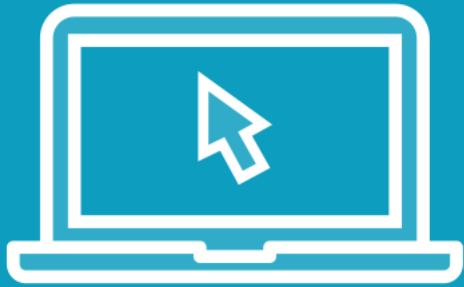
David Parnas, 1972



Houston, we have a
problem!



Demo



WITH SCHEMABINDING



WITH SCHEMABINDING

**Base tables
cannot be
changed**

**SELECT statement
must use two-part
names**

**All referenced
objects must be in
the same
database**



Updateable Views



Any modifications, including UPDATE, INSERT, and DELETE statements, must reference columns from only one base table



The columns being modified in the view must directly reference the underlying data in the table columns. The columns cannot be derived



The columns being modified are not affected by GROUP BY, HAVING, DISTINCT, PIVOT or UNPIVOT clauses



TOP or OFFSET clause is not used anywhere in the select statement of the view together with the WITH CHECK OPTION clause



Demo



Updateable views



Summary



Views as virtual tables

WITH SCHEMABINDING

Updateable views

WITH CHECK OPTION

