

Advanced software technologies for breakthrough applications



Objects, Tables and Performance

Stefan Wittmann, Sales Engineer

INTERSYSTEMS

Databases in a nutshell



Relational Model

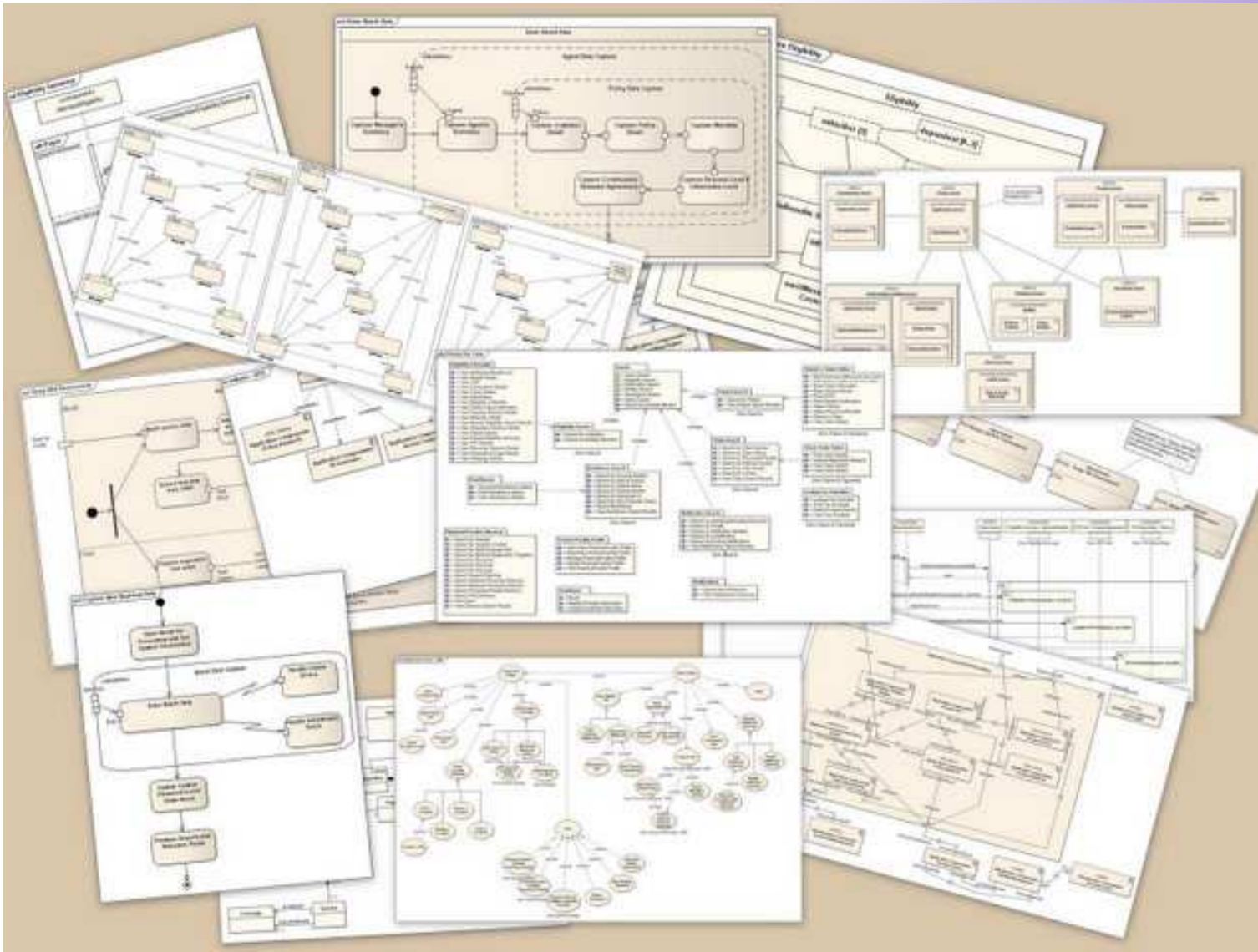
Activity Code	Activity Name
23	Patching
24	Overlay
25	Crack Sealing

Key = 24

Activity Code	Date	Route No.
24	01/12/01	I-95
24	02/08/01	I-66

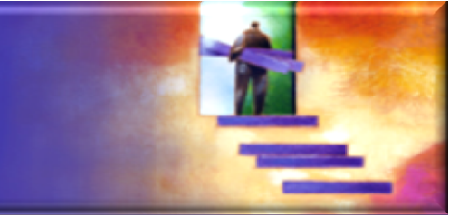
Date	Activity Code	Route No.
01/12/01	24	I-95
01/15/01	23	I-495
02/08/01	24	I-66

Databases in a nutshell



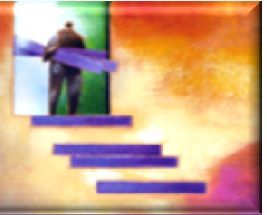
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Databases in a nutshell



N★SQL

The common thing



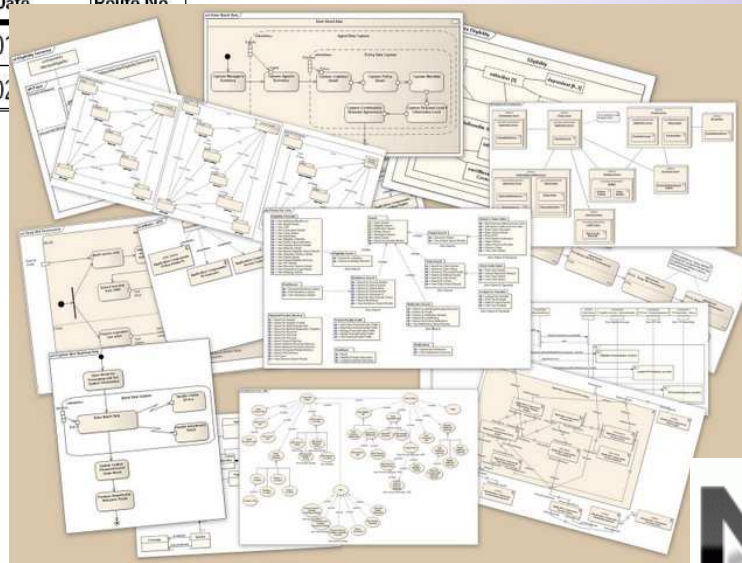
Relational Model

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N★SQL

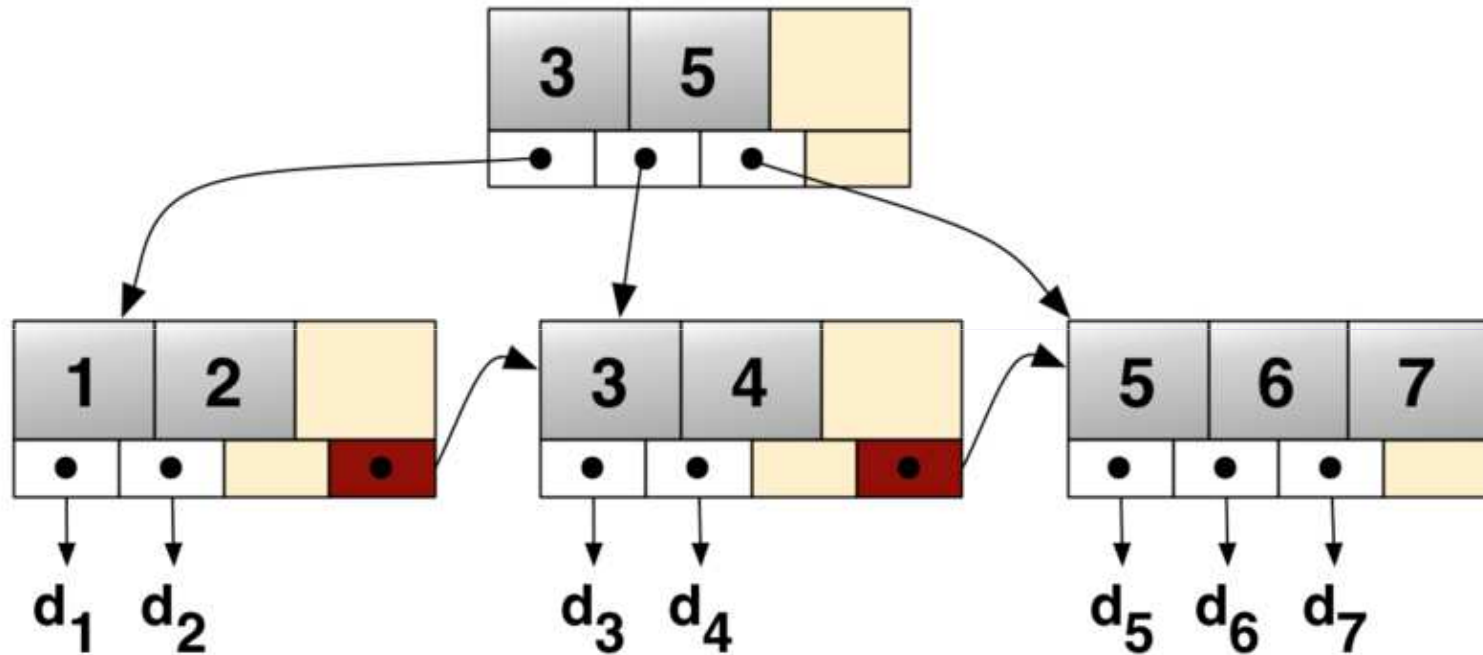
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The power of the tree



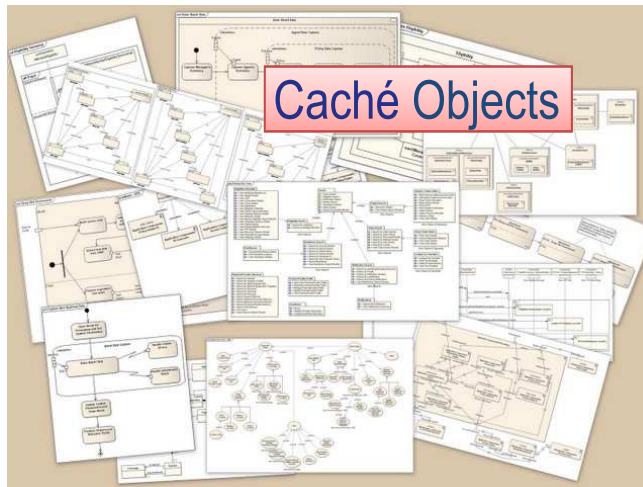
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All use B+Trees



- Source: <http://en.wikipedia.org/wiki/File:Bplustree.png>

Caché's architecture



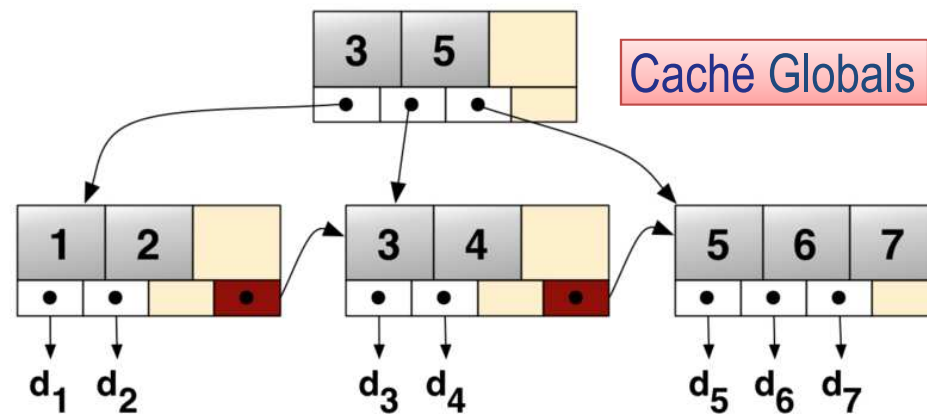
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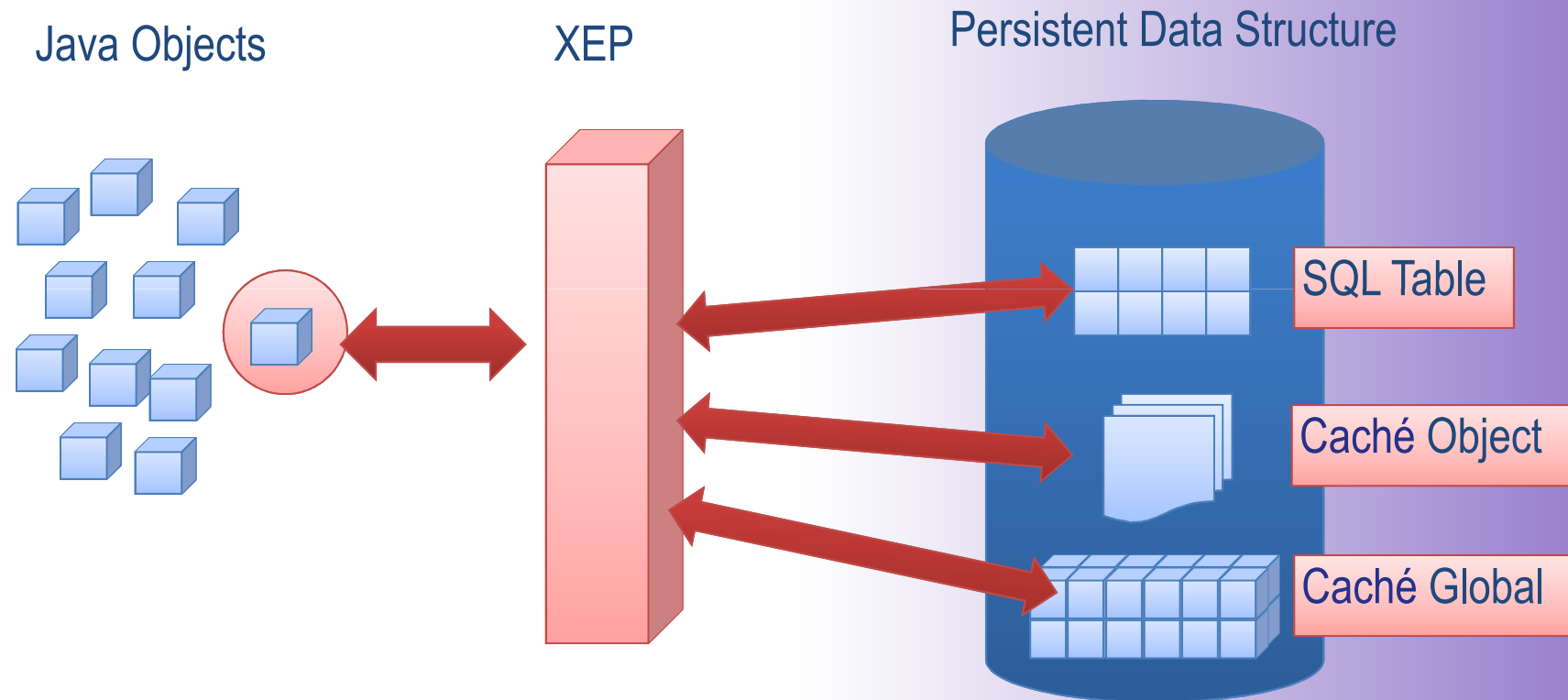
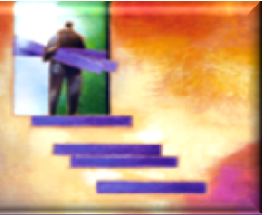
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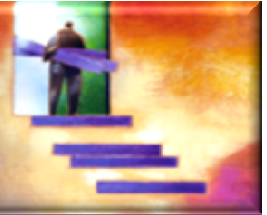
One step further



Today's Challenges



- Amount of relevant data is raising quickly
- Lots of transactions per seconds



- Questions?
- Thanks for your attention!