SQL Server Application Development Best Practices

DO WE STILL NEED TO THINK IN SQL?

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Summary
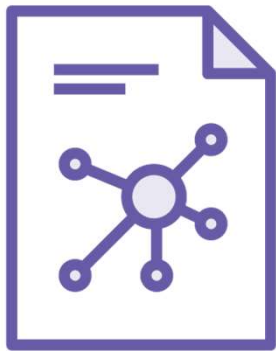
Where do we go with this course?

The Pachadata company

The Declarative approach

How to properly work with databases?

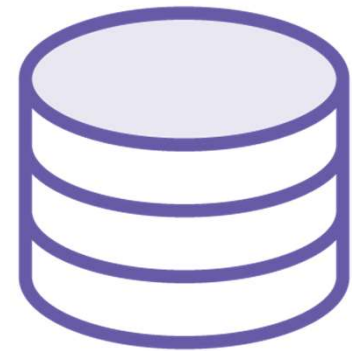Where does the relational model come from?

I Will Talk About ...
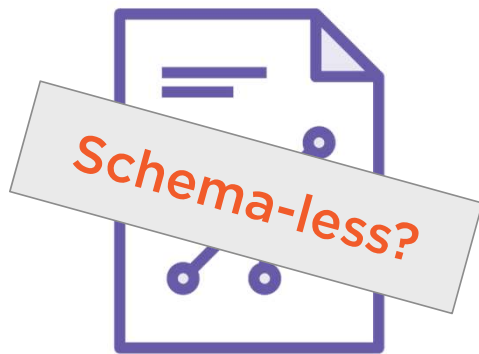
The relational model
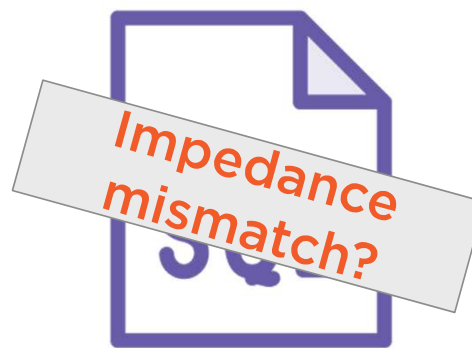**Where it all began**

SQL
Where the magic happens

SQL Server
Where it falls into place

I Will Talk About ...

Schema-less?

Impedance mismatch?

Scalable?

The relational model
Where it all began

SQL
Where the magic happens
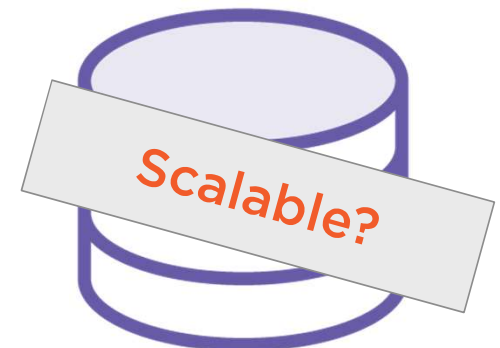
SQL Server
Where it falls into place

Our Example: Pachadata Training

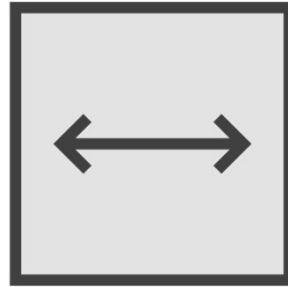**Pachadata**　　　　　**SQL Server**　　　　　**C#**

Go Online, Pachadata!

Pachadata on the web PM1 ...

Entity Framework?

NoSQL?

PM1   Does this need to be on its own line or should it follow web?
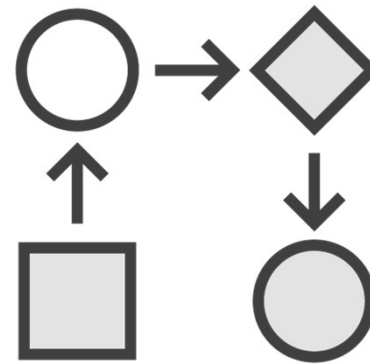
Paul Madden, 1/11/2018

Stateful

Stateful

Fridge Effect

Stateless
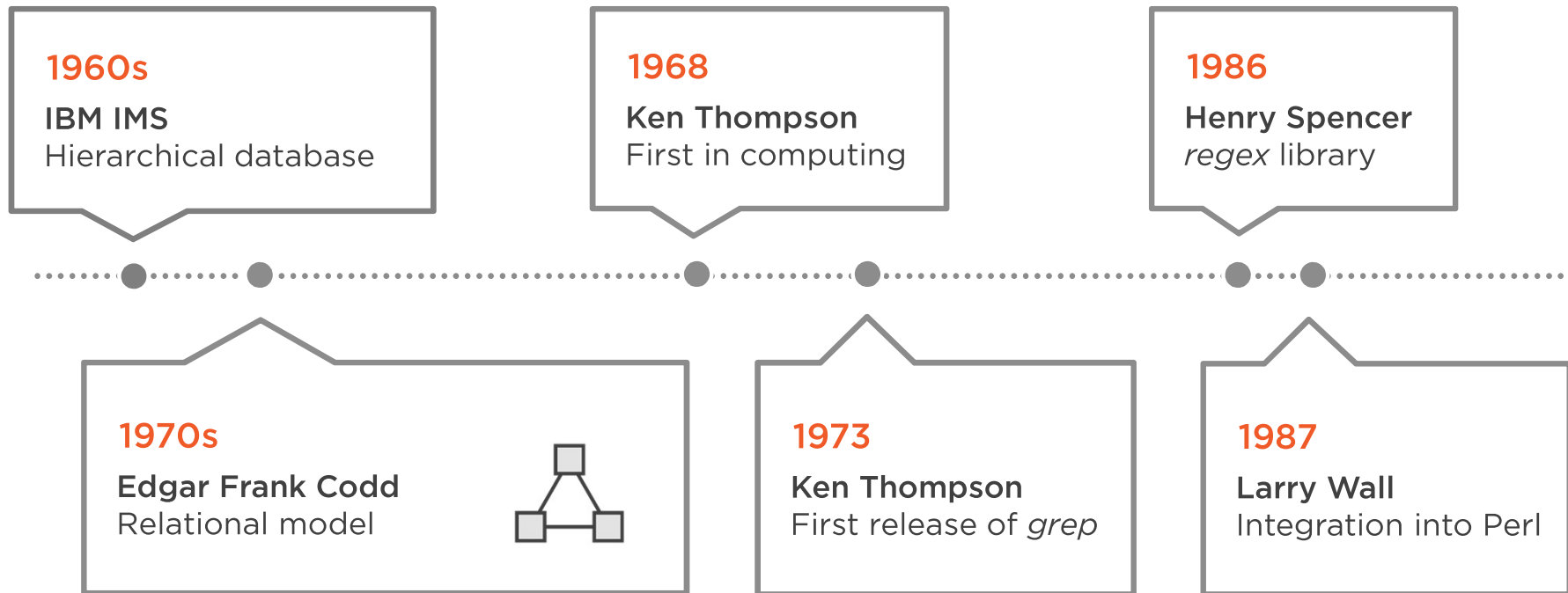
Local Scope

Formal, Logic

Database Time Machine

1960s
IBM IMS
Hierarchical database

1968
Ken Thompson
First in computing

1986
Henry Spencer
regex library

1970s
Edgar Frank Codd
Relational model

1973
Ken Thompson
First release of *grep*

1987
Larry Wall
Integration into Perl

From Imperative to Declarative

Formal logic

1960s

IBM IMS
Hierarchical database

Relational model

1970s

Edgar Frank Codd
Relational model

Set theory
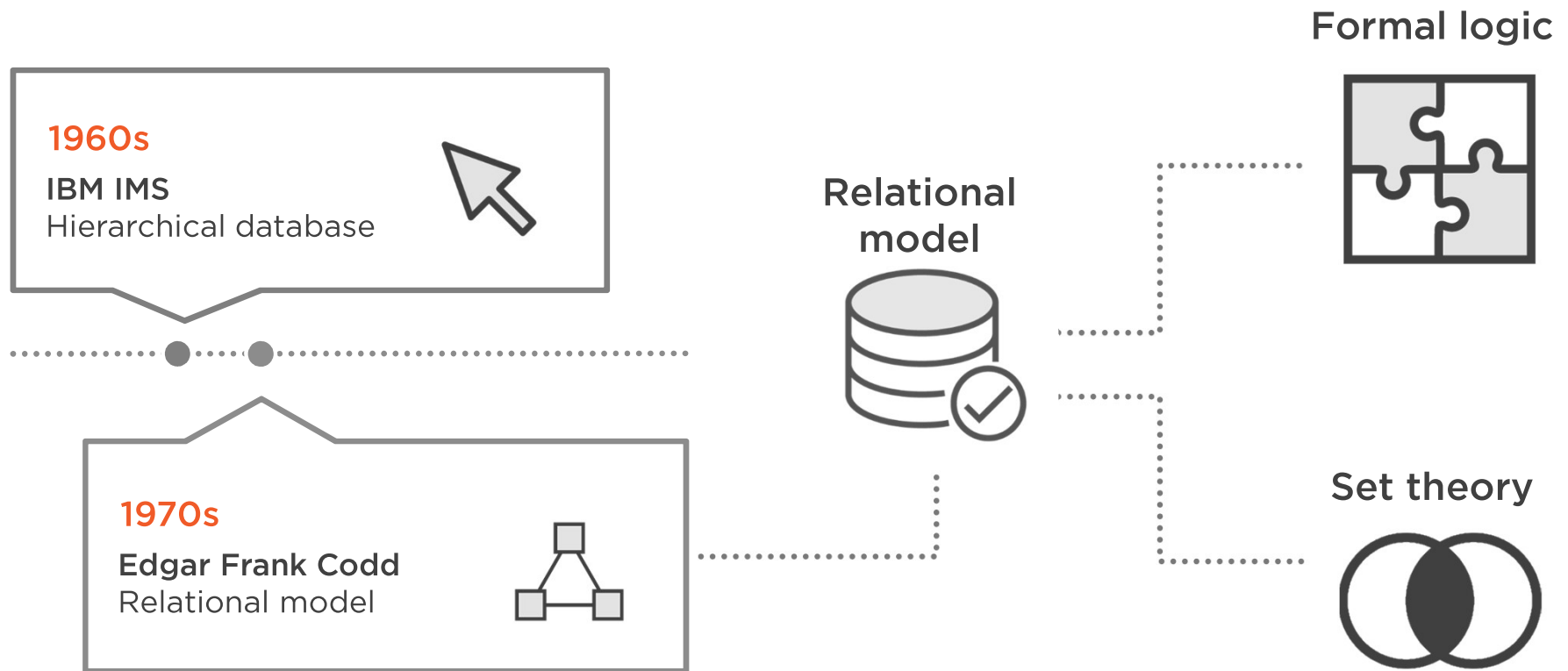
Imperative vs Declarative

**Imperative
Programming**
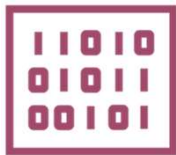
**Declarative
Programming**

Conclusion

Pachadata

Imperative vs. Declarative

C#

Stateful vs. Stateless

Set-oriented

SQL