

# Database Design

이 윤 준

대학정보화사업본부

# Schedule\*

0. Seminar Overview
1. Overview of the Relational Data Model
2. Why DB Design?
3. Development Process
4. Requirements
5. Conceptual Data Model
6. Generalization & Specialization
7. Relational Database Design
8. Normalization
9. Keys and Constraints

\*subject to change without notification

# 0. Seminar Overview

이 윤 준

대학정보화사업본부

# Schedule\*

0. Seminar Overview
1. Overview of the Relational Data Model
2. Why DB Design?
3. Development Process
4. Requirements
5. Conceptual Data Model
6. Generalization & Specialization
7. Relational Database Design
8. Normalization
9. Keys and Constraints

\*subject to change without notification

“Data is the Future”

- Chris Ré

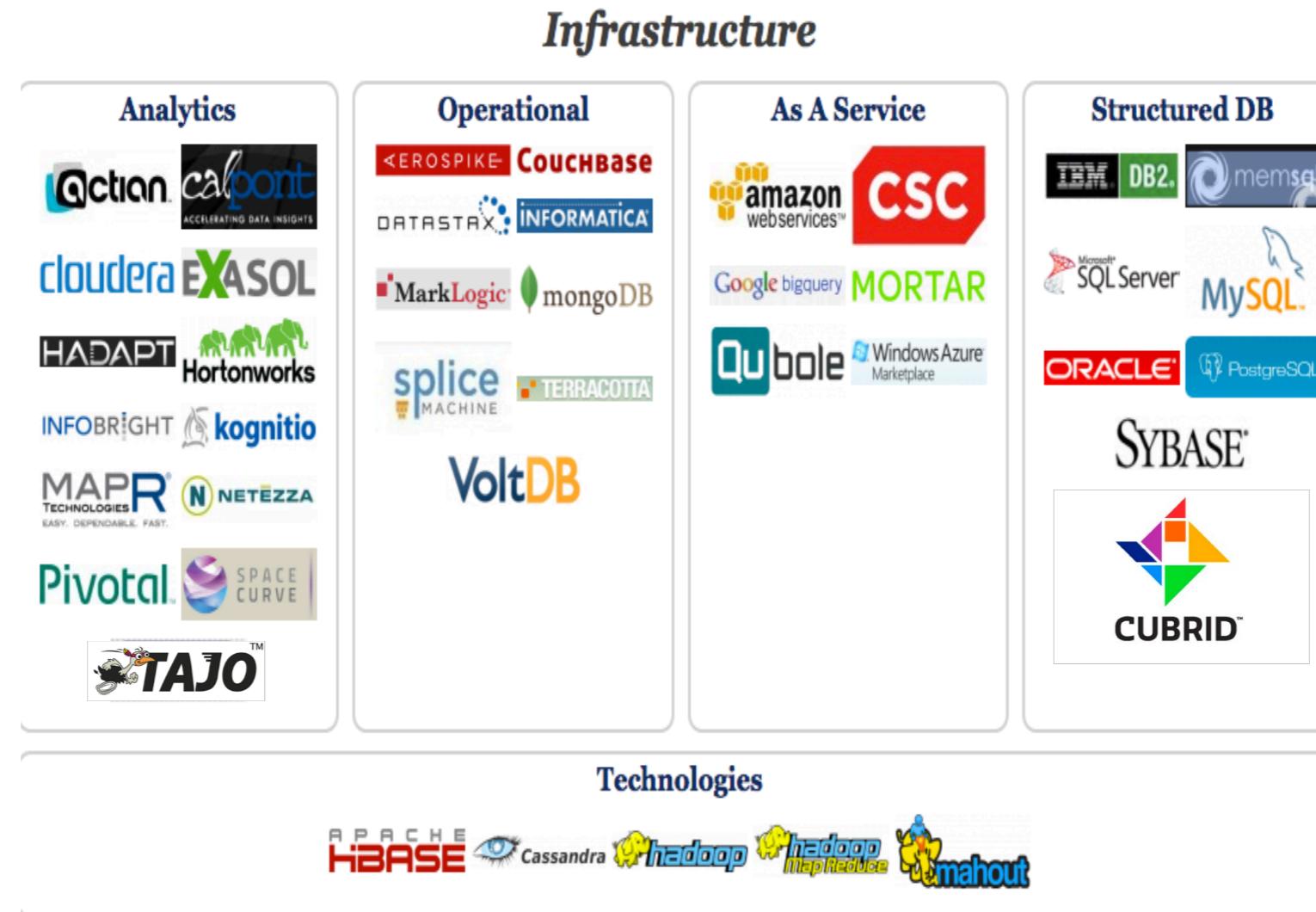
The world is increasingly  
driven by data...

데이터의 저장과 관리를 위한 능력 함양

# What will be dealt with in this section

1. Motivation for studying DB
2. Overview of coverage

# Big Data Landscape... Infrastructure is Changing



**New tech. Same Principles.**

# Why should **you** study databases?

## Mercenary- make more \$\$\$:

- Startups need DB talent right away = low employee #
- Massive industry...



## Intellectual:

- Science: data poor to data rich
  - No idea how to handle the data!
- Fundamental ideas to/from all of CS:
  - Systems, theory, AI, logic, stats, analysis....

Many great computer systems ideas started in DB.

# What for (and not for)?

- Discuss **fundamentals of database design**
  - How to design databases, query databases, build applications with them.
  - How to debug them when they go wrong!
  - Not how to be a DBA or how to tune Oracle 12g.
- We'll neither cover **how database management systems work**
- Nor **the principles of how to build** them ☹

# References

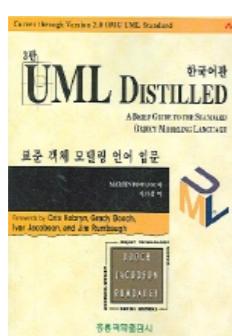
## Slides cover **essential material**

- This is your best reference.
- But, you read the textbook when necessary.



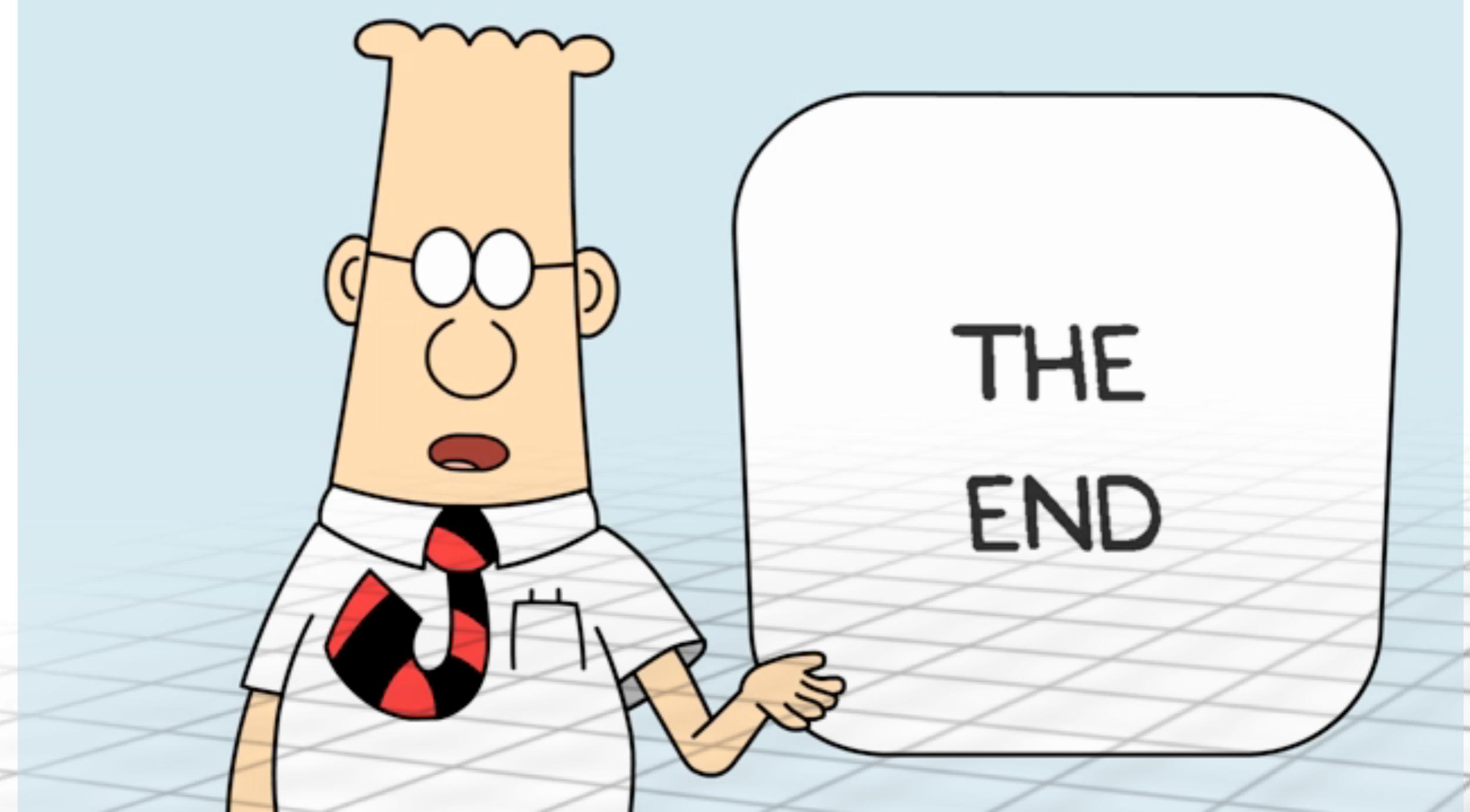
Beginning Database Design from Novice to Professional,  
2<sup>nd</sup> ed.,  
Clare Chursher, Apress

Free e-book downloaded from <http://it-ebooks.info/book/5174/>



UML Distilled 3판 - 한국어판 - 표준 객체 모델링 언어 입문

마틴 폴러 (지은이), 이인섭 (옮긴이) | 홍릉과학출판사



감사합니다

출처: metachannels.com