

Carnegie Mellon Univ. Dept. of Computer Science 15-415/615 - DB Applications

C. Faloutsos – A. Pavlo Lecture#1: Introduction



Outline

- Introduction to DBMSs
- The Entity Relationship model
- The Relational Model
- SQL: the commercial query language
- DB design: FD, 3NF, BCNF
- indexing, q-opt
- concurrency control & recovery
- advanced topics (data mining, multimedia)

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We'll learn:

- What are RDBMS
 - when to use them
 - how to model data with them
 - how to store and retrieve information
 - how to search quickly for information
- Internals of an RDBMS: indexing, transactions

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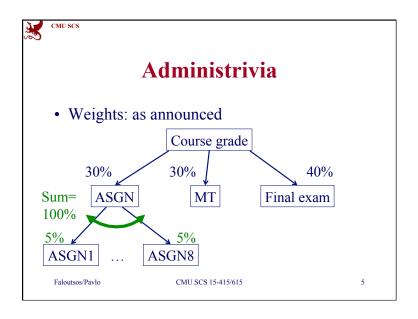
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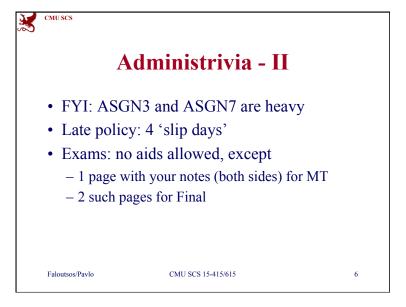
We'll learn (cnt'd)

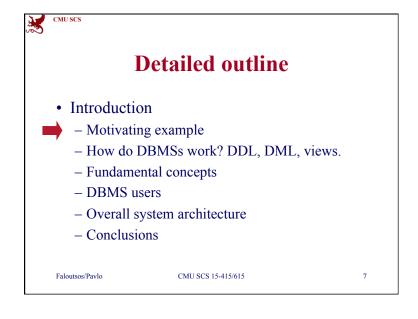
- · Advanced topics
 - multimedia indexing (how to find similar, eg., images)
 - data mining (how to find patterns in data)

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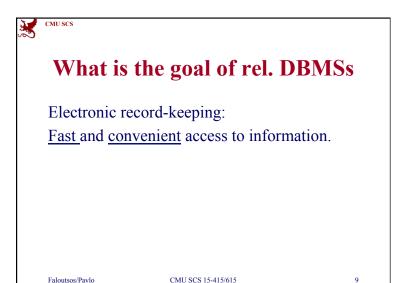
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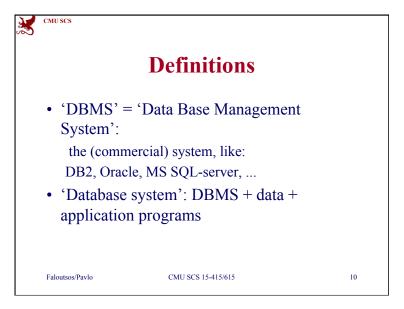


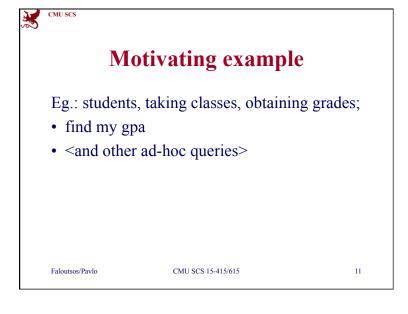


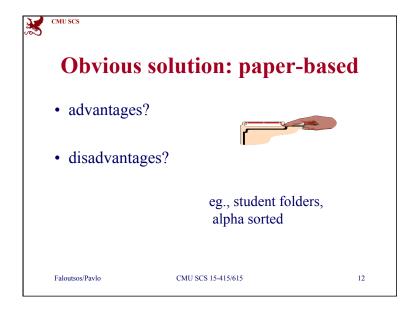


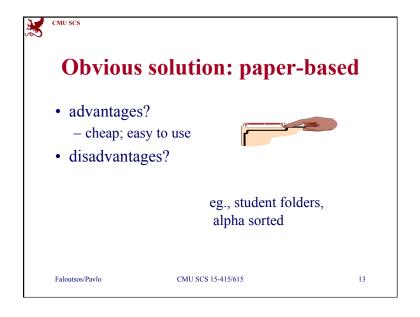


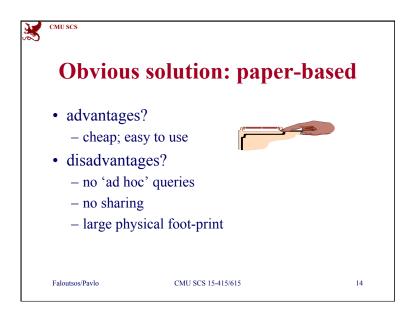


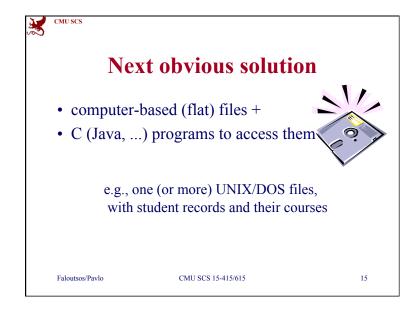


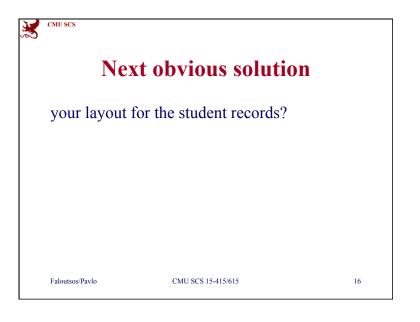


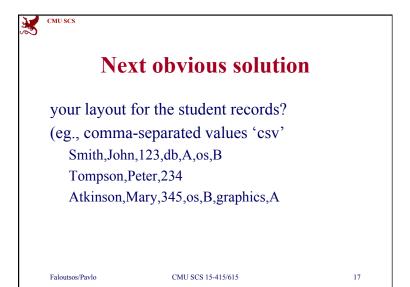


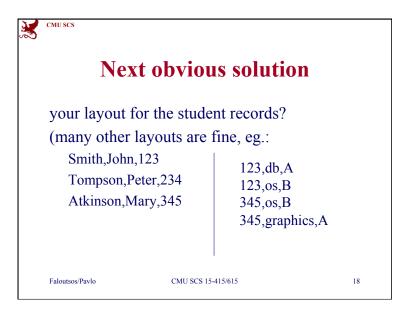


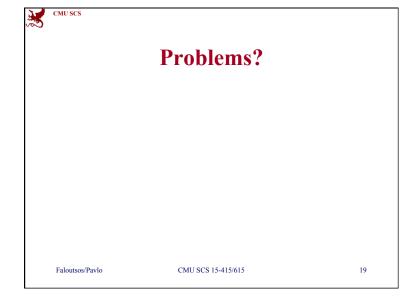


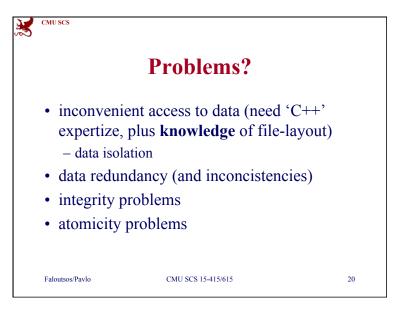


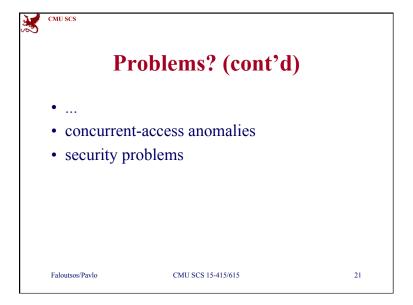


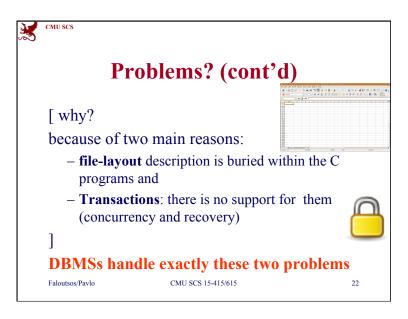




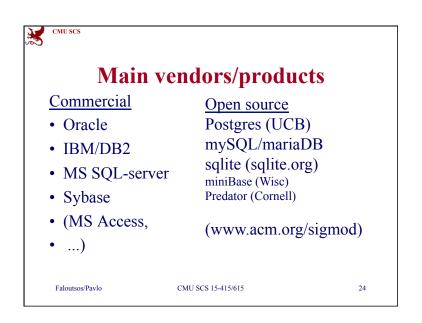


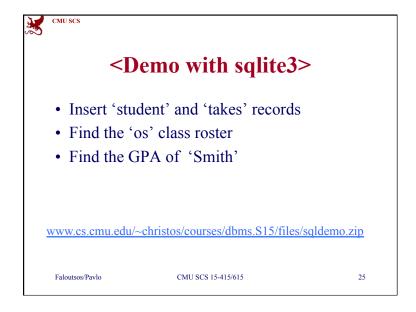


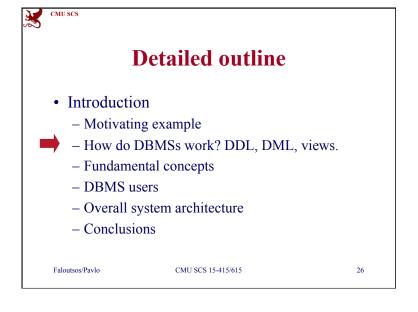


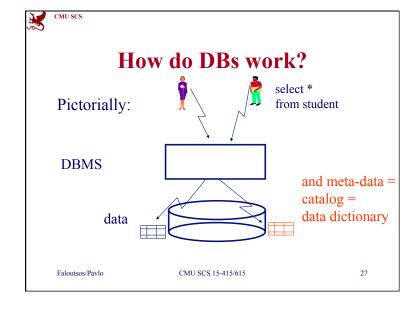


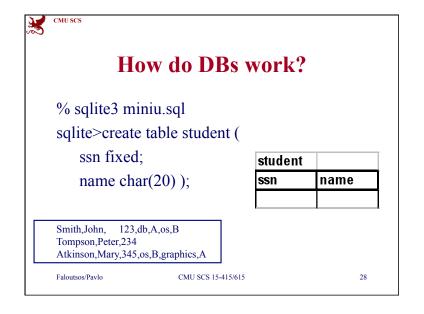


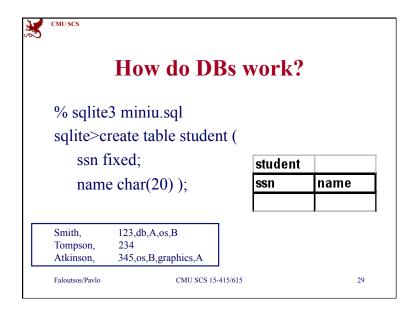


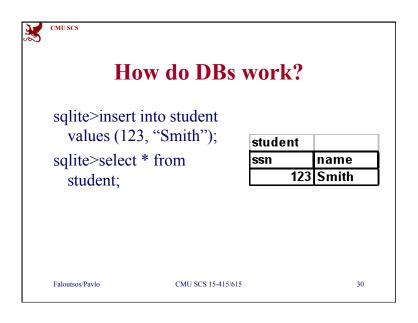


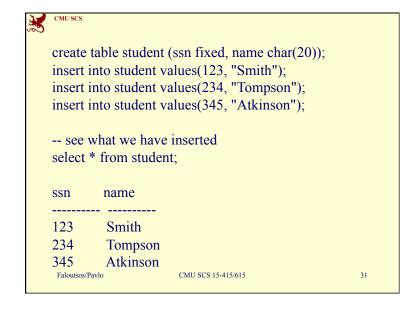


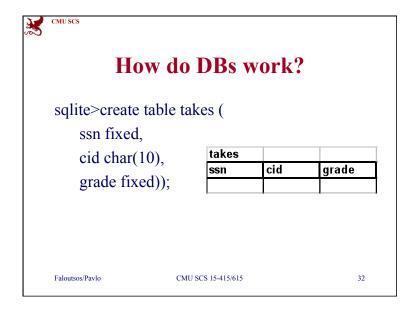


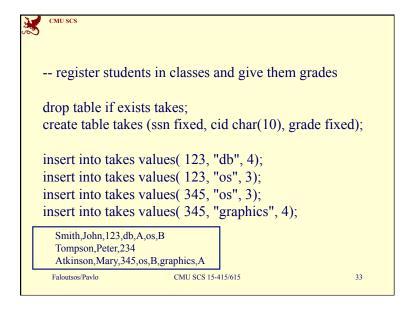


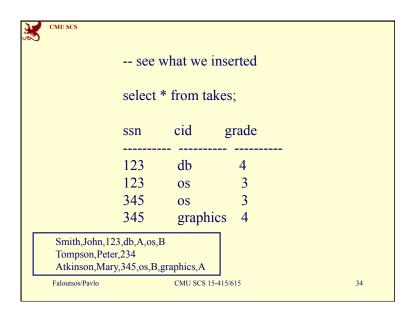


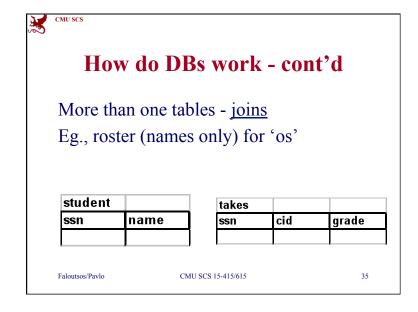


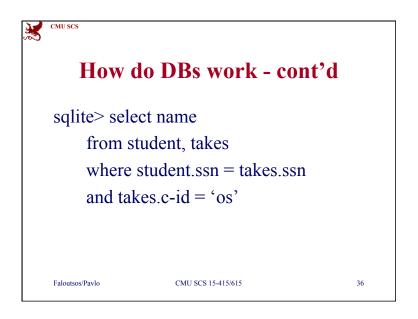


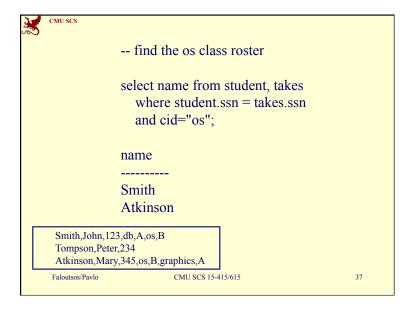


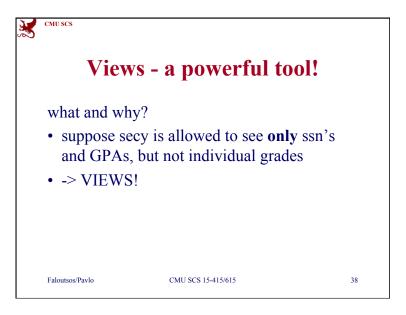


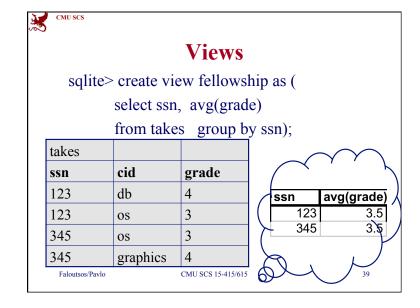


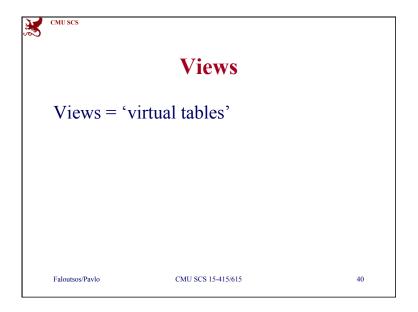


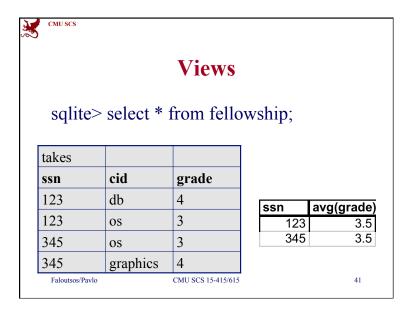


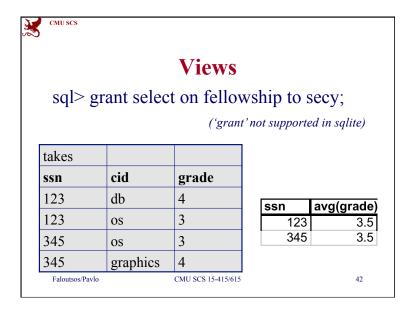


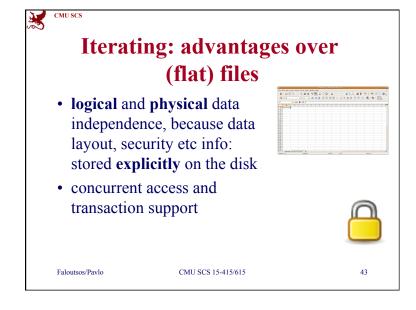


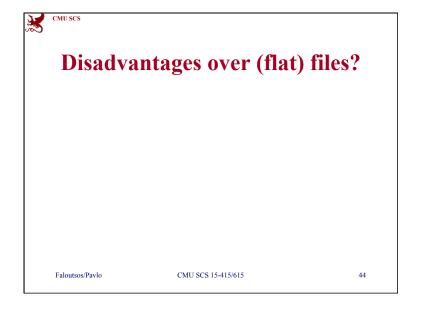


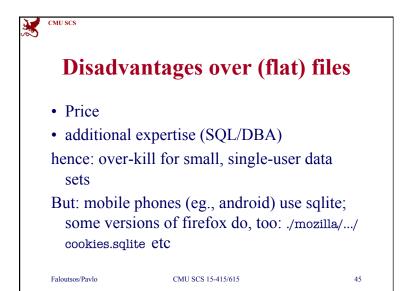


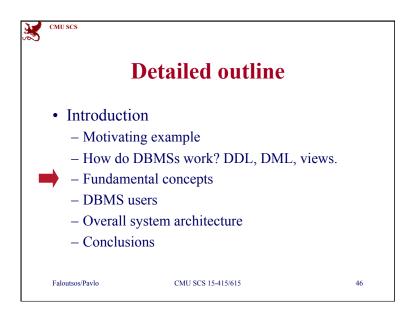


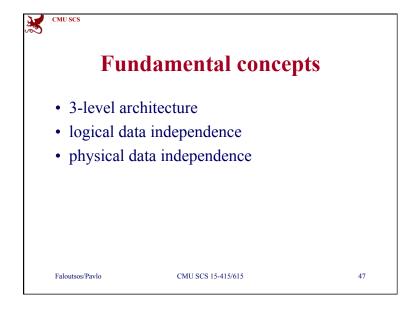


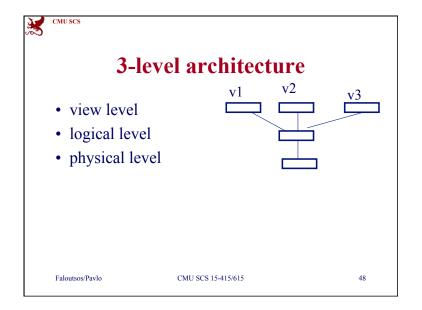


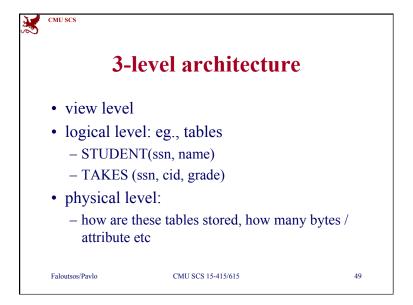


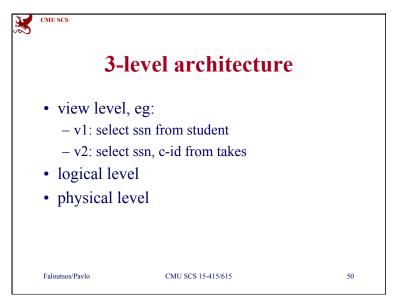


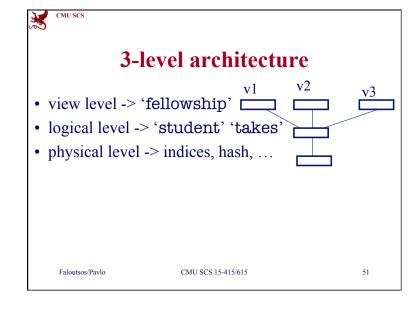


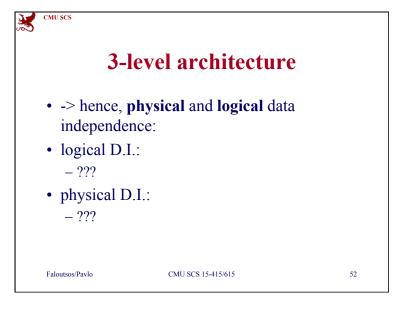


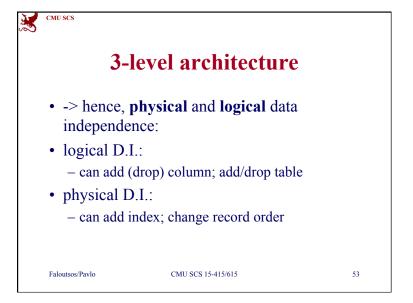


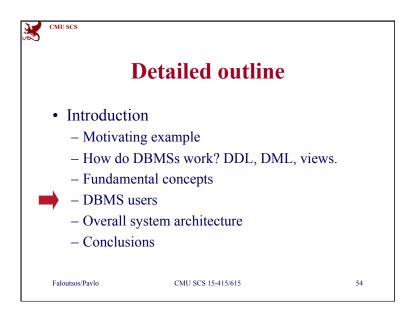


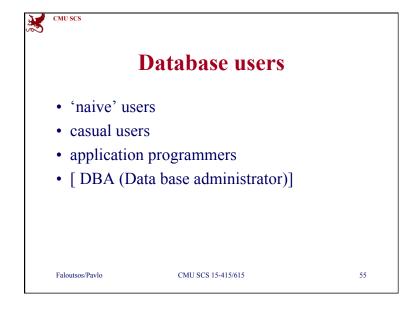


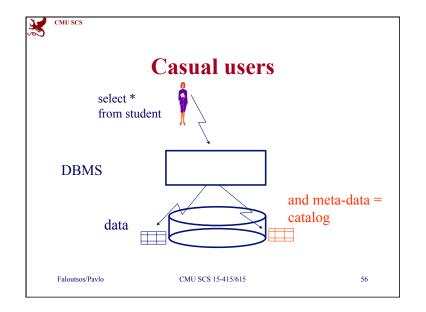


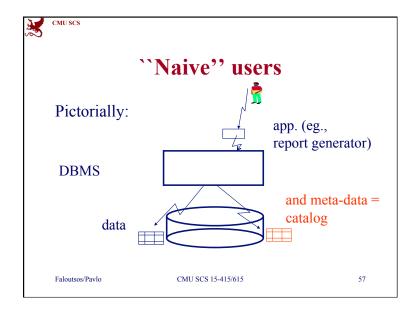


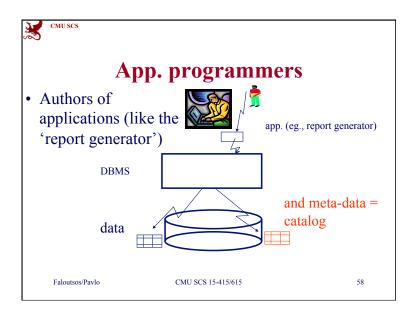


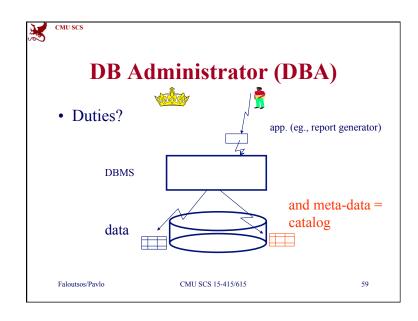


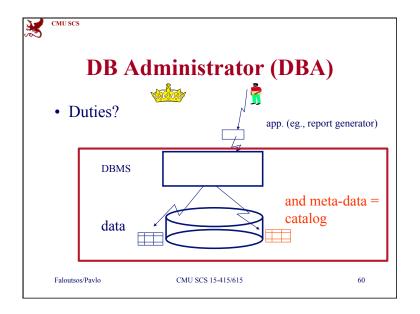


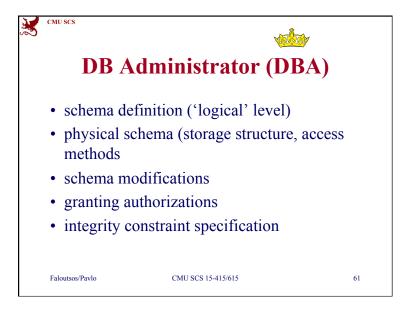


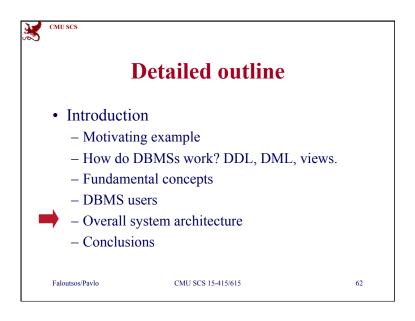


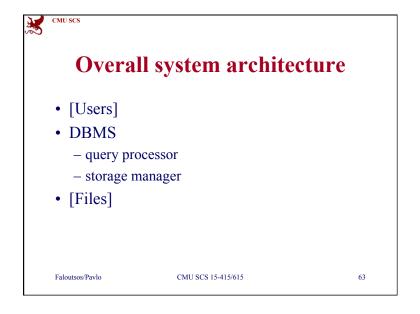


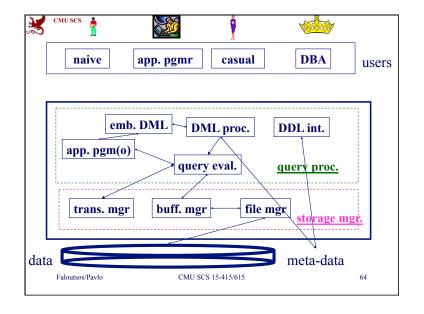




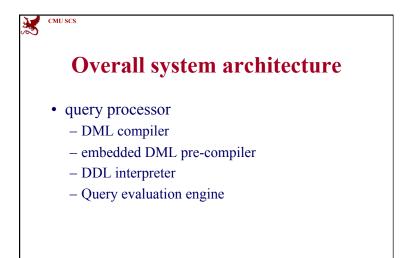








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