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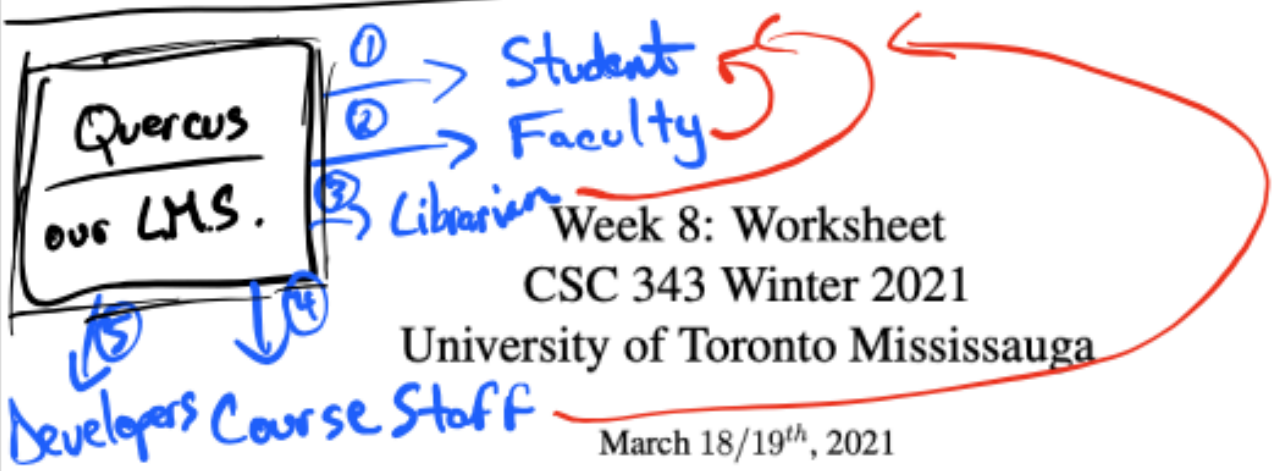

Week 8: Worksheet
CSC 343 Winter 2021
University of Toronto Mississauga

March 18/19th, 2021

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Recap

Materialized View

- logical view
- Stored to disk
- Driven by SELECT
- to index it!
- Can be outdated

Virtual View (Default)

- logic view
- Stored in memory (RAM)
- The most up-to-date

M.V. vs. V.V. → has the freshest data

- Can have old data (used for data warehousing)

View Creation Example

→ Marvel extension !!

Indexes → Hash Table, Tree Structure? "hotspots"

"data racing"

ISAM

Codd @IBM

Indexed Sequential Access Method

↳ Records → composed of fixed length fields
↳ stored sequentially in key sequence

↳ 2ndary set of Records (Index)

B Trees → Multi-way Tree. Contained Nodes ∞ set of keys & pointers.

↳ Inequality checking is faster here!

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B+ Trees → Combo of ISAM & B Trees

↳ Root node or intermediary nodes contain index pages & data pages

↳ Leaf nodes

↳ No overflow pages

↳ Dynamic.

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Number of keys/page: 4

Number of pointers/page: 5

Min. Fill Factor*: 50%

Minimum # of keys in each page*: 2

* ROOT not bound by this rule!

Case

Class Exercise!

Given the following B+ Trees, complete the following action:

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