CE205 Data Structures Week-14

Direct File Organization Indexes Binary and B Tree Structures for File

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| 1 CE20 | 5 Data Structures |
| 2 Week | -14 |
| 2.0.1 Direct | File Organization Indexes Binary and B Tree Structures for File |

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2.0.2 Outline

- Indexed Sequential File Organization
- Bits of Information
- Secondary Key Retrieval
 - Multilist File Organization
 - Inverted Files
 - Partial Match Retrieval with Signature Trees
 - Partial Match Retrieval with Page Signatures
- Bits and Hashing
 - Signature Hashing
 - Bloom Filters
 - Classification Hashing
 - Check Hashing
- Binary Tree Structures

 $^{^{1}}$ pandoc_ce205-week-14-direct-file-b-tree.en_doc.pdf

²pandoc_ce205-week-14-direct-file-b-tree.en_word.docx

³ce205-week-14-direct-file-b-tree.en_slide.pdf

 $^{^4}$ ce205-week-14-direct-file-b-tree.en_slide.pptx

- Binary Search Trees
- AVL Trees
- Internal Path Reduction Trees
- B-Trees and Derivatives
 - B-Trees
 - B#-Trees
 - B+ -Trees

2.0.3 Indexed Sequential File Organization

- Bits of Information
- Secondary Key Retrieval
 - Multilist File Organization
 - Inverted Files
 - Partial Match Retrieval with Signature Trees
 - Partial Match Retrieval with Page Signatures
- $\bullet \ \, \text{https://www.amirajcollege.in/wp-content/uploads/2020/06/3130702-chapter-4-hashing-and-file-structure.pdf} \\$

2.0.4 Bits and Hashing

- Signature Hashing
 - Unique File Hashing
- Bloom Filters
 - https://www.geeksforgeeks.org/bloom-filters-introduction-and-python-implementation/
- Classification Hashing
 - https://en.wikipedia.org/wiki/Feature_hashing
- Check Hashing

2.0.5 Binary Tree Structures

- Binary Search Trees
- AVL Trees
- Internal Path Reduction Trees

2.0.6 B-Trees and Derivatives

- B-Trees
 - https://www.geeksforgeeks.org/introduction-of-b-tree-2/
 - https://web.itu.edu.tr/~bkurt/Courses/blg341/lecture11.pdf
- B#-Trees
- . • B+ -Trees
 - https://www.geeksforgeeks.org/introduction-of-b-tree/?ref=gcse

$$End-Of-Week-14$$