wstore

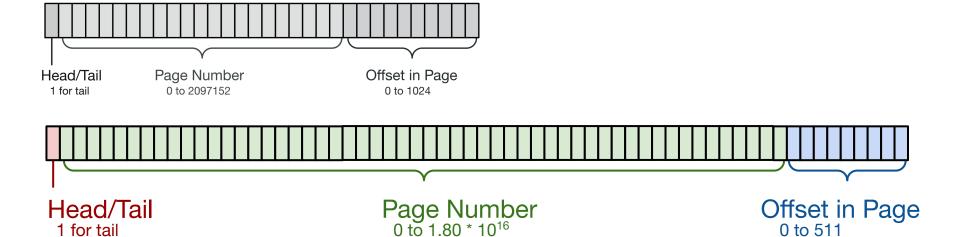
CS 451/551 Project 2 Presentation

Eric Edwards
Cory Johns
Jacob Kolster
Alex Peterson Santos

RID Bit-level Representation

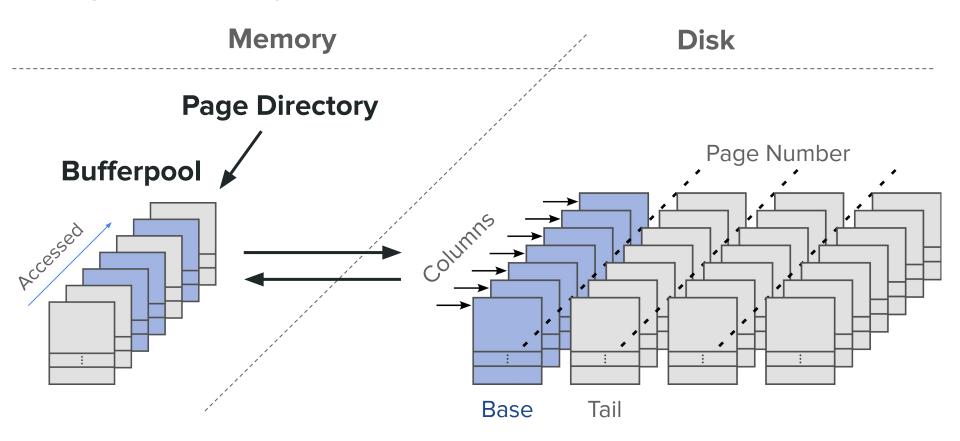
1 for tail

Pages now store 8-byte ints (previously 4). This slightly alters RID structure.



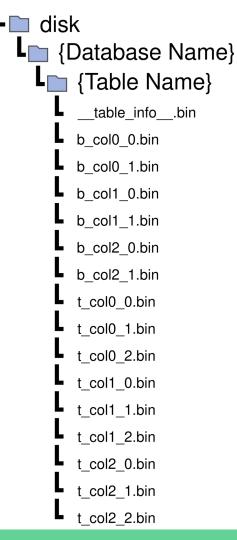
0 to 511

Page Directory & Bufferpool



FileManager

- Manages interaction between pages and disk
- Each specific to each table
- Organizes how files are stored
 - Directory corresponds to table
 - Page_column, tail/base record, page number used as identification



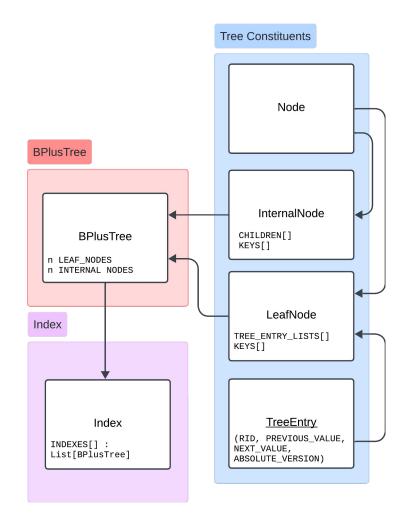
Merge Function

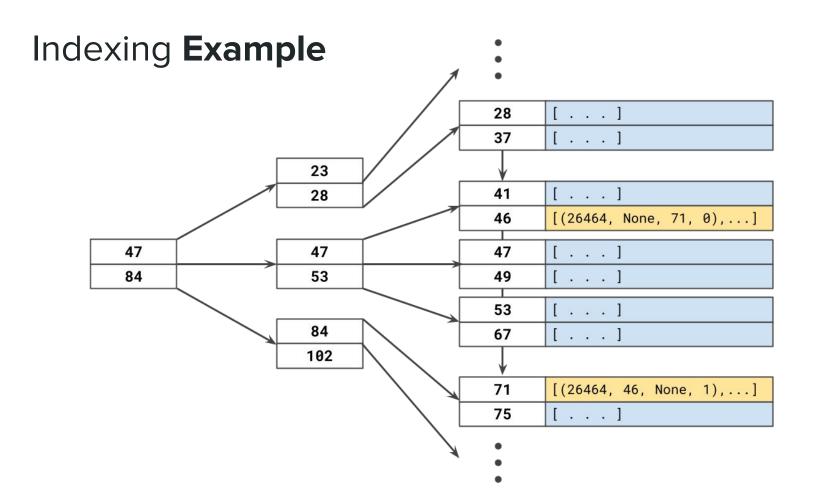
- Updates base records to latest tail version
- Copies base pages; applies new changes; swaps for original base pages
 - Merge_set object recording the tail pages that contain new changes
 - Updates the "update timestamp" with each updated base record
 - Cumulative tail records with version history limit the performance of the merge function

Indexing

Refactored index to support versioning.

TreeEntry objects store information about the location of the previous and next versions in the index.





Task Distribution

- Page Directory and Bufferpool (Cory)
- Saving and Loading
 - File Manager (Jake)
 - Database and Tables (Cory)
- Index (Alex / Eric)
- Merge Function (Alex / Eric / Jake)