Data Storage and Indexing:
Alternatives for Data Entries

Objectives

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Identify major indexing schemes in Database Systems

Alternative 1

Index structure is a file organization for data records

At most one index on a given collection of data records can use Alternative 1

If data records are very large, number of pages containing data entries is high. This implies size of auxiliary information in the index is also large, typically.

Alternatives 2 and 3

Data entries typically much smaller than data records.

Alternative 3 more compact than Alternative 2, but leads to variable sized data entries even if search keys are of fixed length.