

# MULTI LEVEL INDICES

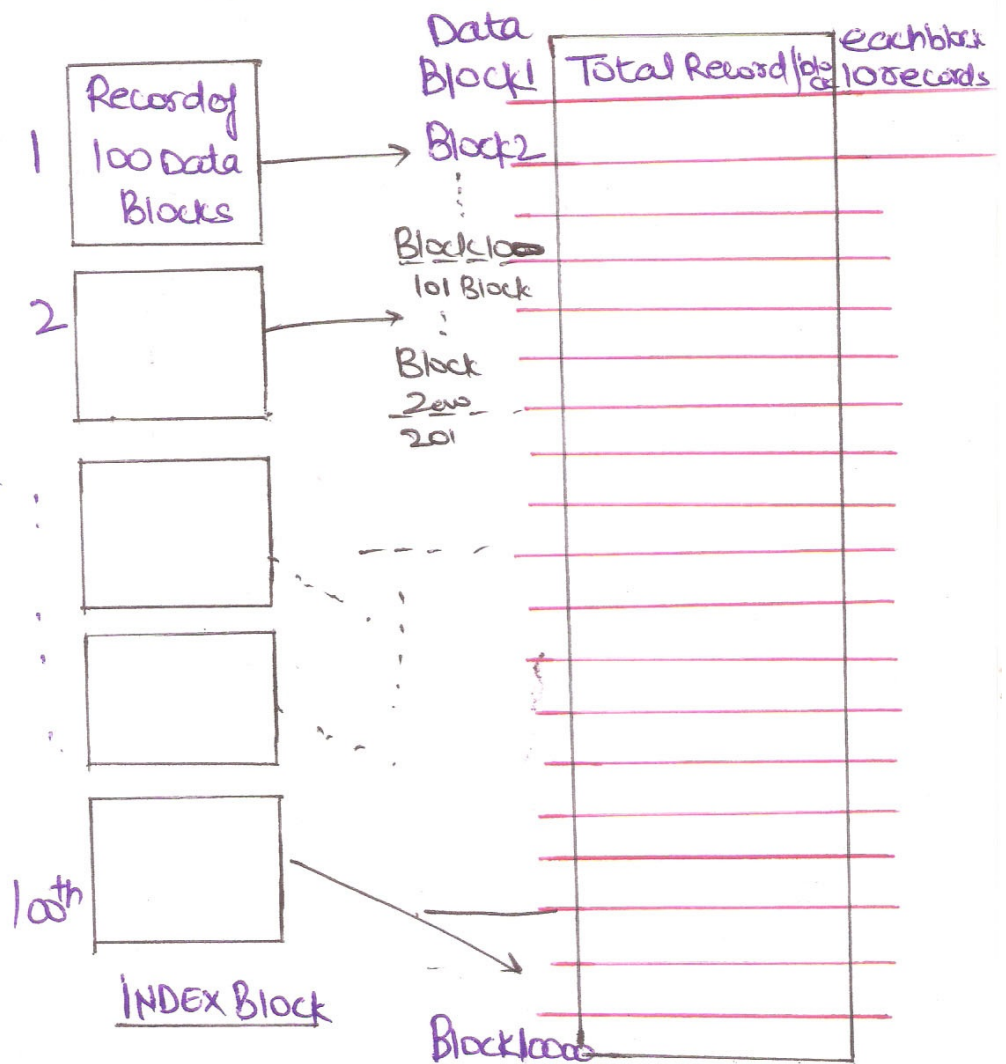
MultiLevel Indices is also one approach of Indexing which Comes under primary Indices for Handling a file with 100000 Records.



Let Suppose :- 100000 Records in a file  
 10 Records per block  
 1 Index per block  
 then we need 10,000 index Records

## Disadvantage

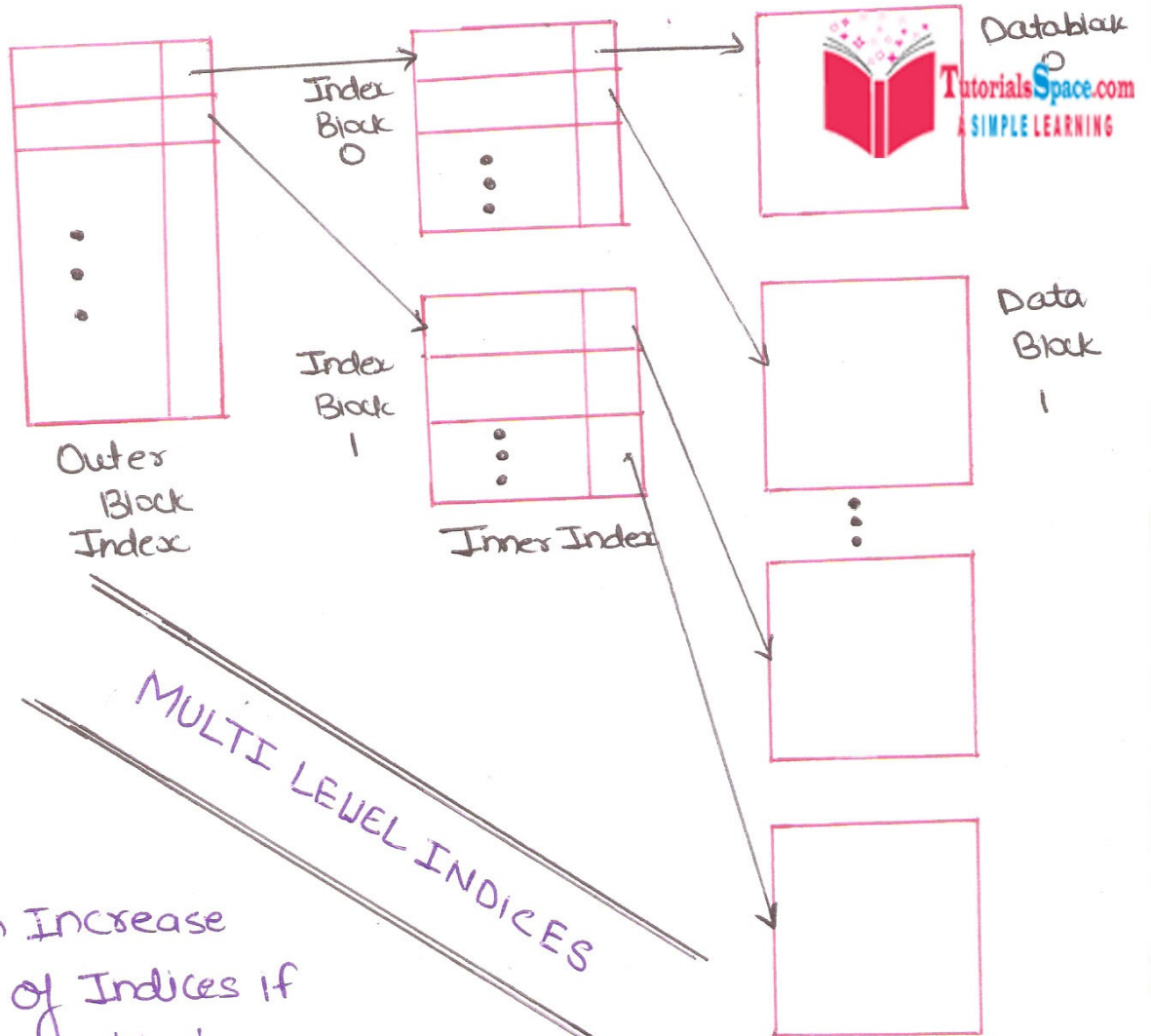
- ① To Search this Binary Search can be used but will have large Cost
- ② 300 millisecond & 2100 millisecond for Search Index block & Data block respectively
- ③ If overflow block is used, binary search will not work & Sequential search has to be used, means Reading full blocks.



To Overcome all these problems, an approach came called Multi-level Indices.

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To Solve the large Data block problem we Create another Level of Indices which we called Multilevel Indices!



We can Increase the Level of Indices if we have very big Large files & Records.

TWO LEVEL SPARSE INDEX REPRESENTATION

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