14-11-20

11-1

Step-1: lookup the record in index file

Step2. Delete the record file

Step 3: Delete the corresponding index key.

Step1: look up the record in index file and if the record file is found, delete it.

Step L: If deland record extry is associated with

casel if an entry for the search key exists in index, it is deleted by replacing the entry in the index with the next Seach key value in the file.

of return out that they

Casel. if the next search key value already has an index entry, the entry is deleted instead of being replaced.

signed Elsent to sport was to madricult Index file memains same.

Step1: Look up for the location of the index to the inserted.

Step 1: Insert the reward file and then the corresponding index.

Glep 3: Point the index to its connesponding trecord.

11- A

Step! Penform a loop up using the seach key value of the record to be intended.

Step. 2: If a free space is available for the record, then insert it and no no change is made in the index file step 3: If the block in which the record has to be inserted is fill, then a new block is inserted created. The first trecord key of the new sorted block has to be insert in the index file

12-1 Number = (460-64+1) × 69

= 397 x69 (for composite index)

Number of seach reys of than simple index = 160-69+1

= 397

b) For composite indea,

The record which only contains thana"Sodan" and listrial: "Sylhed" will be

transferenced form disk to memory. So, the werey will be fasters.

For simple index:

=> The necords which contains thana= "Sadar" will be transferred from disk to memory. Among them there will be another a very to find district: "Sylhet". It is slower.

.

12-2 If leaf node,
minimum search key = [n-1]

Maximm segh key = n-1

= 98

If non-lead,

minimum search key = \frac{n}{2} -1

maximum = 99-1 = 98

If Test, minimum = 1 (if not leaf) = 0 lit read

Maximum = n=99