non-Clustered Index

in-disk b-tree data structure consist of 3 levels :

- 1- root node : contain
  - non-clustered index keys
  - with address of pages of other lower index pages

- 2- intermediate nodes : contain
  - non-clustered index keys
  - with address of pages of other lower index pages

- 3- leaf nodes : contain
  - pointers to actual data

Nonclustered indexes have a structure separate from the data rows or actual table

Indexes Key Is Sorted in Indexes Pages in Root or intermediate nodes

can used with heap table or clustered table

pointers :
- in case clustered table : clustered index keys
- in case heap table : ROWID (File + Page + row)

table can contain many non-clustered indexes

Presented with xmind