

* Dense Index \rightarrow Index file con entry for every search key of actual table

\hookrightarrow 1 Million entry = 1 Million entry in Index file.

* Sparse Index \rightarrow Entry for some search keys

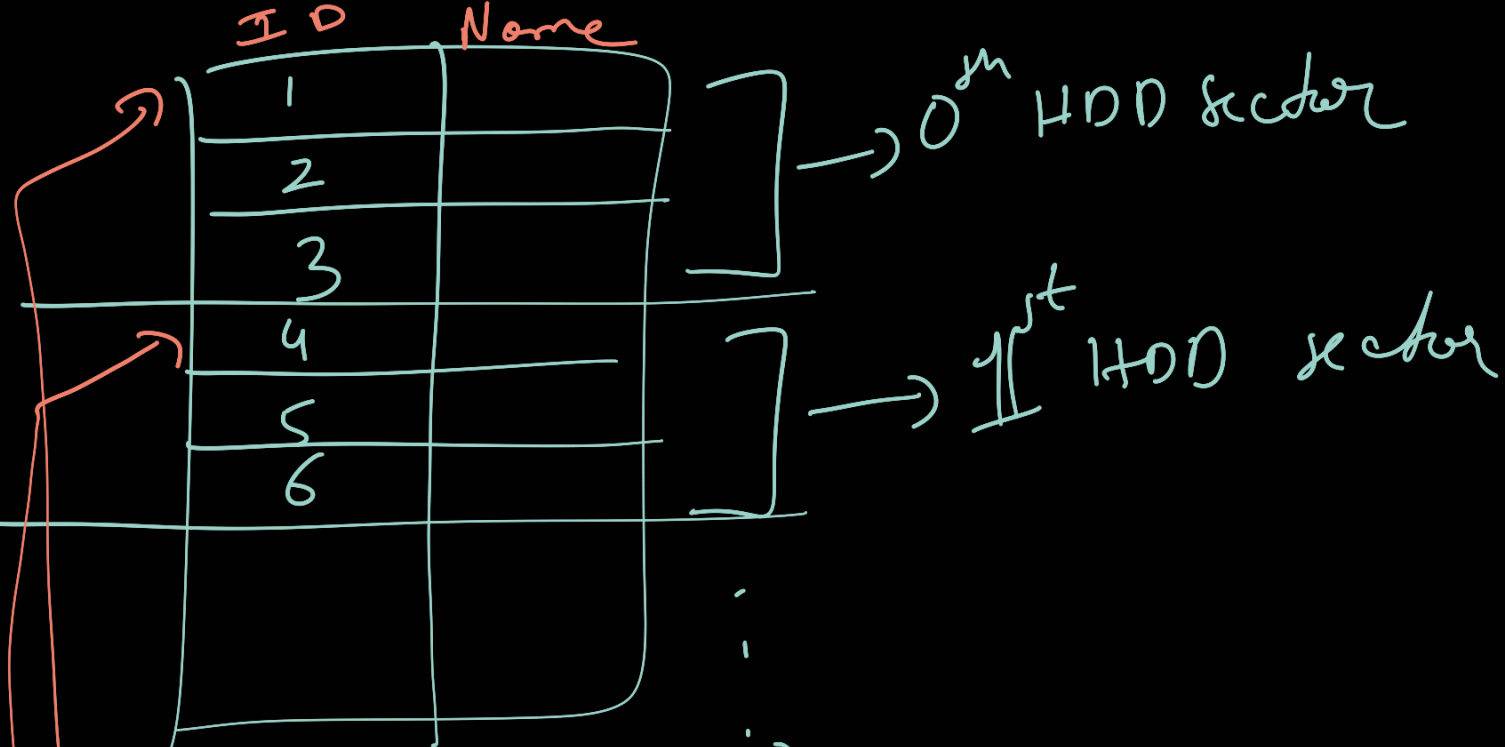
① Primary Index

\hookrightarrow Ordered Index file

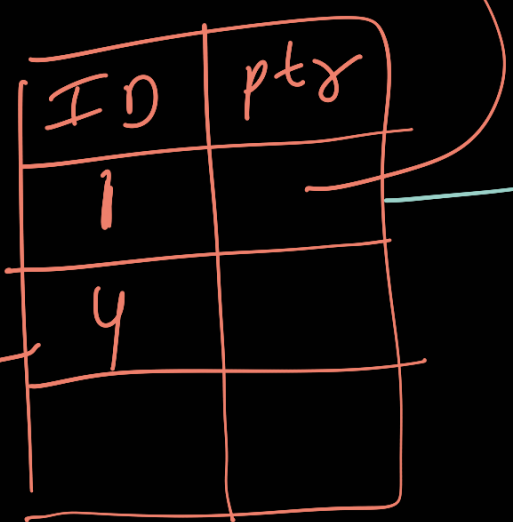
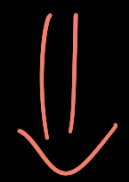
\hookrightarrow Primary Key used as Index

\hookrightarrow Uses sparse Index, why?

E.g \rightarrow 1 Million records and the table is sorted



(File containing records)



pointer or address of first record of each block

- ① All records are fixed length
- ② Any other record within some block can be easily obtained

③ Sparse Index is used

Flow → Search in index file

⇓
but Block where record
is present
⇓

1 sector/Block can contain
multiple records

⇓
To find particular record

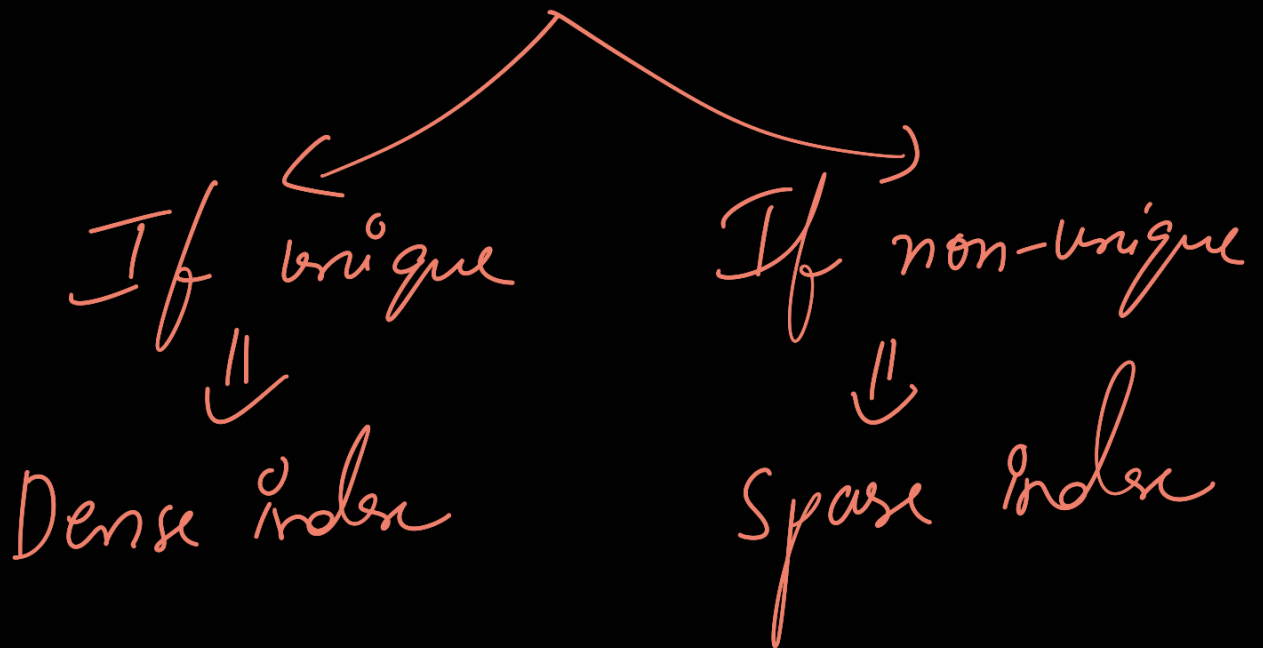
Base address + offset × Size of record

✓
As this is
fixed length
records.

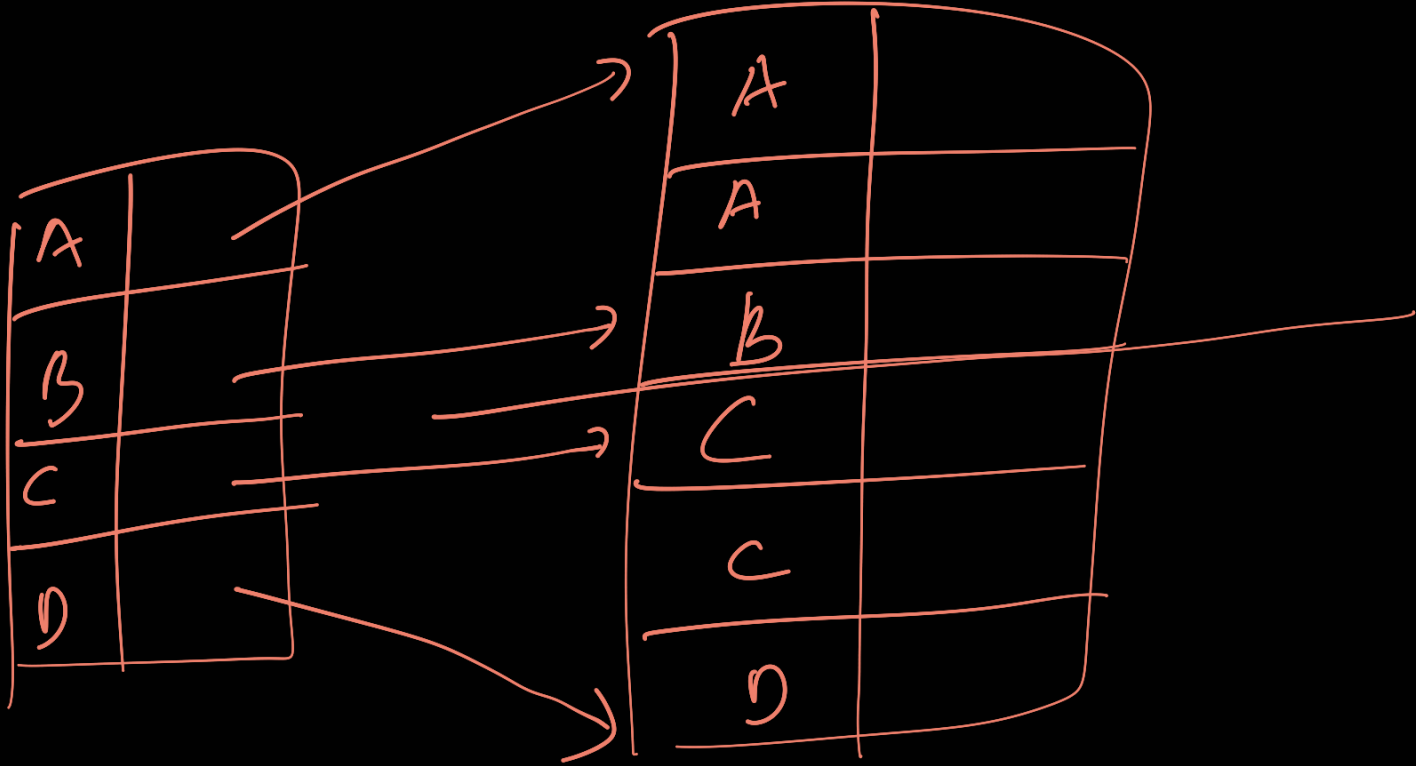
② Clustered Index

- ↳ Index on non-Key
- ↳ File is ordered

As, it non-key, it may not be unique in table



↳ Index file entry created for first occurrence of non-Key



③ Secondary Index

- ↳ Index on non key or candidate key
- ↳ Index entry for each record
- ↳ Records are un ordered
- ↳ Dense Index

* All of these are single level index