* Indexes:-

Its a data structure technique which allows you to quickly retrieve records from a database file. An index is a small table having column compose of key and pointer.

Types:

primary, Clustering, Secondary

* Primary:

This index is an ordered file. The first field is the same a primary key and second field is pointed to that specific data block.
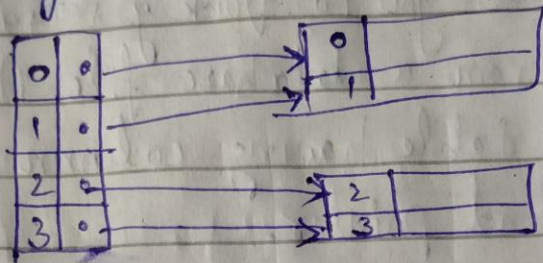
It has further two types:
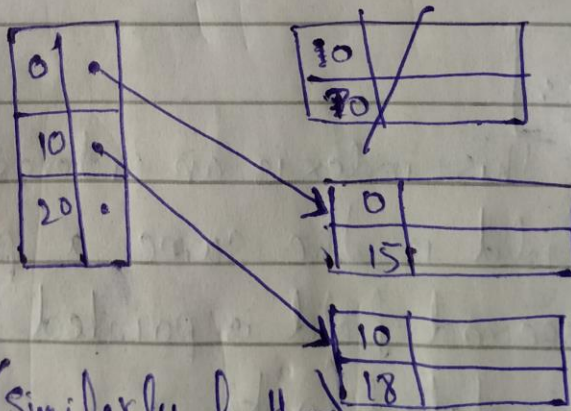
- Dense index
- Sparse index.

- **Dense Index:**

  a record is created for every search key valued in the data base.

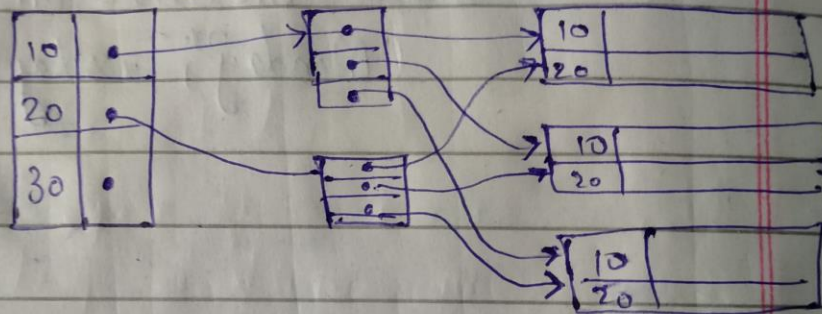- **Sparce Index:**

  for some values of search key:

(Similarly further)

* **Secondary Index:**
It can be generated
by a field which has a unique value
for each record and it should be
a candidate key.

* **Clustered Index:**
records themselves are stored
in the index. File key are physically ordered
on a nonkey field without a distinct value
for each record.

Department table

Student	Dept id	Phone
Abdulah	2	03...
Haris	2	0 0
Noman	3	"
Sabir	4	"
Shezad	3	"

Index	Pointer
2	•
3	•
4	•