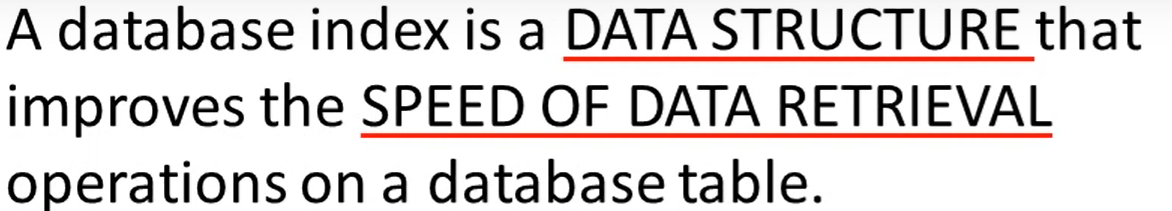
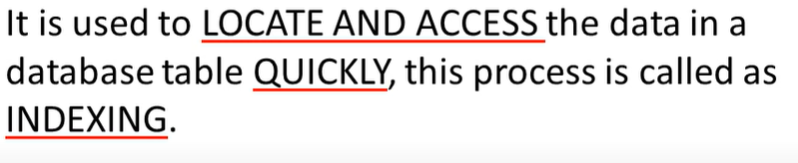
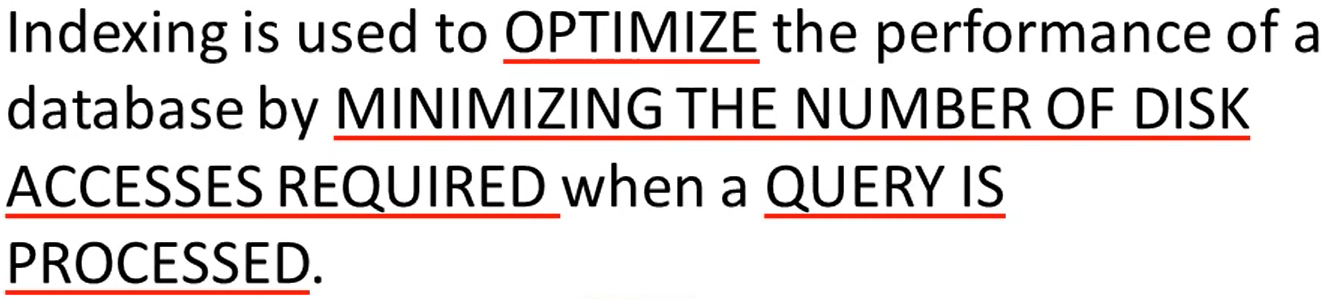
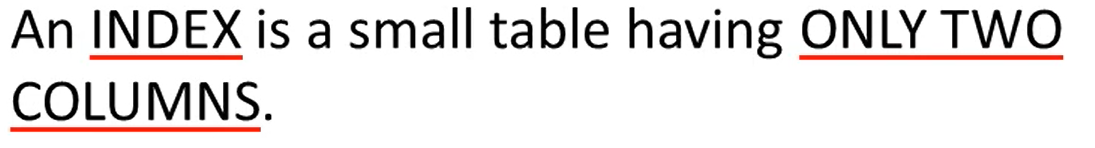
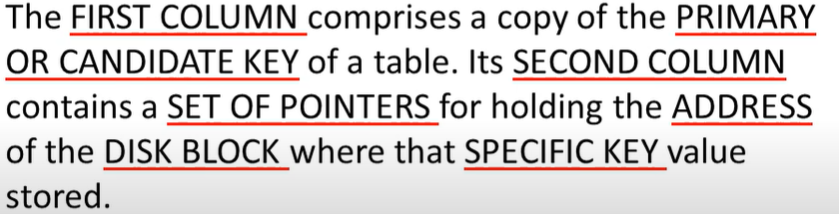
**Indexing**



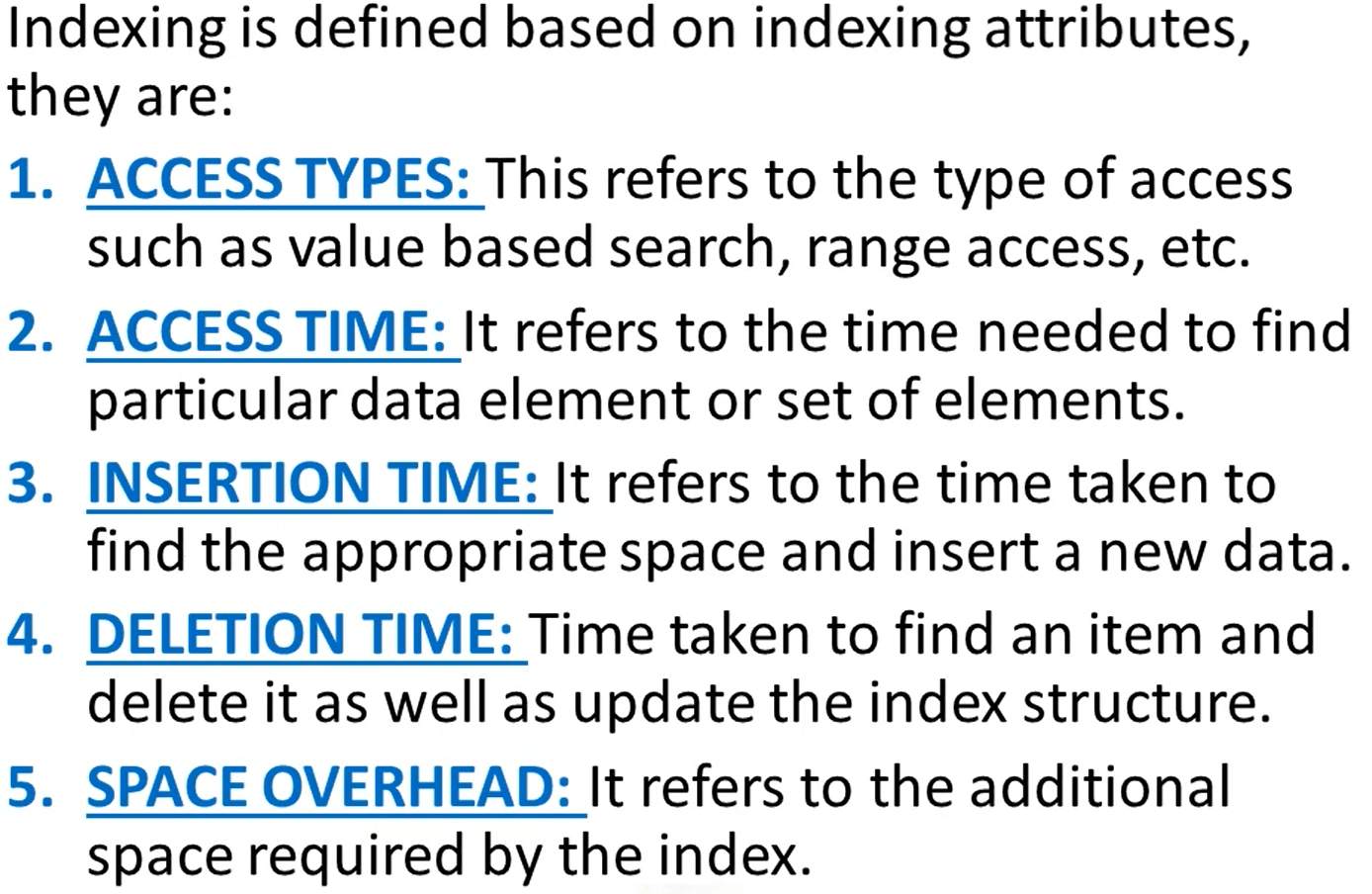




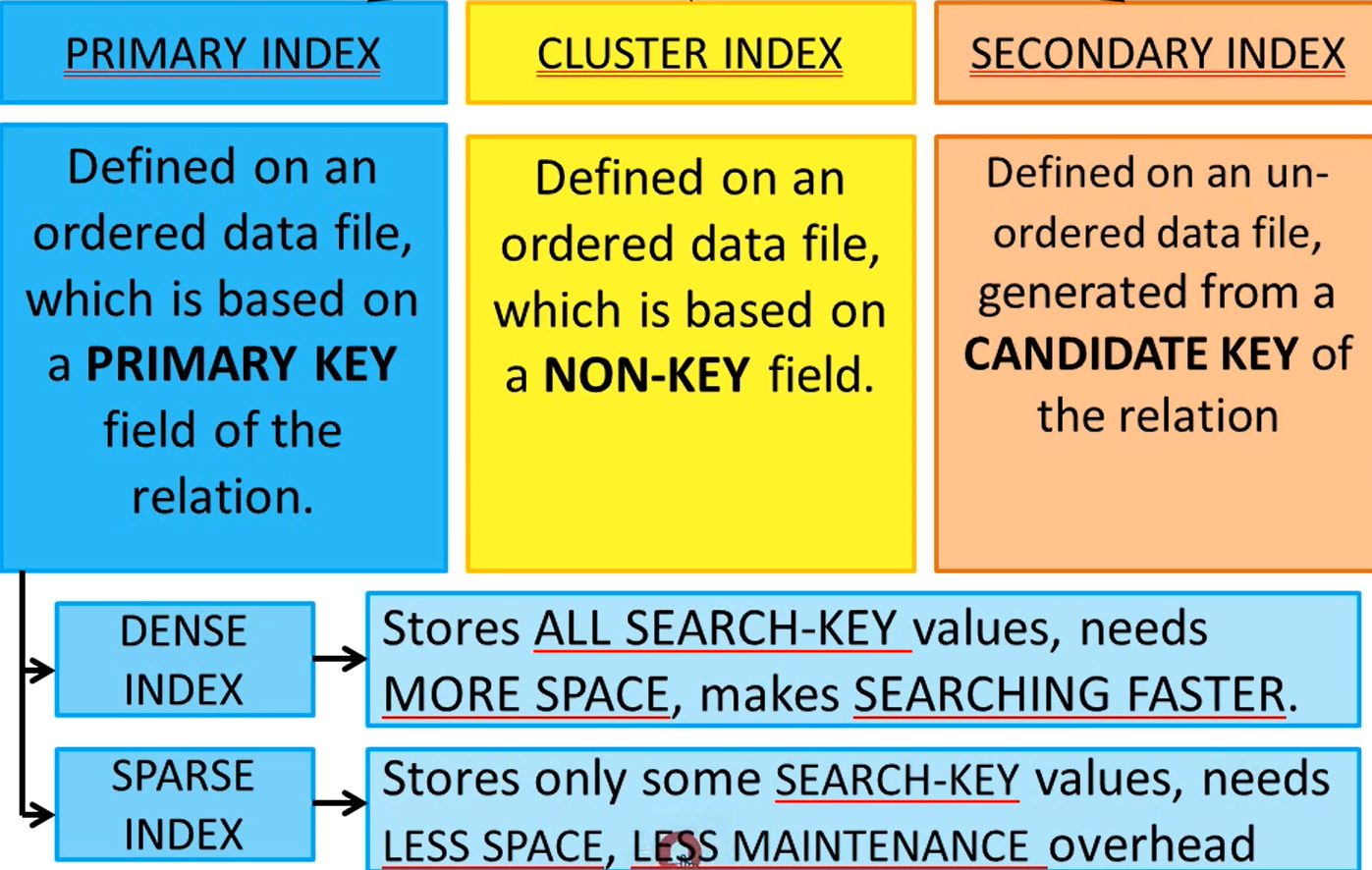




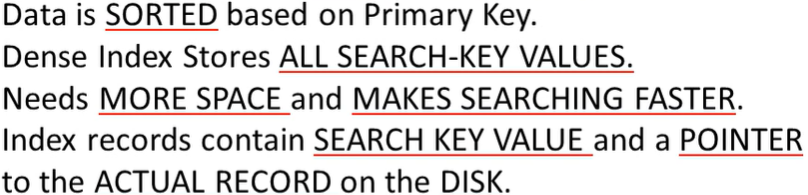
|  |  |
| --- | --- |
| Search Key | Data Reference |



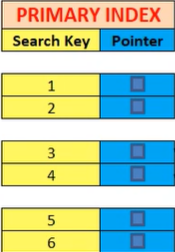
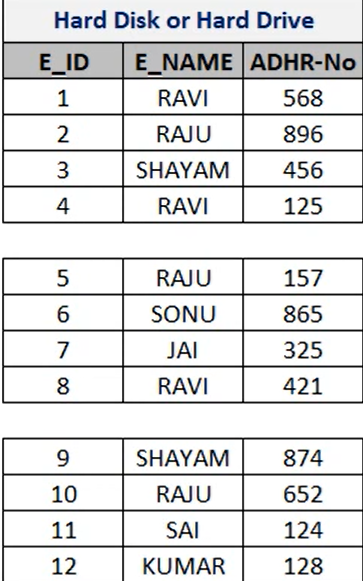
**Types of index**



**Dense rank**



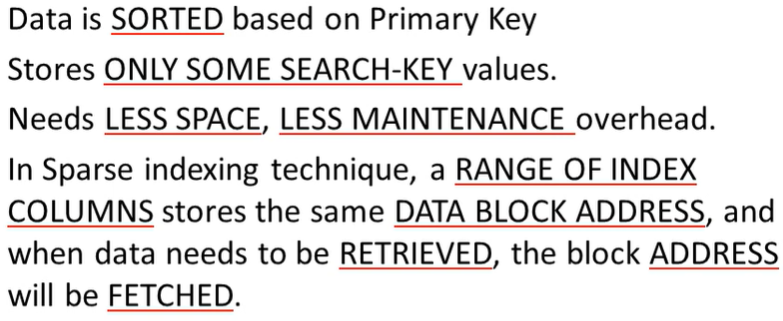
Eg:-

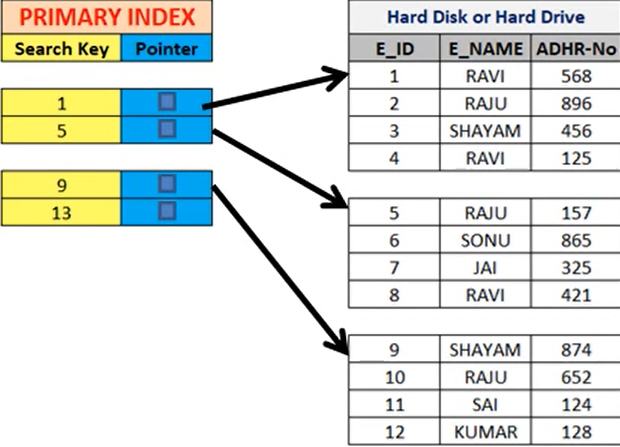
Here E\_ID is primary key of the db table.

So pointer will point the search key which map to E\_ID.

**Sparse Index**

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**Eg**

****

**Sparsing is based on leader of the block ie (sparse the leading anchor of the block)**

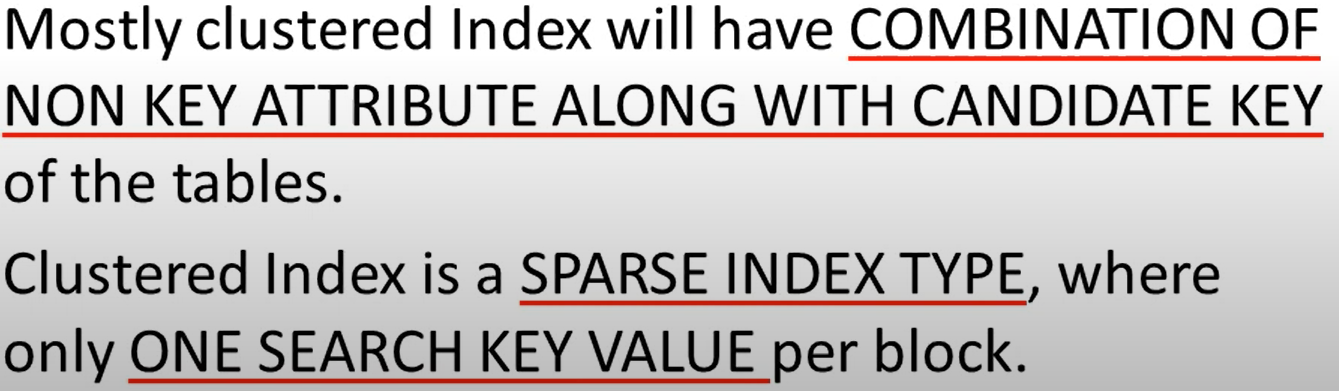
**Clustered INDEX**

**When to use:-**

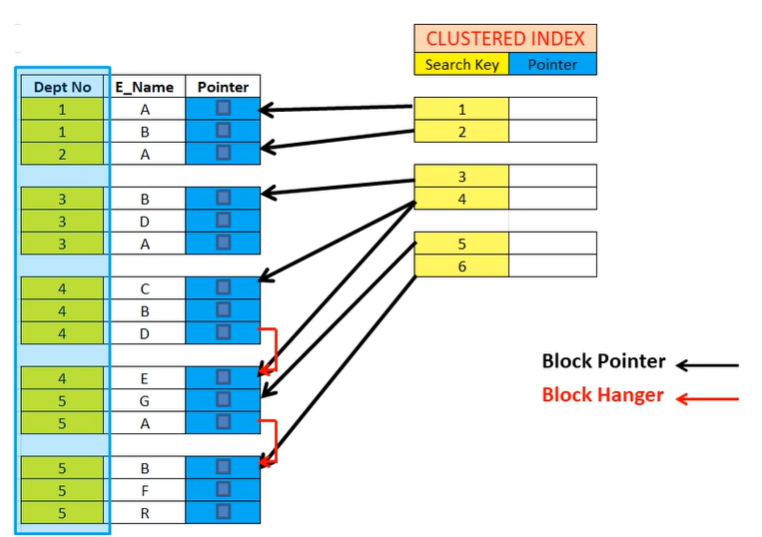
**🡪ordered data**

**🡪has primary key**

**🡪non-key based search**

****

**Eg**

****

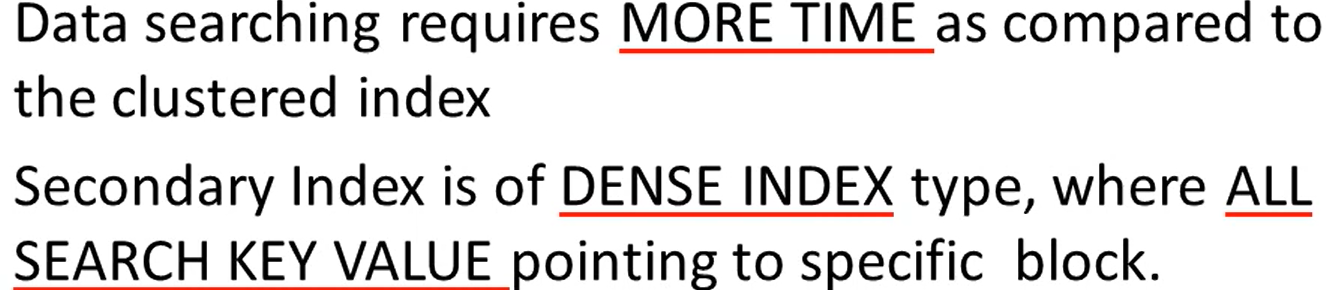
**Secondary Index**

**When to use:-**

**🡪Unordered data**

**🡪Non-key search value**

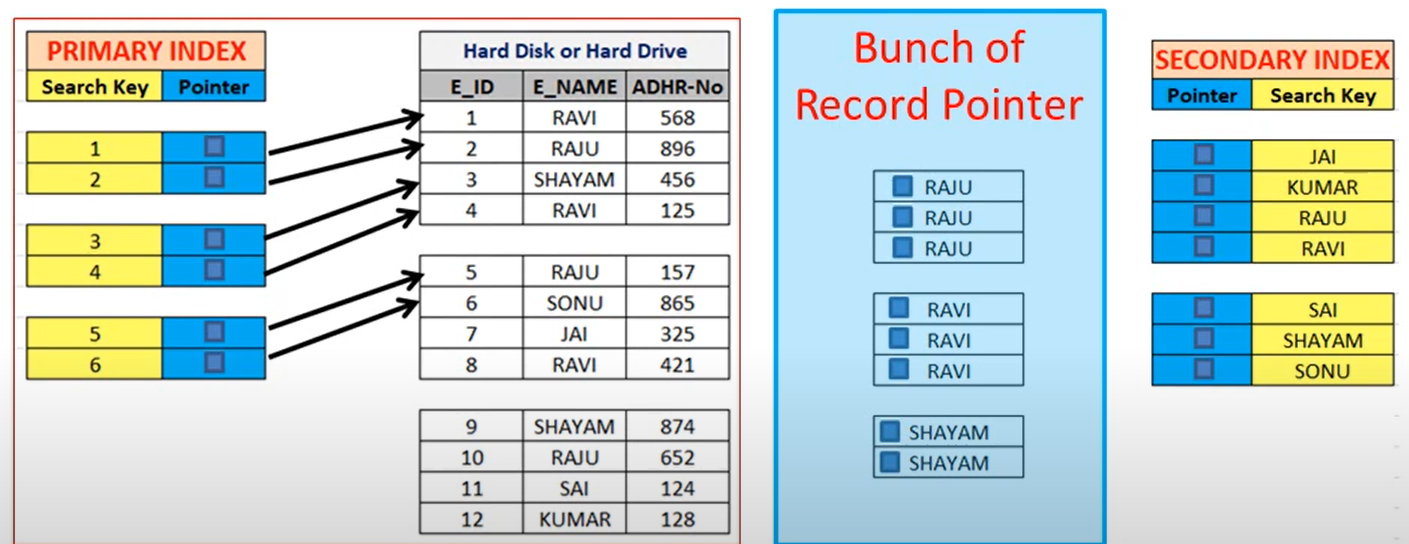
**🡪Already have a primary key**

****

**Eg**

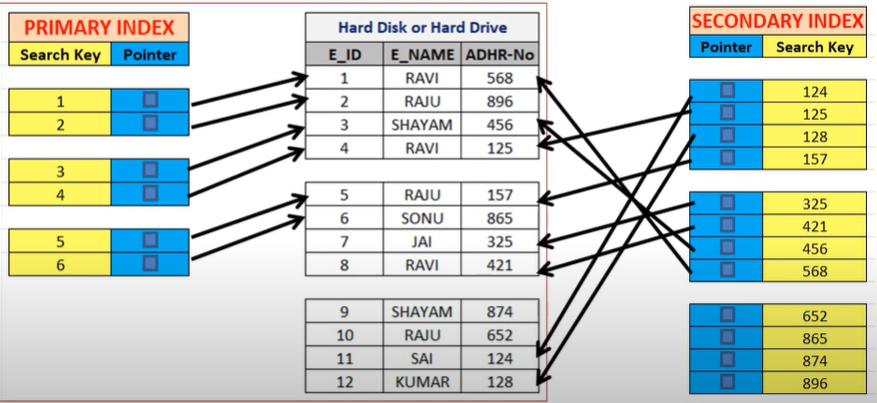
**Based on name which is not a primary key**

**🡪First ordering the name In secondary index**

****

**Based on aadhar number**

**🡪First ordering the aadhar number in secondary index**

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