

FILE ORGANIZATION



Features

The term "File Organization" refers to the way in which Data is stored in a file and, consequently, the methods by which it can be Accessed.

OR

Storing the file in a Certain Order and approach to by which we can Access this Data.

Records can be placed any where in the file or Records may be stored in an ordered way. and there are other approaches as well the by which records can be stored in a file.

Objective of File Organization :-

- 1) Optimal Selection of records :- This Refers that Records should be Accessed as fast as possible.
- ** 2) Easy Transaction :- Any Insert, update or Delete Transaction i.e Operations On Records should be easy.
It should be Quick & Easy and should not HARM Other Records.

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- 3) No Duplicate Record should be induced as a result of Insert, Update or Delete.
- 4) Records should be stored efficiently so that Cost of Storage is minimal: Empty blocks of file / between the Records should be utilized.

There are various methods of "File Organization" and these methods may be efficient for certain types of Access / Selection. Meanwhile, it will turn inefficient for other selections.

So the Developer / programmer has to decide the best suited file organization method depending on his requirement.

Some of File Organizations are :

- Sequential file Organization
- Indexed Sequential file Organization
- Direct / Hash File Organization
- Heap file Organization
- B Tree File Organization
- Cluster File Organization.

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