

* Explain File structure with its type.

A File structure is a combination of representations for data in files.

File structure is also a collection of operations for accessing the data.

File structure enables application to read, write and modify data.

File structures may also help to find the data that matches certain criteria.

There are three methods for Organization's of File structure.

1) Sequential File Organization.

2) Indexed File Organization

3) Random File Organization.

1 Sequential File Organization:

A sequential File Organization is maintain one sequences.

A Sequential File contains records organized by the order.

Order of Sequential File is Fixed.

In this File Organization, sequential file can be read only sequentially.

In this File Organization, sequential file can be written only sequentially.

In this Organization, new records are added at the end of the file.

2 Indexed File Organization:

Indexed File Organization is maintain one record key.

Indexed File Organization contain records by one unique key.

A record key uniquely identifies a record in this Organization.

Each record contains a field that contains the record key.

In this Organization, Indexed File can be read only using record key.

In this Organization, Indexed File can be written only using record key.

When indexed Files are read or written sequentially, the sequence is that of the key values.

3 Random File Organization:

Random File Organization is also called Relative File Organization.

Random File Organization is also known as direct access file.

In this organization, the records are randomly placed.

Random File Organization does not need any sequence or record key.

This File Organization is useful for immediate access to large amount of information.

Random File Organization is used to accessing large database.