

Data Hierarchy



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Data Hierarchy is a Systematic Organization of data mainly in a hierarchical form. Data Organization basically involves Fields, Records, files and so on.

So Different Levels of Data Hierarchy :-

A) Bit : A bit is the smallest unit of data in a computer. A bit has a single binary value either 0 or 1.

B) Character :- It is a single visual object used to represent text, numbers or symbols. and set of characters become characters.

Eg:- K, j, a, 0 = Letters
+, - = Special Symbols
@, %, = Special Symbols.

* One character is equal to 8 bits = 1 bytes

C) Fields : A field is a group of characters or bytes that has some meaning.

Eg:- KAPIL
Ajay
29
8am] Different examples of fields like
it can be any body Name, age
no. etc.]

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D) Records :- Composition of various related fields are called records.

Eg:- Kapil 29 Male 12000
Name + Age + Gender + Salary

These are various fields & combining these become a record.

E) Files:- A combination of various records is called files.

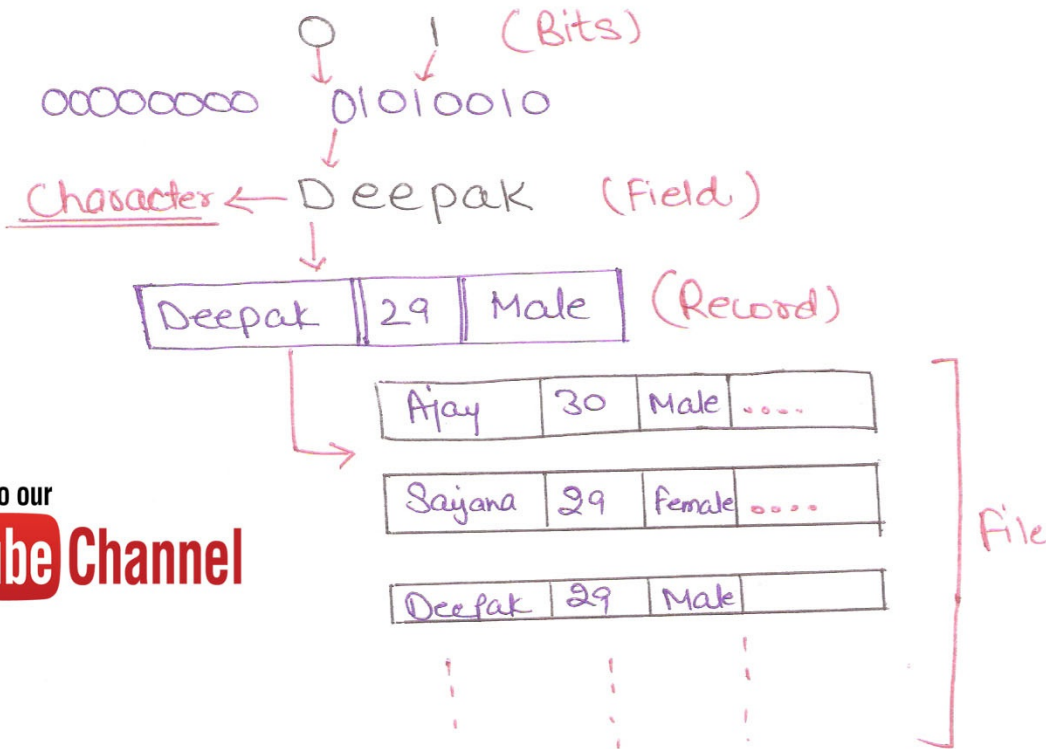
Eg:-

<u>Name</u>	<u>Age</u>	<u>Gender</u>
Ajay	30	M
Sumit	35	M
Rajesh	31	M
Sanjana	29	F

These are various records and combining them becomes a file

F) Database:- A Database is a collection of information that is organized in such a manner so that it can be accessed, managed and updated in future.

A Complete Diagram of Data Hierarchy :-



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