

PROPERTIES OF DATABASE

* Question Comes in mind why we use DATABASE SYSTEMS:-

Ans:- There are 6 important features of DataBases

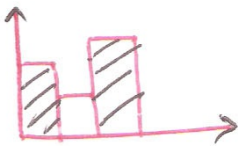
- Completeness
- Integrity
- Flexibility
- Efficiency
- Usability → Redundancy Less

COMPLETENESS : This property ensures that user can access the data they want including ad hoc queries:-

Ad hoc Queries :- They are those Queries which cannot be determine prior to the moment the Query is issued.

Eg:-1) Display Bar chart, pie chart for a vendor and his stocks.

2) Showing plot chart & stack bar chart for an employee

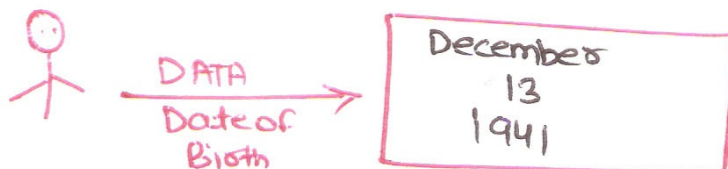


* Integrity :-

Database integrity ensures that Data entered into the Database is Accurate, valid, and Consistent

→ Accurate :- Data Accuracy refers that data values must be right value and must be represented in a consistent manner.

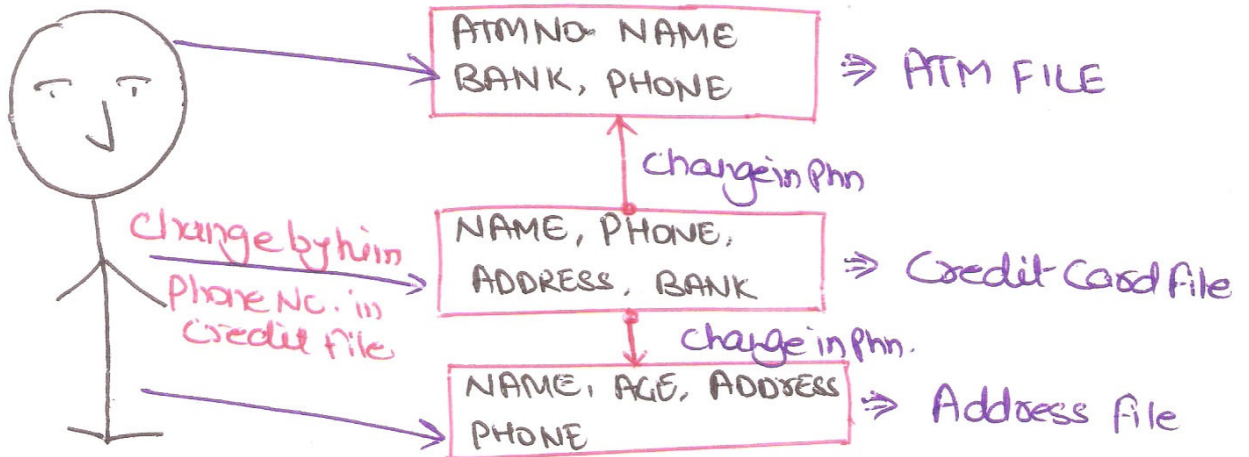
Eg



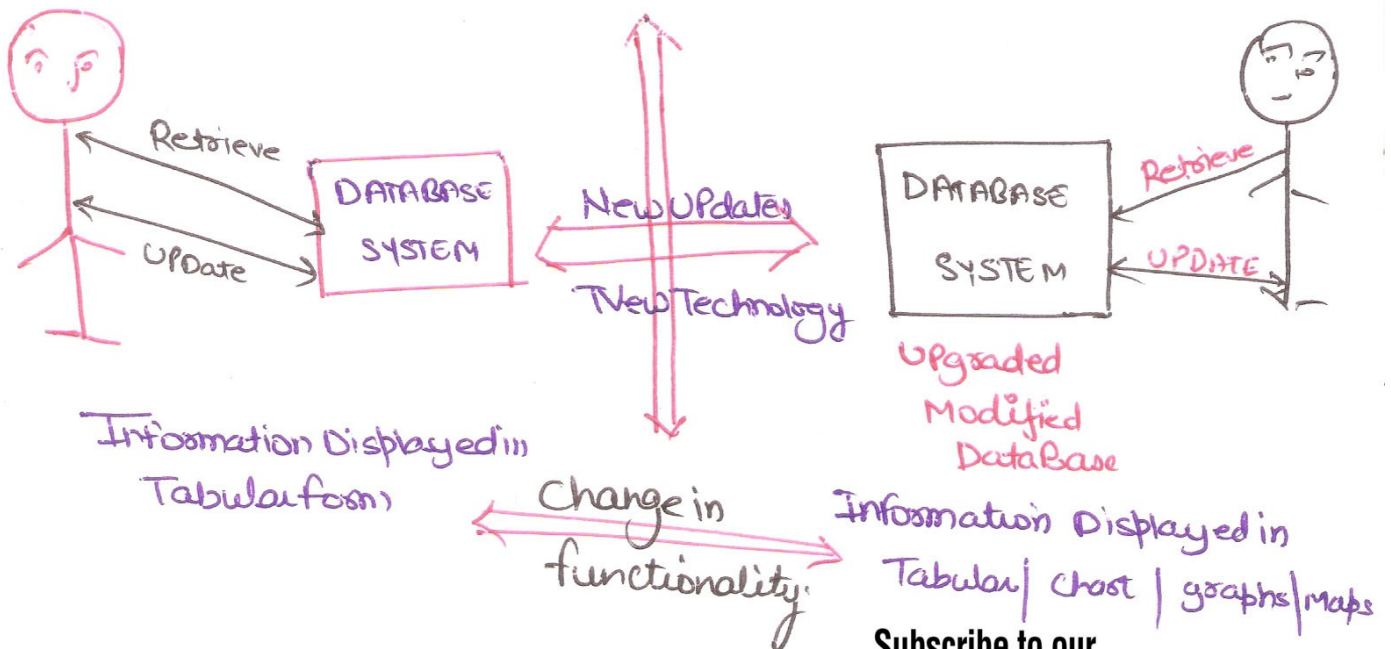
VALID :- It refers Data should be correct like Age of person 200 → Not valid

→ CONSISTENT :- Consistent of Data or

Consistency of DATA refers that if a person changes his phone no. so it should be changed every where in Database where his Telephone data is saved.



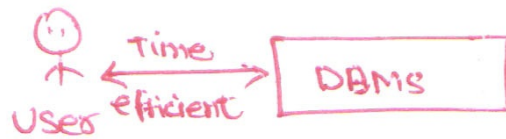
FLEXIBILITY: It is ability of upgrading or changing the functionality of database.



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EFFICIENCY:- It ensures that should not wait for long time when accessing data.



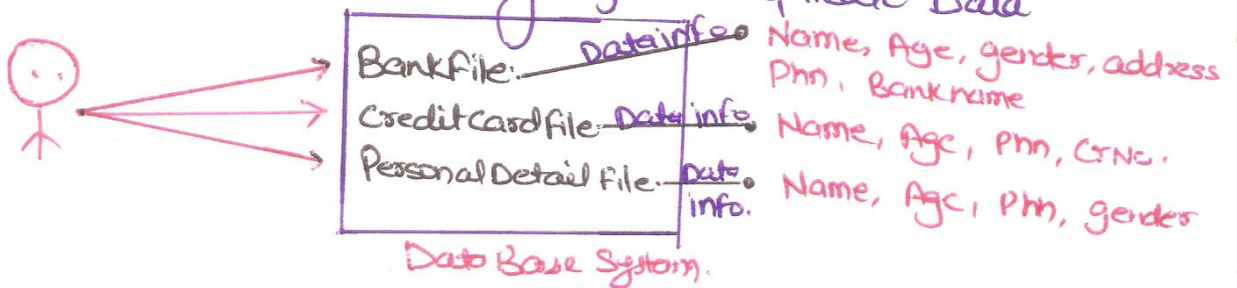
Database should be able to perform effectively

USABILITY:- It ensures that data can be accessed and manipulated in ways which matches the user requirements.

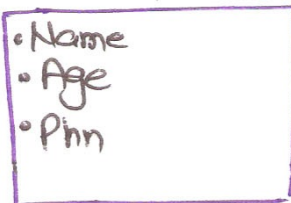


Using Data according to requirements like showing it in Tabular form, Chart form, operations can be performed like update, delete, insert

REDUNDANCYLESS:- Redundancy refers duplicate Data



Here Bankfile
CreditCard
Personal detail



Redundant Data
(Same info)



So good Databases are Redundantless:-