- · Collection of information Stored in the database at a particular time (moment) is called database instance.
- · The overall design of the database is called database Schema.

There are three types of Schama

- 1. Physical Schema
- 2. Conceptual Schemo
- 3. External Schema
- · Physical Schema describes the database design at physical level. It specifies additional Storage details and also summarises how the relations described in the Conceptual Schema are actually Stored on Secondary devices such as disks and tapes.

· Conceptual Schema is concerned about all entities their attributes and their relationship. ie it describes the stored data in terms of data model of DBMs.

· external schoma describes each external view. It is users view of database.

* Dutabase System Concepts and Architecture Data Abstraction [view] [view2] -- Iviewn View level Enternal level logical deul J conceptual devol Physical level Internal level 1. Physical level: Lowert level of abstraction and it describes how the date are actually stored. The Physical describes complex low-level data Structures in deteril. 2. Logical level! - It describes what date are Stored in the database, and what relationship exist among those data. 3. View level! This is the highest level of abstraction describes only part of the entire database.

2+ Simplify the interaction with the system. The system may provide many views for the same database.

Data Independance
The ability to modify a (2) Schema definition in one level without offecting a Schema definition in the next shigher Level is called Date independence types !-O Physical Dorta Independence (2) Logical Dorta Independence Physical data independence indicates that the physical Storage Structure or devices und for storing the data could be changed without necessitating a change in the conceptual level or any of the external views. Similarly Changes to the Conceptual Schema such as the addition and deletion of entities, addition and deletion of attributes or relationship must be possible without changing existing external schemas.

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References:

- Korth, Silbertz, Sudarshan," Database Concepts", McGraw Hill.
- Date C J, " An Introduction to Database Systems", Addision Wesley.
- Bipin C. Desai, "An Introduction to Database Systems", Gagotia Publications.
- Majumdar & Bhattacharya, "Database Management System", TMH.
- · Ramkrishnan, Gehrke, " Database Management System", McGraw Hill.