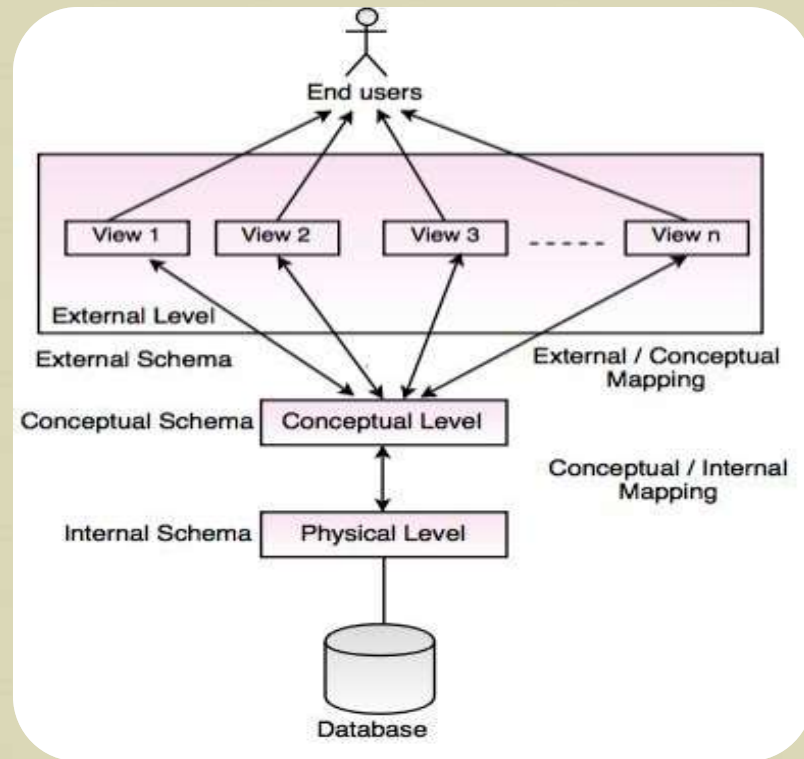


3 Level Architecture



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Architecture of DBMS

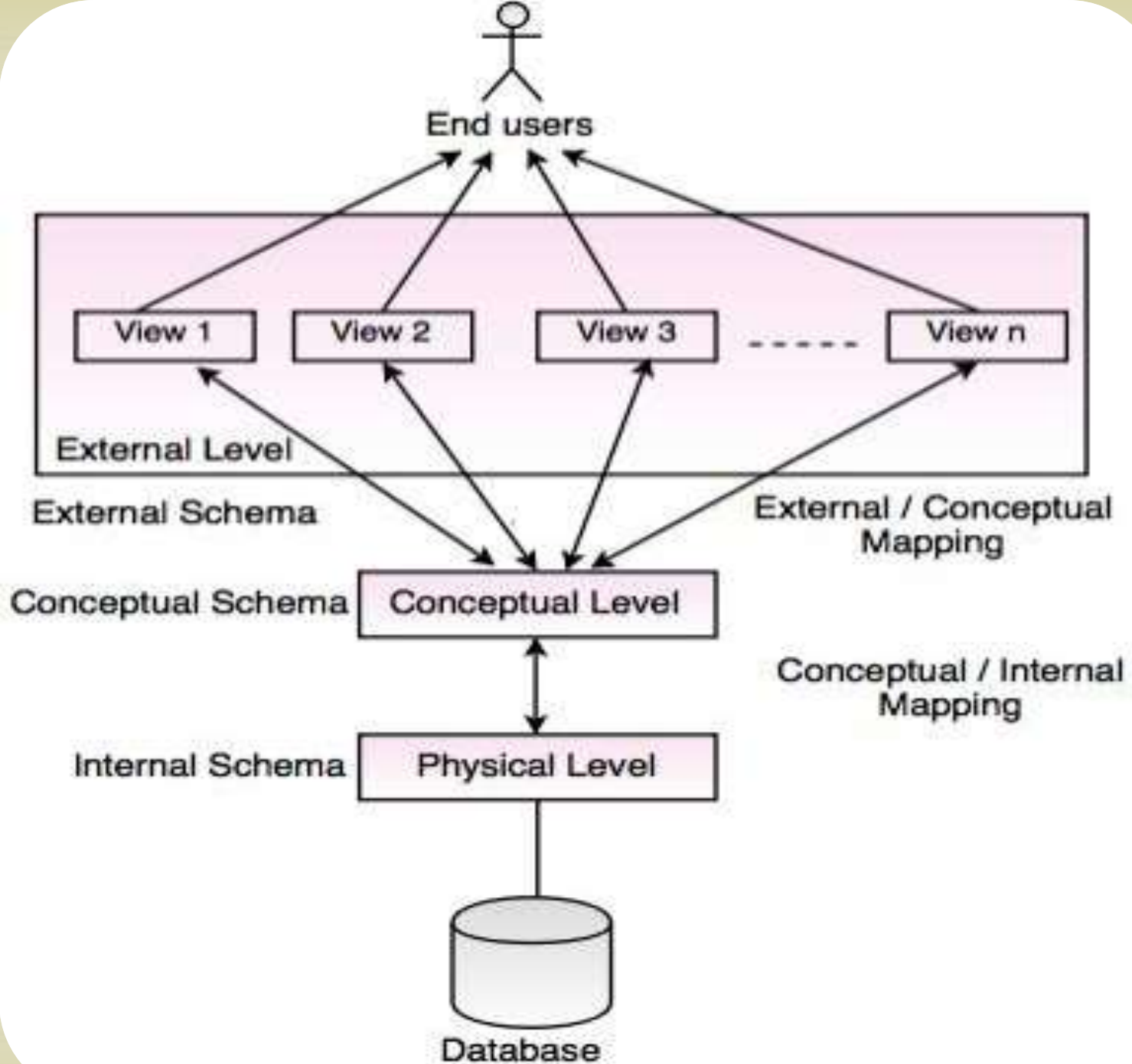


∞ Three levels or layers of DBMS Architecture are:

∞ External Level

∞ Conceptual Level

∞ Internal Level



Internal Level



- ❧ Physical representation of the DB on the computer.
- ❧ How the data is stored in the database?
- ❧ At lowest level, it is stored in the form of bits with the physical addresses on the secondary storage device.
- ❧ At highest level, it can be viewed in the form of files.
- ❧ The internal schema defines the various stored data types. It uses a physical data model.

Conceptual Level



- ❧ Conceptual level describes the structure of the whole database for a group of users.
- ❧ It is also called as the data model.
- ❧ Conceptual schema is a representation of the entire content of the database.
- ❧ These schema contains all the information to build relevant external records.
- ❧ It hides the internal details of physical storage.
- ❧ It Represents:
 - ❧ entities, attributes, relations

External Level



- ❧ The user's view of the database.
- ❧ Consists of a number of different external views of the DB.
- ❧ Describes part of the DB for particular group of users.
- ❧ The user is not aware of the existence of any attributes that are missing from the view.
- ❧ It permits users to access data in a way that is customized to their needs, so that the same data can be seen by different users in different ways, at the same time.

Thank
You!