Motivation

❖ When a DFD is developed we have knowledge of all data elements required by an application.

❖ Data dictionary lists all data elements but does not say anything about relationships between data elements.

❖ Relationships are needed to logically group data elements into related sets or tables.

❖ Such an organization

    o Reduces data duplication

    o Simplifies adding, deleting and updating data

    o Simplifies retrieval of desired data

❖ Logical databases give conceptual model..

❖ Logical databases need to be stored in physical media such as a hard disk for use by applications.

❖ A system is needed to map the logical database to a physical medium, which is transparent to an application program..

❖ Database management systems achieve this purpose.