

## Q12 Data Modeling

Ans It is technique for organising and documenting a system's data. It is a process of identifying the types of entity in a situation, relationships between those entities and relevant attributes of these entity. It considers data independent of processing that transforms the data. In this, a data is produced that is used to document and analyse the data requirement for a new system.

### • Entity-relationship diagram

It is detailed logical representation of the data of an organisation. An entity-relationship diagram depicts "data at rest" while DFD shows "data in motion".



An ERD is more detailed picture of data stores, independent of the processes performed with those data stored. ERD is a "data-oriented" model while DFD is a process-oriented model.

It aims to create a conceptual schema for data from the user's perspective.