In a data warehouse or a data mart, there are three areas of where data integrity needs to be enforced:

Data Integrity:

Top Down Approach: In top-Down Approach, data models are created by understanding and analyzing the business requirements.

In Bottom Up approach, Data models are created from existing databases, which has no data models. IDEF1X is the common notation used in creating data models since it is more descriptive.

Data Engineers, data Modeller and Data Architect are the common titles for those who are involved in data modeling.

Strategic data modeling: This is part of the creation of an information systems strategy, which defines an overall vision and architecture for information systems is defined. Information engineering is a methodology that embraces this approach.

Data modeling during systems analysis: In systems analysis logical data models are created as part of the development of new databases.

Bottom-up models or View Integration models are often the result of a reengineering effort.

Top-down logical data models, on the other hand, are created in an abstract way by getting information from people who know the subject area.

conceptual data model (or semantic data model) of a system.

-------------------------