

# Data Catalog and Application Inventory Logical Data Model

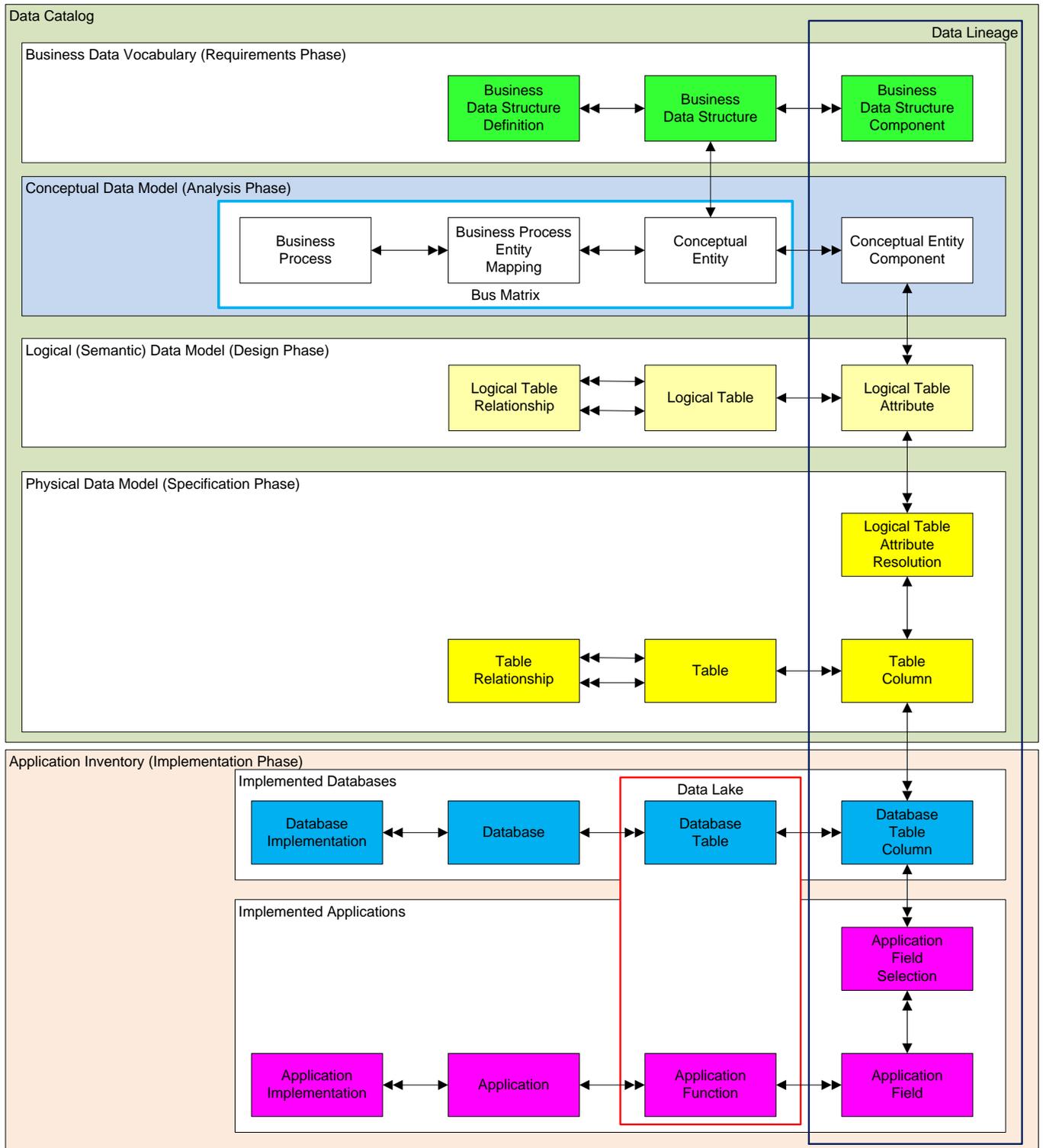
## 1. INTRODUCTION

When using the Database Development Life Cycle there is a lot of information (meta data) collected about the business data terms. This information is not well documented in the standard documents of the Database Development Life Cycle.

To make this information available to the business, it should be part of the Information Technology management infrastructure, i.e., the data catalog, database and application inventory.

The data catalog can help the business identify issues with the vocabulary, i.e., synonyms and homonyms. The issue can arise when the definition of the business term is unclear or the business units have different meanings for the same term or use different terms for the same concept. For example, the concept of worker can be labeled employee, associate, etc. These labels could identify synonyms or subtypes depending on the understanding of the business unit.

## 2. DATA CATALOG LOGICAL DATA MODEL



### 3. OBSERVATIONS

The data model shows us what information needs to be collected during each phase of the DDLC and gives us insight into how the data catalog is related to discussions about:

1. The bus matrix – in the analysis phase of the DDLC. The bus matrix is an organization of the business organization chart, the list of business processes (applications) and the conceptual data model.
2. The data lineage – is a data governance concern. The data lineage is the relationship between the detailed meta data in each phase in the DDLC. The data lineage is shown as a column on the right-hand side of the data model.
3. The data lake – in the implementation phase of the DDLC. The data lake is presented as an alternative solution to the enterprise logical data model laid out by the DDLC. The data lake uses existing implemented data structures to create an enterprise-wide collection of data. There is no guarantee that the existing applications and data structures are based on the business' enterprise logical data model