Data Management Body of Knowledge
Overview of the DMBOK2
CONTENT

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Why the DMBOK?

- Data Management Body of Knowledge (DAMA-DMBOK Guide) is a collection of processes and best practices.
- Contains generally accepted as best practices and references for each Data Management discipline.
- Data Management (DM) is an overarching term that describes the processes used to plan, specify, enable, create, acquire, maintain, use, archive, retrieve, control, and purge data.
- These processes overlap and interact within each data management knowledge area.
What is the purpose of the DMBOK

• The current DM environment can be a confusing combination of terms, methods, tools, opinion, and hype.

• To mature this discipline, DAMA International’s Guide to the Data Management Body of Knowledge (DAMA-DMBOK) provides concepts and capability maturity models for the standardization of:
  • Activities, processes, and best practices
  • Roles and responsibilities
  • Deliverables and metrics
  • A maturity model

• Standardization of data management disciplines will help data management professionals perform more effectively and consistently.
DMBoK 2 – Knowledge Areas

Figure 1. The DAMA-DMBOK2 Guide Knowledge Area Wheel
Data Management Knowledge Areas

The 11 Data Management Knowledge Areas are:

• **Data Governance** – planning, oversight, and control over management of data and the use of data and data-related resources. While we understand that governance covers ‘processes’, not ‘things’, the common term is Data Governance, and so we will use this term.

• **Data Architecture** – the overall structure of data and data-related resources as an integral part of the enterprise architecture

• **Data Modeling & Design** – analysis, design, building, testing, and maintenance (was Data Development in the DAMA-DMBOK 1st edition)

• **Data Storage & Operations** – structured physical data assets storage deployment and management (was Data Operations in the DAMA-DMBOK 1st edition)

• **Data Security** – ensuring privacy, confidentiality and appropriate access to PII, PHI and an individuals private data. Ensuring network security as well
Data Management Knowledge Areas

- **Data Integration & Interoperability** – acquisition, extraction, transformation, movement, delivery, replication, federation, virtualization and operational support (a Knowledge Area new in DMBOK2)

- **Documents & Content** – storing, protecting, indexing, and enabling access to data found in unstructured sources (electronic files and physical records), and making this data available for integration and interoperability with structured (database) data.

- **Reference & Master Data** – managing shared data to reduce redundancy and ensure better data quality through standardized definition and use of data values.

- **Data Warehousing & Business Intelligence** – managing analytical data processing and enabling access to decision support data for reporting and analysis.

- **Metadata** – collecting, categorizing, maintaining, integrating, controlling, managing, and delivering metadata.

- **Data Quality** – defining, monitoring, maintaining data integrity, and improving data quality.
How do the knowledge areas interact

• Interaction occurs through Data Governance processes
  • Data Governance is recognized as the coordinating knowledge area
  • DG processes and resources are leveraged across knowledge areas
  • Common roles and responsibilities can be leveraged across area
  • Common DG technology & Business Glossary
• Example: Reference & Master Data Governance:
  • Determining systems/data of record
  • Determining and managing business rules
  • Exception handling
  • Metrics
  • Government Regulations and Industry Standards
Using the DMBoK

• The chapter for each knowledge area provides
  • Activities, processes, and best practices
  • Roles and responsibilities
  • Deliverables and metrics
  • A maturity model

• The objective is to provide best practices and standards that can help organizations increase their overall maturity in DM
Summary

• 2017 version has expanded DM to 11 Knowledge Areas (from 10)
• Data Governance has a greater focus and identified interactions in each Knowledge Area
• Each knowledge area identifies
  • Activities, processes, and best practices
  • Roles and responsibilities
  • Deliverables and metrics
  • A maturity model
• DMBoK can be purchased at https://technicspub.com/dmbok/
• Stay calm and allow your DG program to prosper