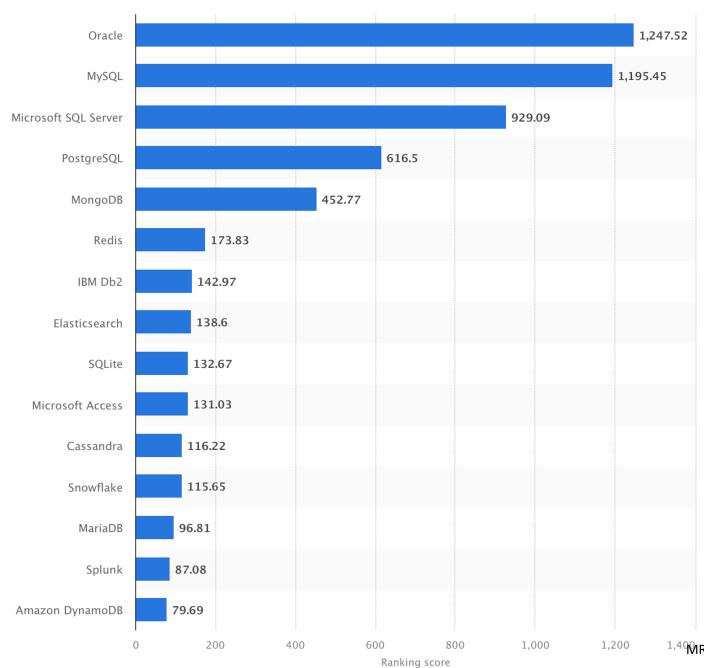
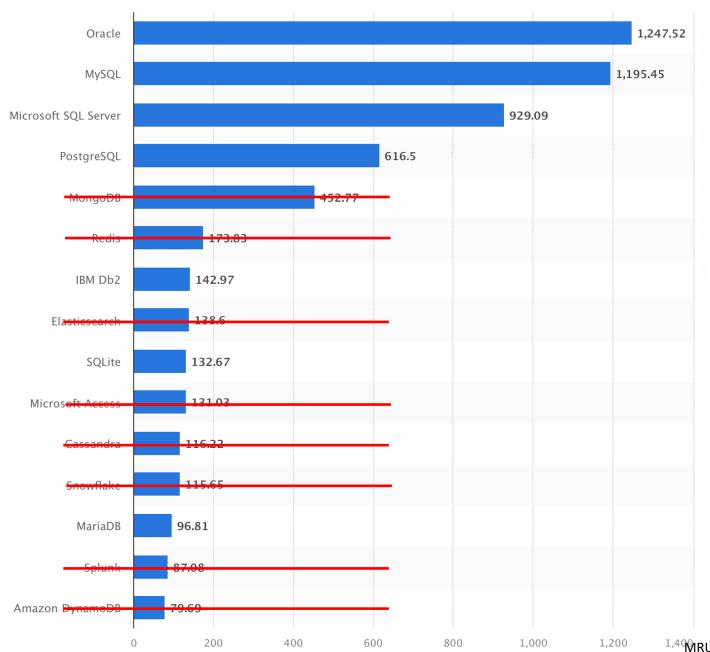
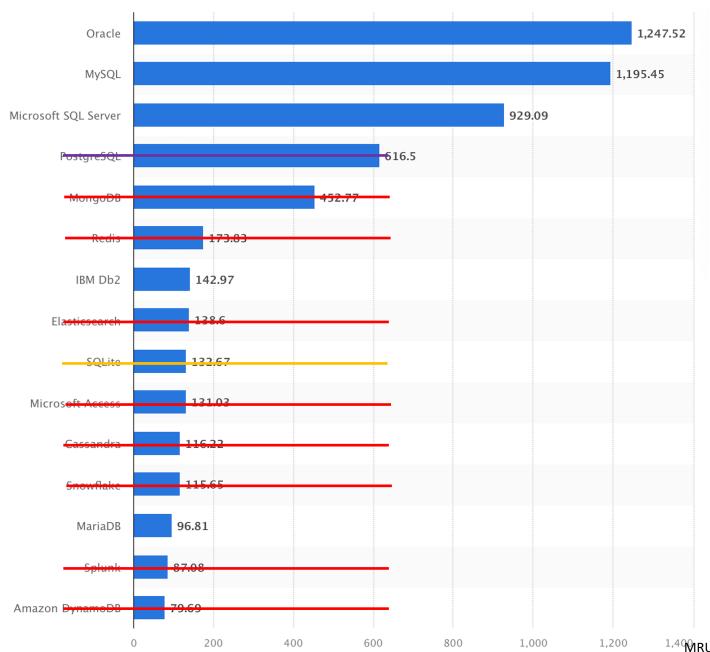
Databases Environment

- DBs Market
- Roles & responsibilities
- Standards
- Metrics & Optimization

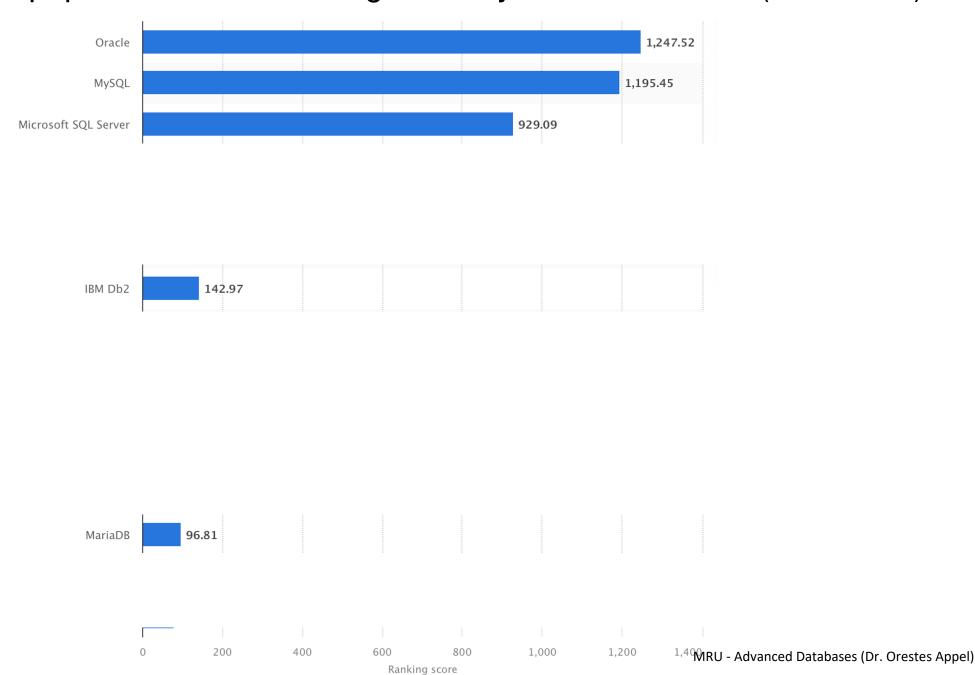




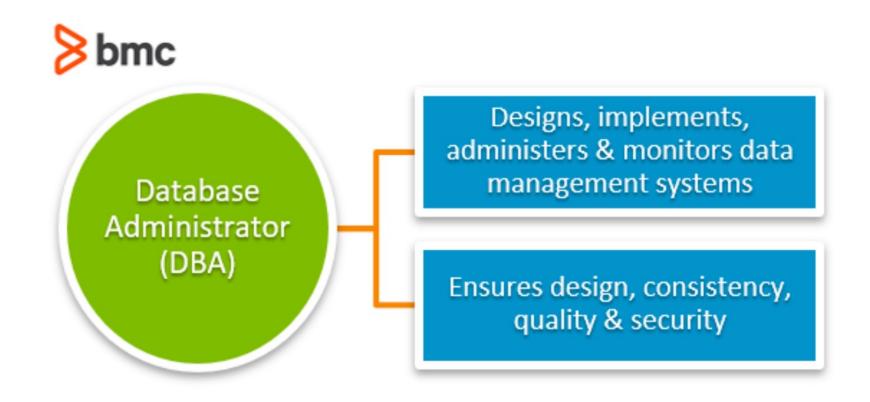
Ranking score



Ranking score



What does a DBA do?





Day2Day Activities of DBA as per ITIL® Service Operation

The day-to-day activities that a DBA performs as outlined in ITIL[®] Service Operation include:

- Creating and maintaining database standards and policies
- Supporting database design, creation, and testing activities
- Managing the database availability and performance, including incident and problem management
- Administering database objects to achieve optimum utilization
- Defining and implementing event triggers that will alert on potential database performance or integrity issues
- Performing database housekeeping, such as tuning, indexing, etc.
- Monitoring usage, transaction volumes, response times, concurrency levels, etc.
- Identifying reporting, and managing database security issues, audit trails, and forensics
- Designing database backup, archiving, and storage strategy

How to Organize & Standardize DM Tasks

- ITIL
- DAMA
- Others

Roles & Responsibilities: ITIL

- The Information Technology Infrastructure Library (ITIL) is a set of detailed practices for IT activities such as IT service management (ITSM) and IT asset management (ITAM) that focus on aligning IT services with the needs of the business.
- ITIL describes processes, procedures, tasks, and checklists which are:
 - neither organization-specific, nor
 - technology-specific but can be applied by an organization toward strategy, delivering value, and maintaining a minimum level of competency.
- It allows the organization to establish a baseline from which it can plan, implement, and measure.
 - It is used to demonstrate compliance and to measure improvement.

Roles & Responsibilities: ITIL

Responding to growing dependence on IT, the UK Government's Central Computer and Telecommunications Agency (CCTA) in the 1980s developed a set of recommendations designed to standardize IT management practices across government functions, built around a process model-based view of controlling and managing operations.

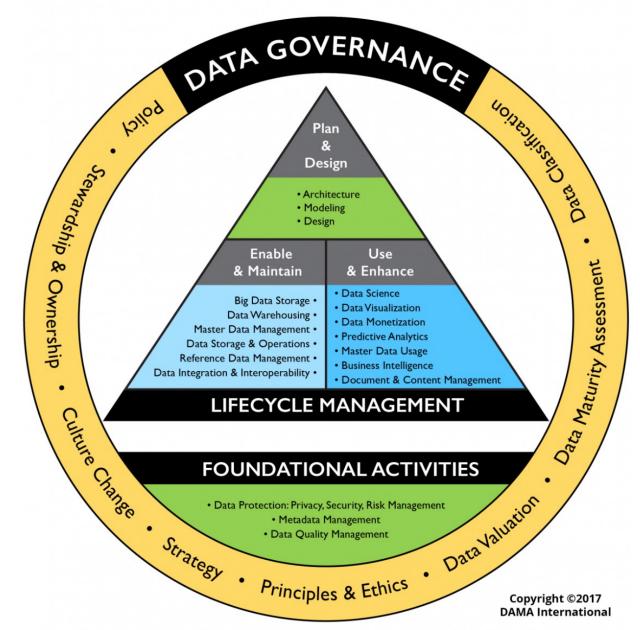
- In 1989, ITIL was released. In April 2001, the CCTA was merged into the Office of Government Commerce (OGC), an office of the UK Treasury.[4]
- In 2001, ITIL Version 2 was released.
- In May 2007, ITIL Version 3 was released, consisting of 26 processes and functions, now grouped into only 5 volumes, arranged around the concept of Service lifecycle structure.
- In July 2011, ITIL 2011 was released.
- In 2013, ITIL was acquired by AXELOS, a joint venture between Capita and the UK Cabinet Office.
- In February 2019, ITIL version 4 was released. The main changes were:
 - to consider end-to-end Service Management from holistic and value-centric perspectives
 - to align with philosophies such as Agile, DevOps, and Lean, and
 - to reduce the emphasis on IT Service Management in favor of general Service Management.
- In June 2021, PeopleCert completed the acquisition of Axelos.

The Data Management Association (DAMA)

The Data Management Association (DAMA) is a non-profit and vendor-independent association of business and technical professionals that is dedicated to the advancement of data resource management (DRM) and information resource management (IRM).

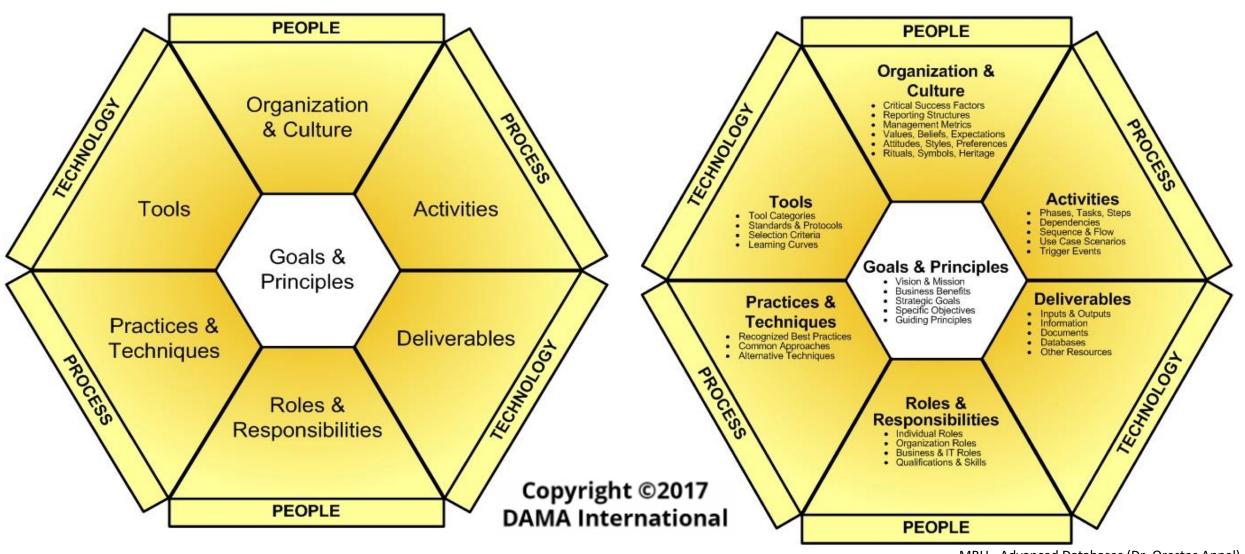


DAMA: Top Wheel



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DAMA: Environmental Elements



DAMA: Guide Knowledge Area Wheel

