Section 1: Week 1: Database Bibliography

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Bibliography

The growth of data creation from sources such as IoT, Cloud, Big Data, and Mobile (ICBM) is increasing at an exponential pace. This explosive volume of information is forming in different shapes, with varying degrees of structure. Traditional database patterns and practices are unable to manage these data sets efficiently, which is driving enterprise environments to invest in new technologies. Merely adding new widgets to the network topology will not solve the challenges, and existing business processes will also need a revision. Through a combination of these ideas, enterprises can evolve their data pipelines and unlock the insights into more agile data-driven decisions.

# Business Intelligence Tomorrow (2019)

To understand the landscape of future Business Intelligence systems, one needs to look at the challenges of today (Harper, 2019). Harper proposes investment areas into (1) metadata management, semantic understanding, data catalog, data modeling, (2) Natural Language Processing, and (3) Edge computing.

The first aspect deals with the Data Lifecycle Management of ICBM data and its operationalization. Storage prices have decreased significantly, which has led to numerous businesses collecting vast pools of unstructured dark data. One of the principal inhabitants for these businesses is a lack of Information Governance, which includes classification, controls, identification, and monitoring (Ajis & Baharin, 2019). Systems for organizing the data provided in a standardized manner, then data scientists can begin exploring the data and coming up with operational insights.