

# Data Analysis For Database Design

Database design is the organisation of data according to a database model. A designer determines what data must be stored and how the data elements interrelate. With this information, they can begin to fit the data to the database model. Data analysis is a process of inspecting, cleansing, transforming, and modeling data with the goal of discovering useful information, informing conclusions, and supporting decision-making. Data analysis has multiple facets and approaches, encompassing diverse techniques under a variety of names, while being used in different business, science, and social science domains.

What is a database? The hierarchical data model, the network data model, the relational data model - the relation - keys - relationships - referential integrity.

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Normalization. When designing a database, one important concept to understand is normalization. In simple terms, to normalize a database means to design it in a way that: 1) reduces duplication of data between tables and 2) gives the table as much flexibility as possible.

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