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Top-down design starts by identifying the data sets and then defines the data elements for each of those sets **Involves the identification of different entity types and the definition of each entity's attributes **Bottom-up design first identifies the data elements (items) and then groups them together in data sets **First defines attributes, and then groups them to form entities **CENGAGE **CENGAGE** **CENGAGE** **CENGAGE** **Top-down design starts by identifying the data sets and then defines the data elements (items) and then groups them together in data sets **Top-down design starts by identifying the data sets and then defines the data elements (items) and then groups them together in data sets **Top-down design starts by identifying the data sets and then defines the data elements (items) and then groups them together in data sets **First defines attributes, and then groups them to form entities **Top-down design starts by identifying the data sets and then definition of each entity's attributes. **Top-down design starts by identifying the data sets and then definition of each entity's attributes. **Top-down design starts by identifying the data sets and then definition of each entity's attributes. **Top-down design starts by identifying the data sets and then definition of each entity's attributes. **Top-down design starts by identifying the data sets and then definition of each entity's attributes. **Top-down design starts by identifying the data sets and then definition of each entity's attributes. **Top-down design starts by identifying the data sets and then definition of each entity's attributes. **Top-down design starts by identifying the data sets and the definition of each entity's attributes. **Top-down design starts by identifying the data sets and the definition of each entity's attributes. **Top-down design starts by identifying the data sets and the definition of each entity's attributes. **Top-down design starts by identifies the data elements (items

Centralized versus Decentralized Design Centralized design: process by which all database design decisions are carried out centrally by a small group of people Suitable in a top-down design approach when the problem domain is relatively small, as in a single unit or department in an organization Decentralized design: process in which conceptual design models subsets of an organization's database requirements, which are then aggregated into a complete design Such modular designs are typical of complex systems with a relatively large number of objects and procedures

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