



# SQL: Concepts

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**Todd Bacastow**  
**IST 210: Organization of Data**



# Design questions

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- How many entities are there?
- What are the major entities?
- What are the attributes of each entity?
- Is there a unique identifier for one or more of these entities?
- How are the entities related to each other?
- What queries and/or reports will be produced with the data?



# Design Process

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- The entity becomes a table
- The entity name becomes the table name
- Each attribute becomes a column
- The instance identifier becomes the primary key
- For the one to many relation, an additional column is added to the table containing the foreign key