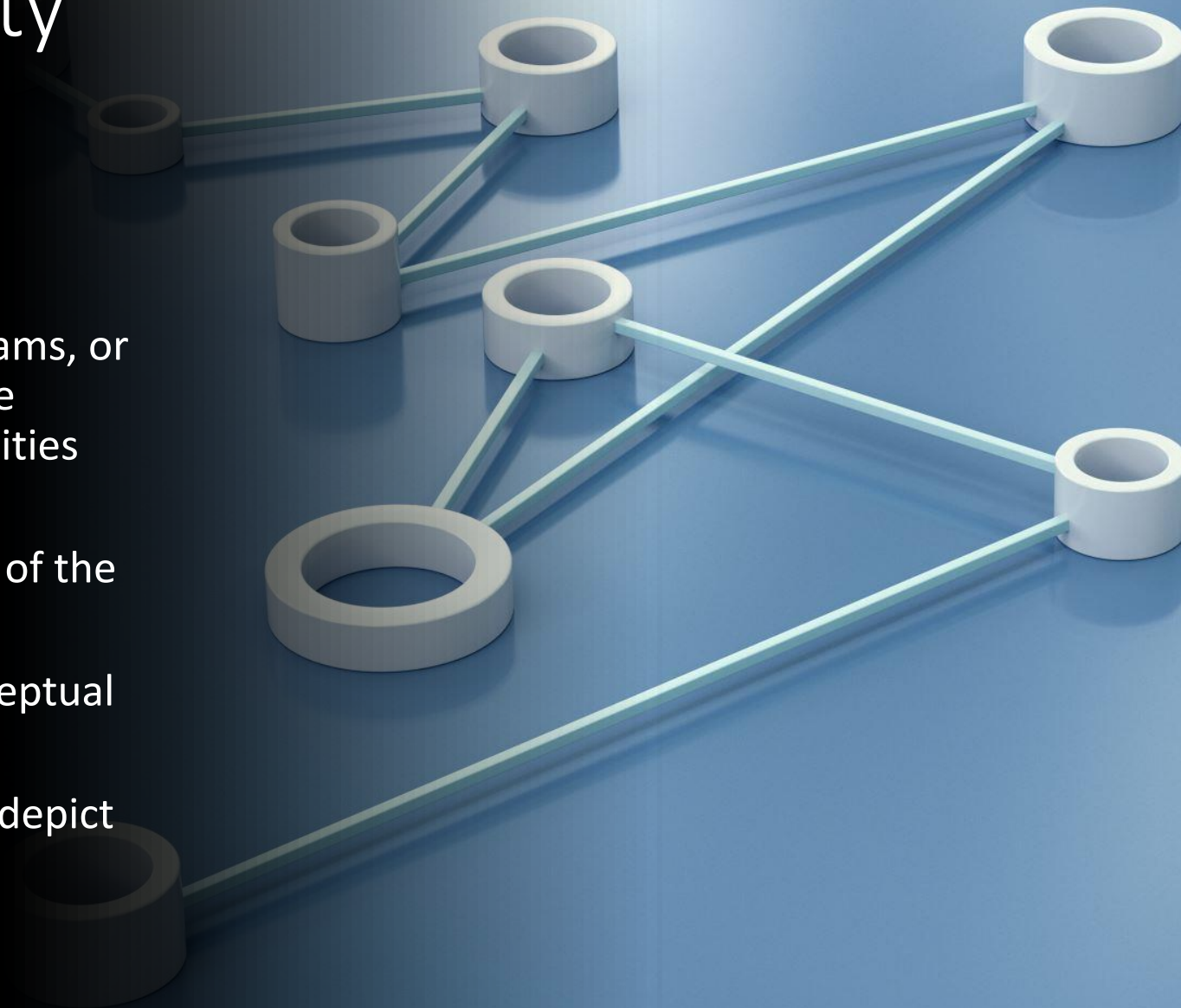


# Entity Relationship Diagrams

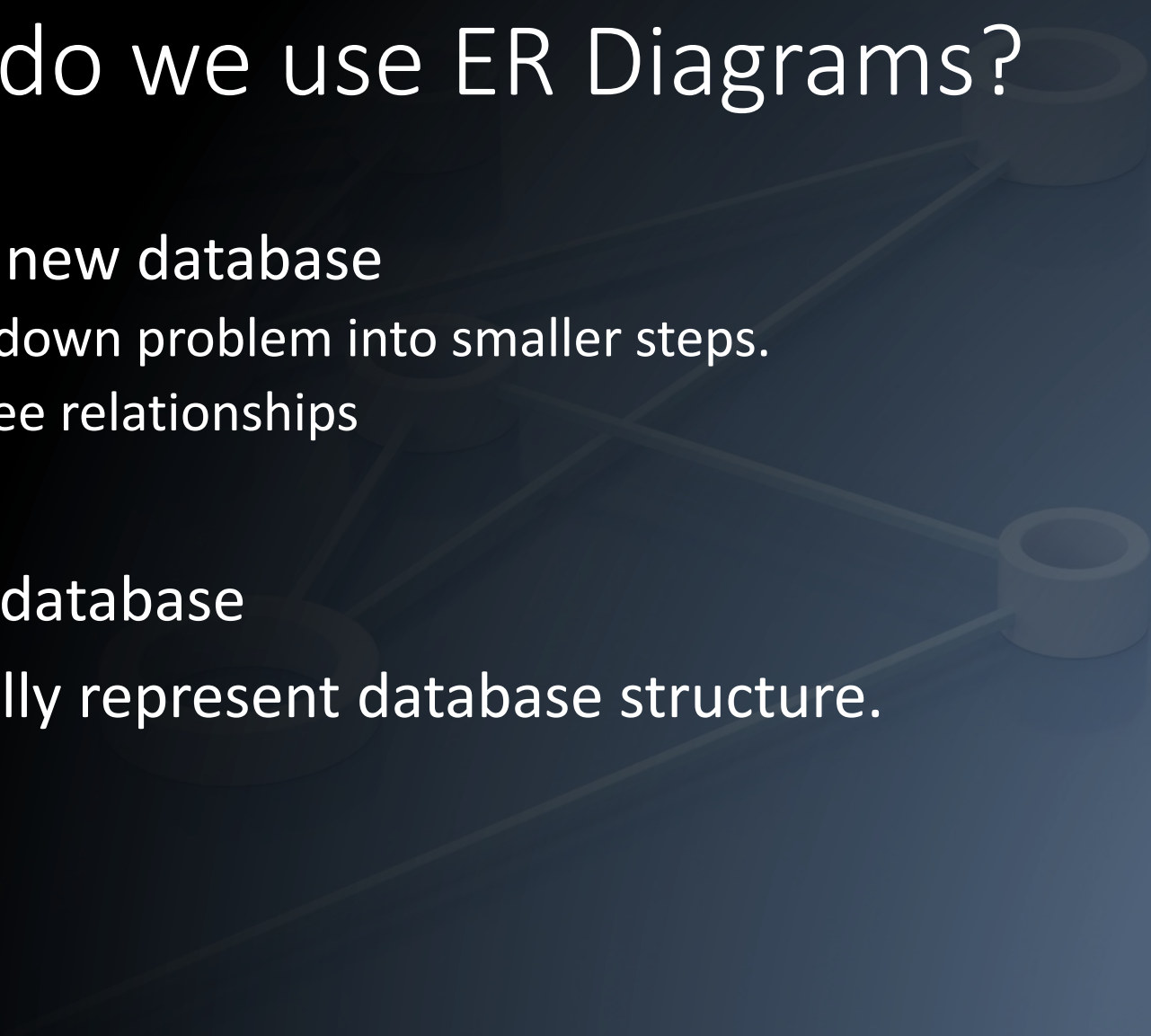
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# What are Entity Relationship Diagrams?

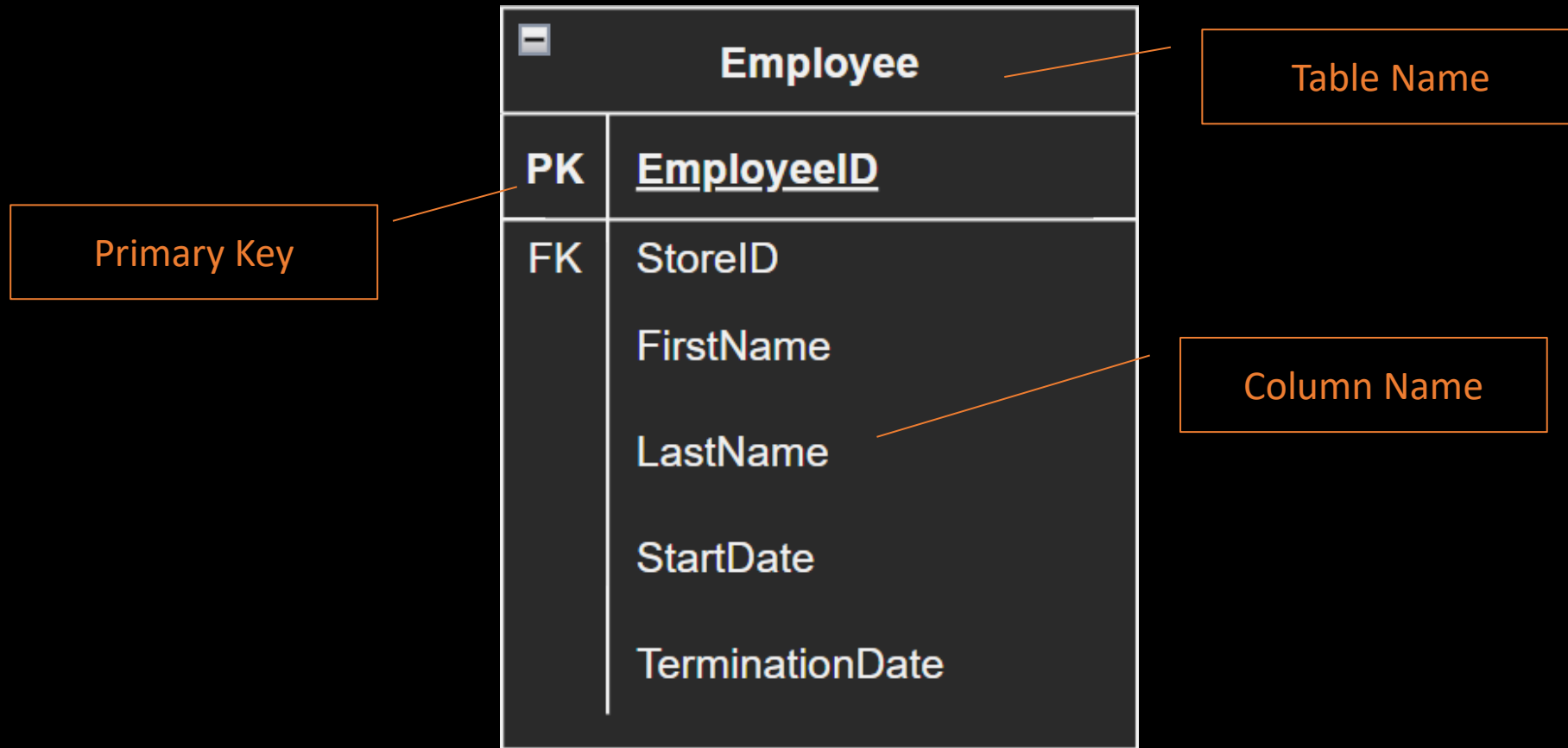
- Entity Relationship Diagrams, or ER Diagrams, visualize the relationship between entities within a database.
- It is a design or blueprint of the database.
- We'll base it off our conceptual model.
- There are several way to depict ERD's, we'll use IDEF1X.



# When do we use ER Diagrams?

- Design a new database
    - Break down problem into smaller steps.
    - Help see relationships
  - Debug a database
  - Graphically represent database structure.
- 
- A faint, semi-transparent diagram of an Entity-Relationship (ER) model is visible in the background. It features several cylindrical shapes representing entities, connected by lines that represent relationships. The diagram is positioned behind the text, providing a visual context for the topic of ER diagrams.

# Entity Relationship Notation - Tables



# Entity Relationship Notation - Relationships

