

Slide 1: The Evolution of Data Models

The Evolution of Data Models

Sadie St. Lawrence, MSA
Data Scientist, VSP

UC DAVIS
EXTENSION

Slide 2: Learning Objectives

Learning Objectives

Describe data modeling

Define relational database system

Discuss advent of relational
databases in SQL

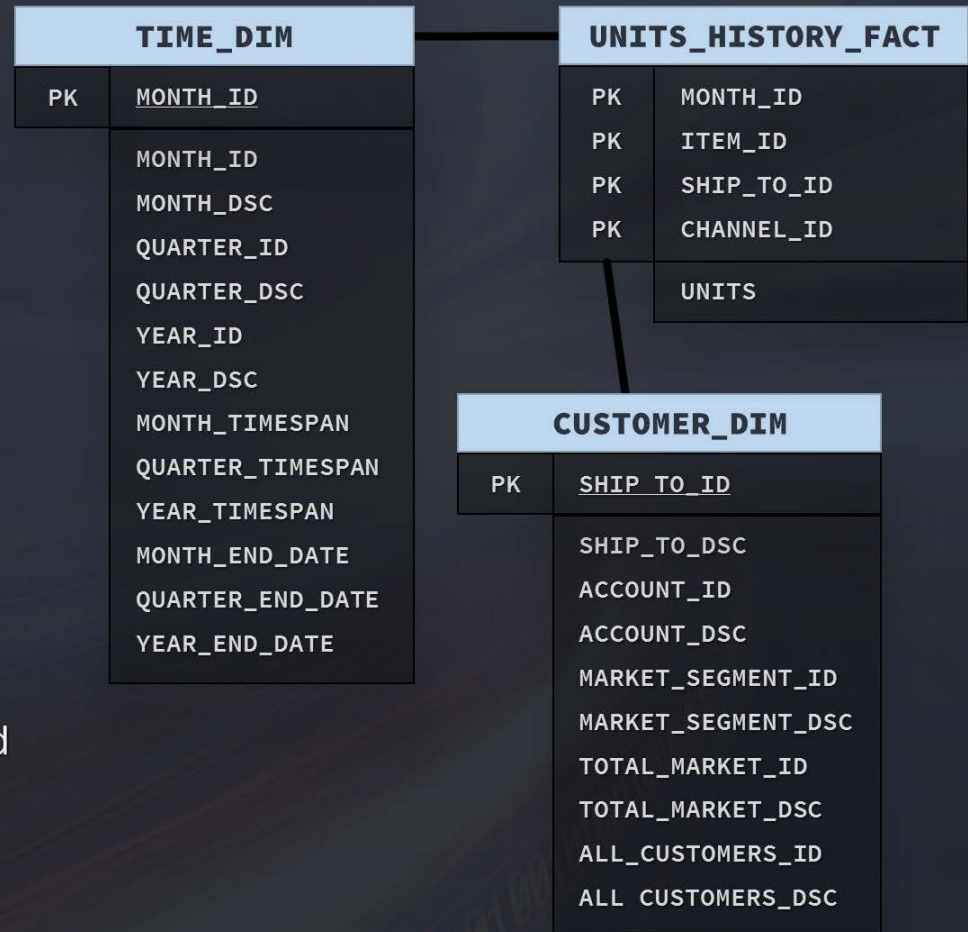
Slide 3: What Is Data Modeling

What is Data Modeling?

Organizes and **structures information** into multiple, related tables

Can represent a **business process** or **show relationships** between business processes

Should closely represent real world



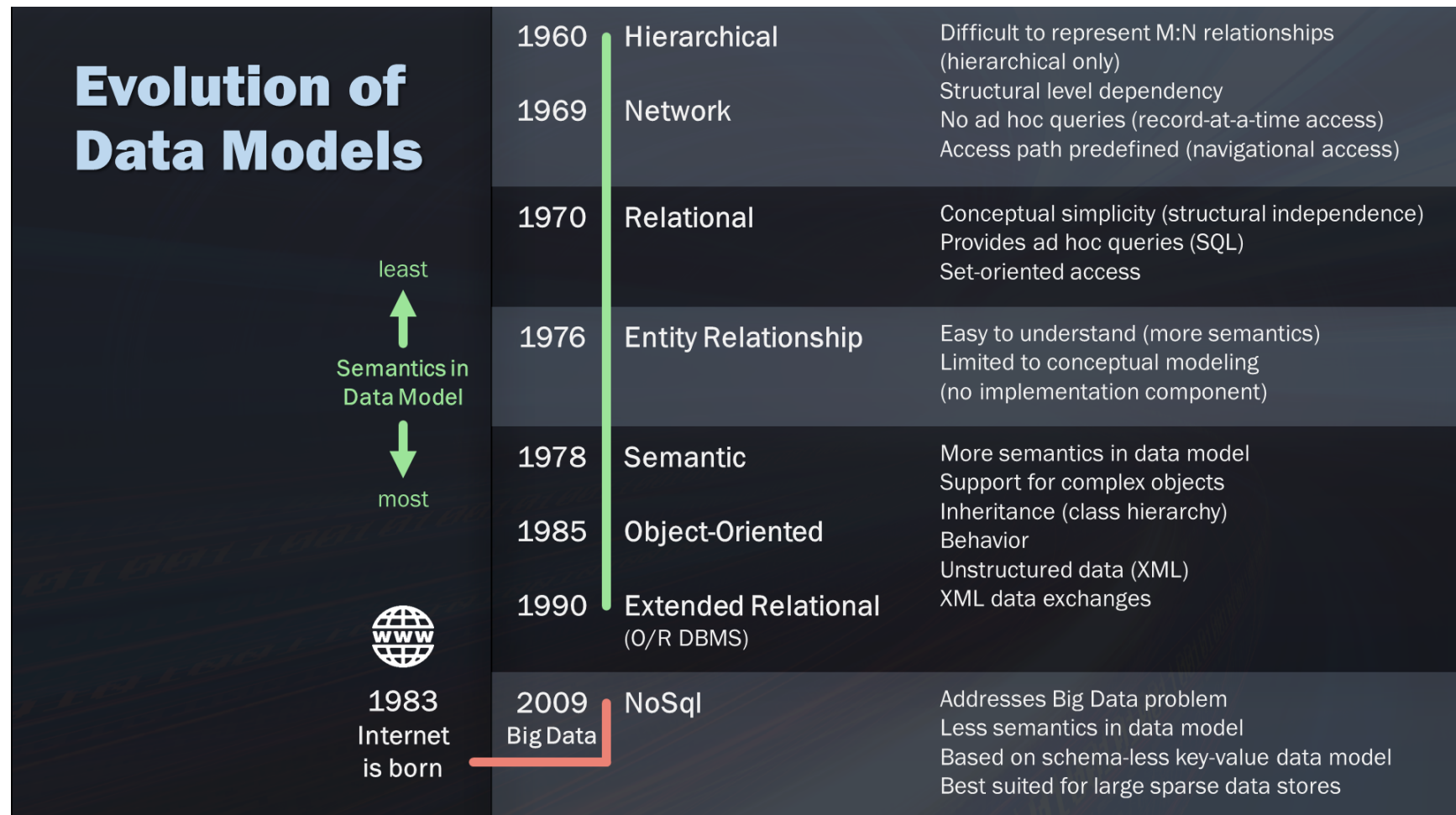
Slide 4: Types of Data Models

Types of Data Models

Models for **prediction** built by
data scientists

Data model as **data tables** represented
and organized in a database

Slide 5: Evolution of Data Models



Slide 6: SQL in a Big Data World

SQL in a Big Data World

NoSQL – Not Only SQL

A mechanism for storage and retrieval of unstructured data modeled by means other than tabular relations in relational databases