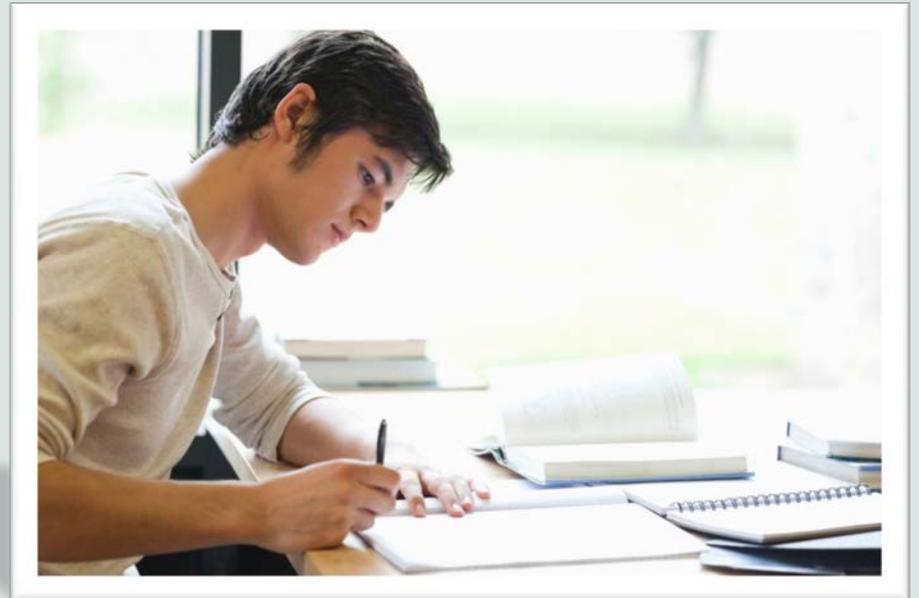




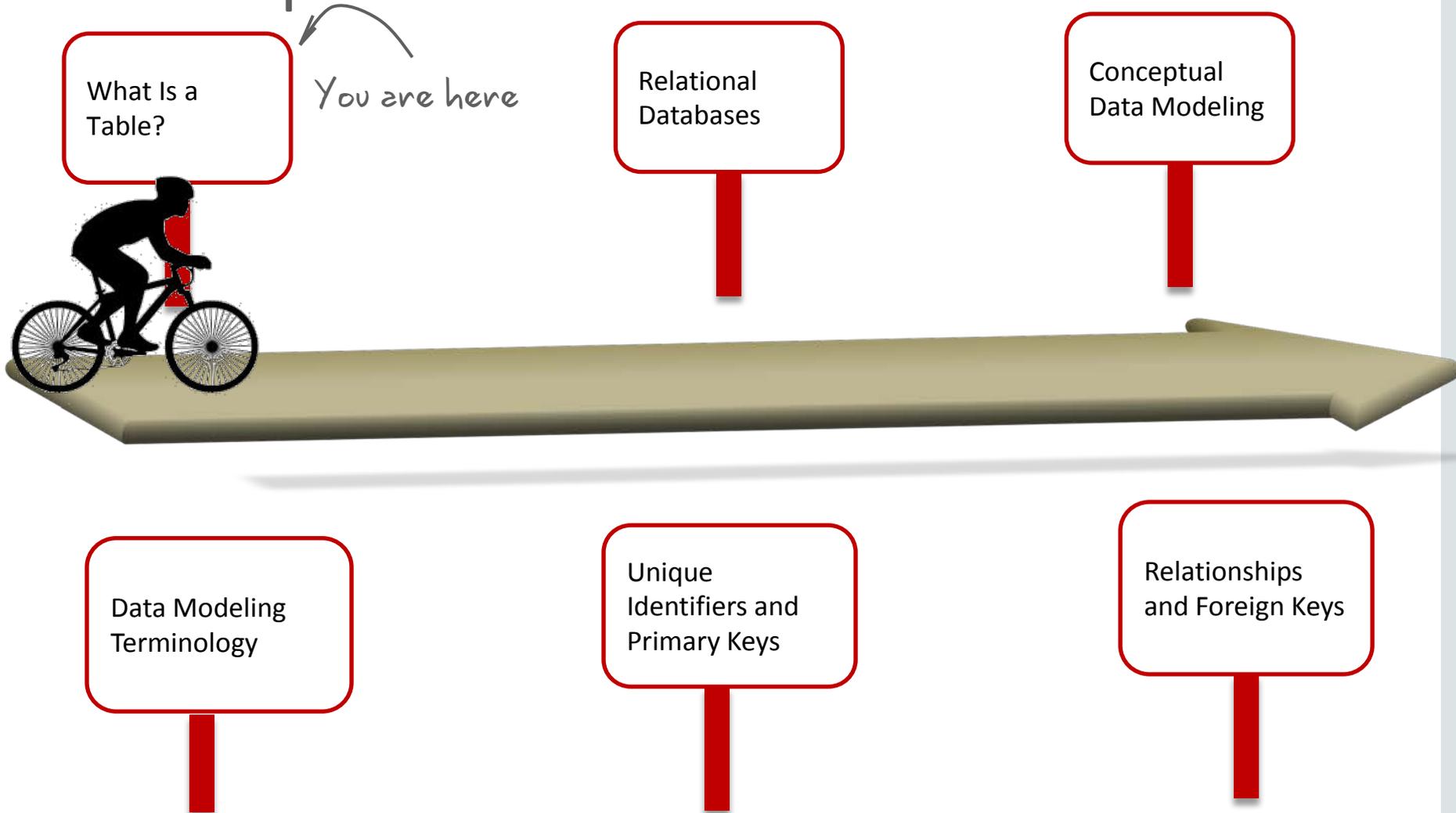
# Database Foundations

2-1

What Is a Table?



# Roadmap



# Objectives

This lesson covers the following objectives:

- Describe the features of a single table
- Explain the advantages and disadvantages of a flat file database



# Single Table

- A flat file database is a type of database that stores data in a single table.
- Flat file databases are generally in plain-text form, where each line holds only one record.

	Customer ID	First Name	Last Name	Address	City
Record 1	CN0001	Rick	Carmen	King Street	Boston
Record 2	CN0002	Nick	Doris	6 Rotrat	Boston
Record 3	CN0003	Mary	Pink	Centrale	Lagos

# Advantages and Disadvantages of a Flat File Database

## Advantages

- Easy to understand
- Easy to implement
- Easy to extract information
- All records stored in one place
- Simple sorting and filtering of reports
- Less hardware and software requirements

## Disadvantages

- Less security
- Data inconsistency
- Data redundancy
- Cumbersome sharing of information
- Slow for huge databases

# Example of a Flat File Database

	Author ID	Author Name	Title
Record 1	AD0001	Oscar Wilde	A Vision
Record 2	AD0002	Leo Tolstoy	War and Peace
Record 3	AD0003	Oliver Goldsmith	Citizen of the World
Record 4	AD0003	Oliver Goldsmith	Androcles and the Lion

# Summary

In this lesson, you should have learned how to:

- Describe the features of a single table
- Explain the advantages and disadvantages of a flat file database



