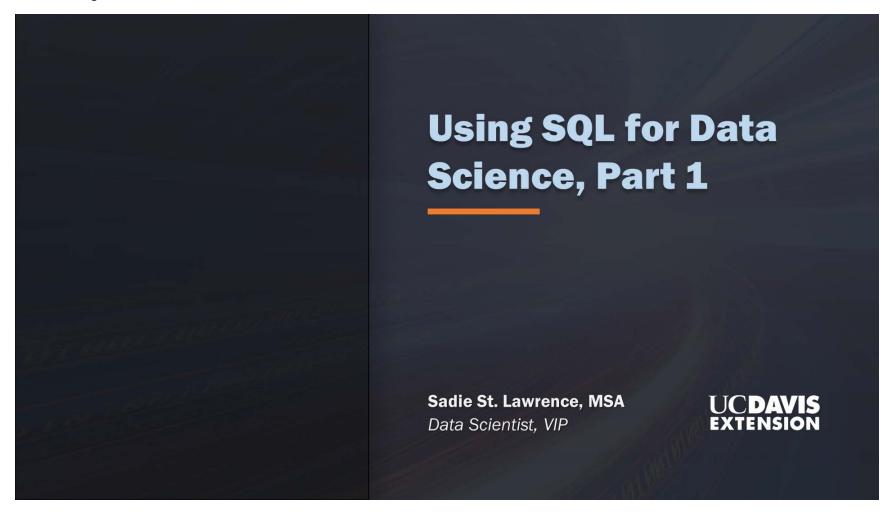
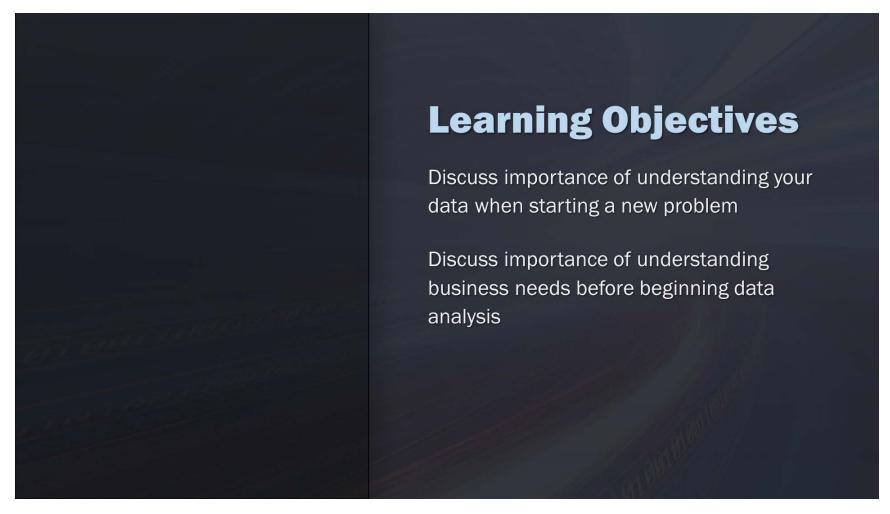
Slide 1: Using SQL for Data Science, Part 1



Slide 2: Learning Objectives



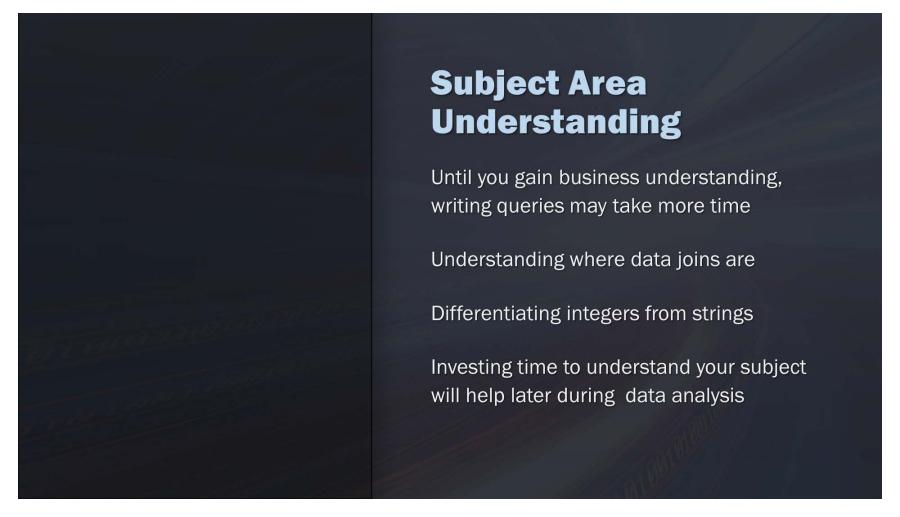
Slide 3: Working Through a Problem from Beginning to End



Slide 4: Data Understanding



Slide 5: Subject Area Understanding



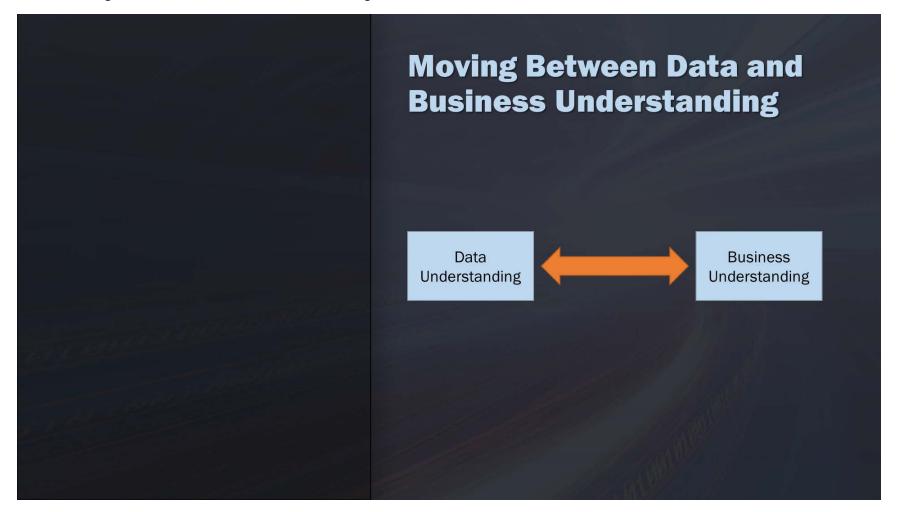
Slide 6: Business Understanding



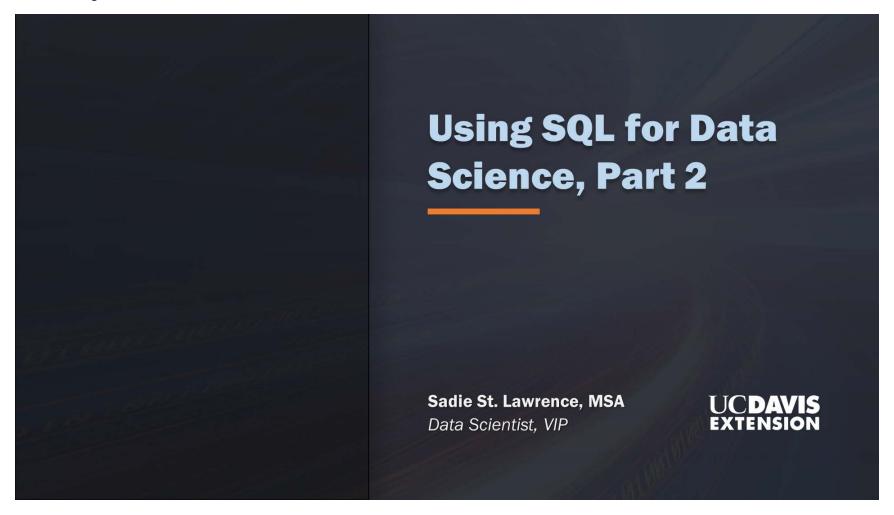
Slide 7: Beware of the Unspoken Need



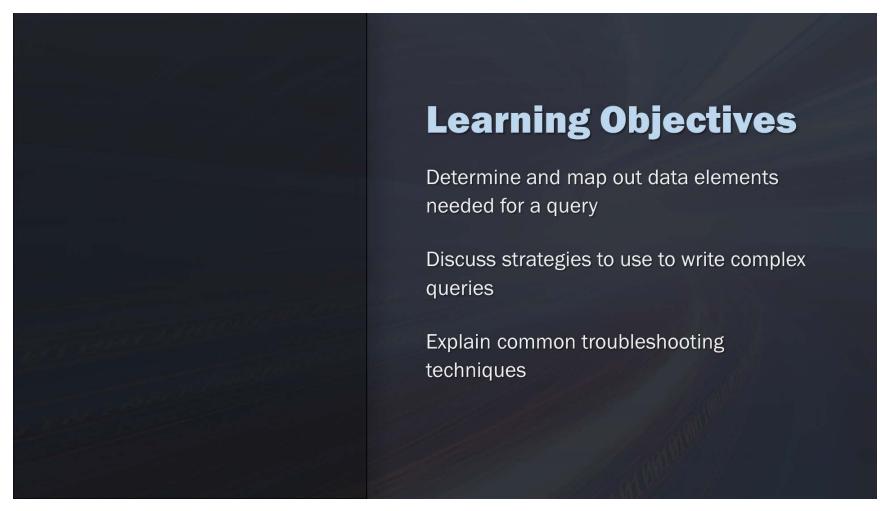
Slide 8: Moving Between Data and Business Understanding



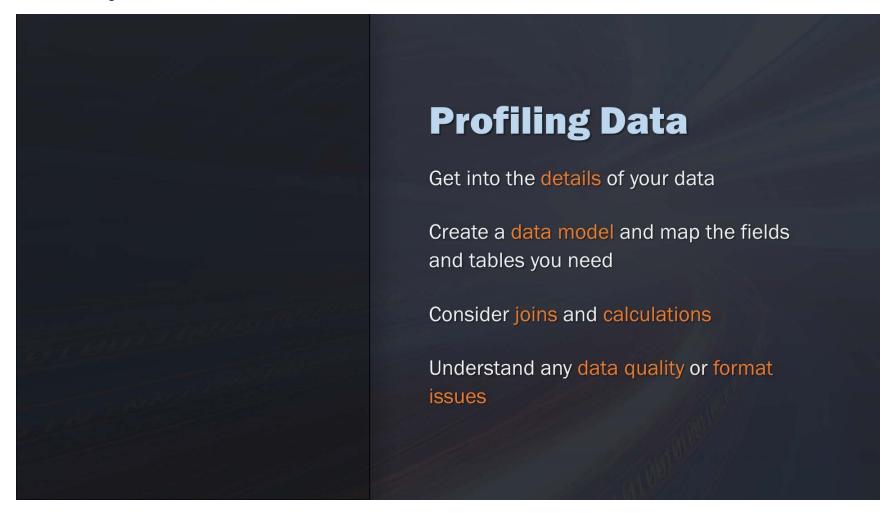
Slide 1: Using SQL for Data Science, Part 2



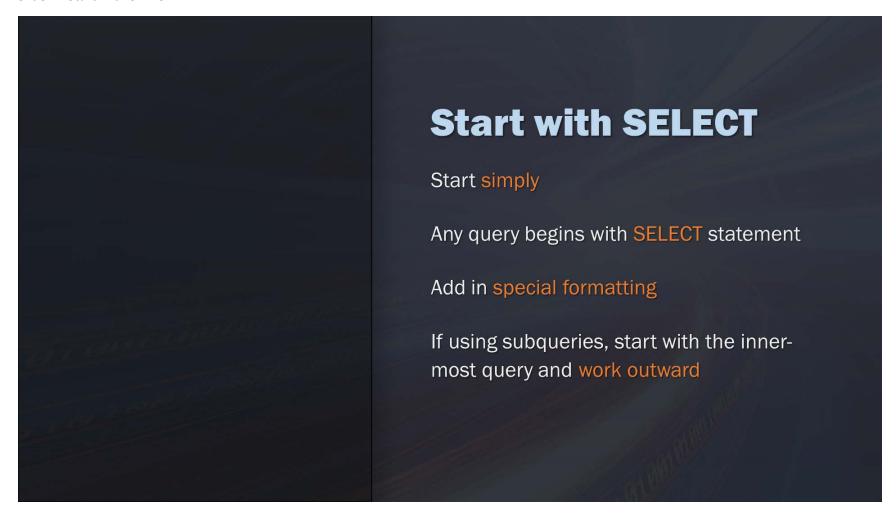
Slide 2: Learning Objectives



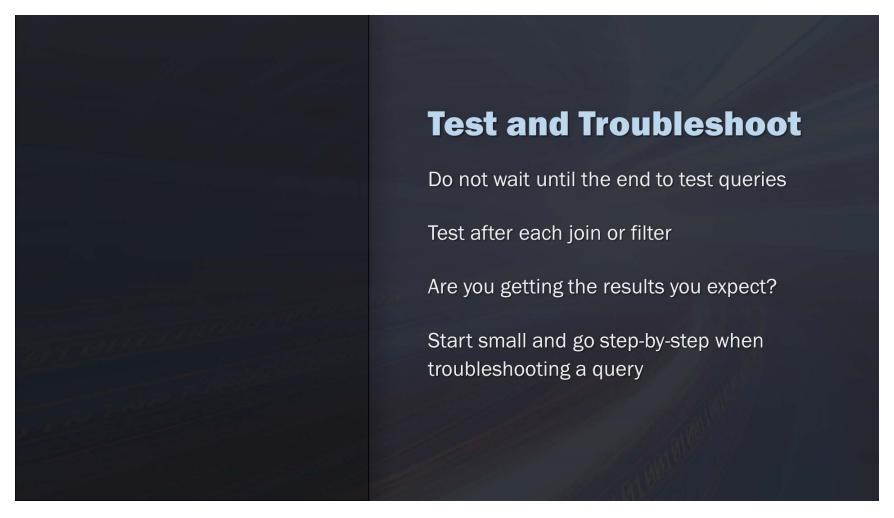
Slide 3: Profiling Data



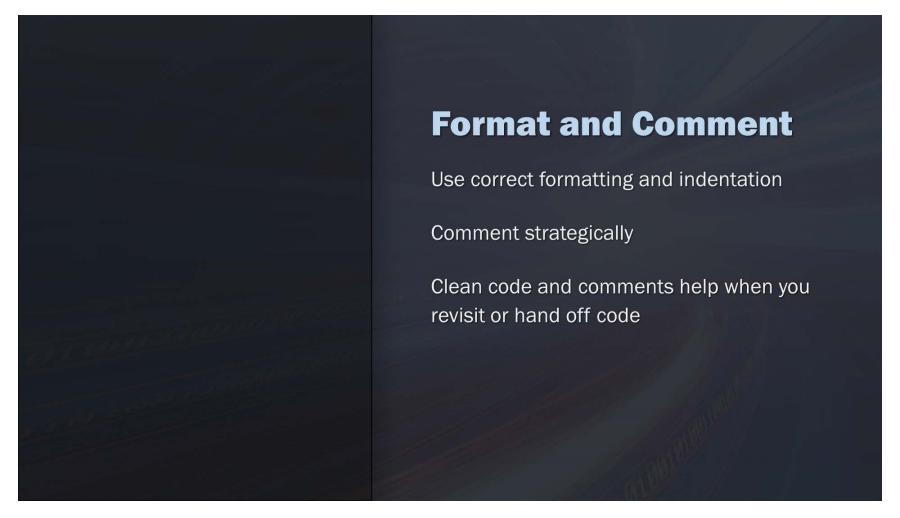
Slide 4: Start with SELECT



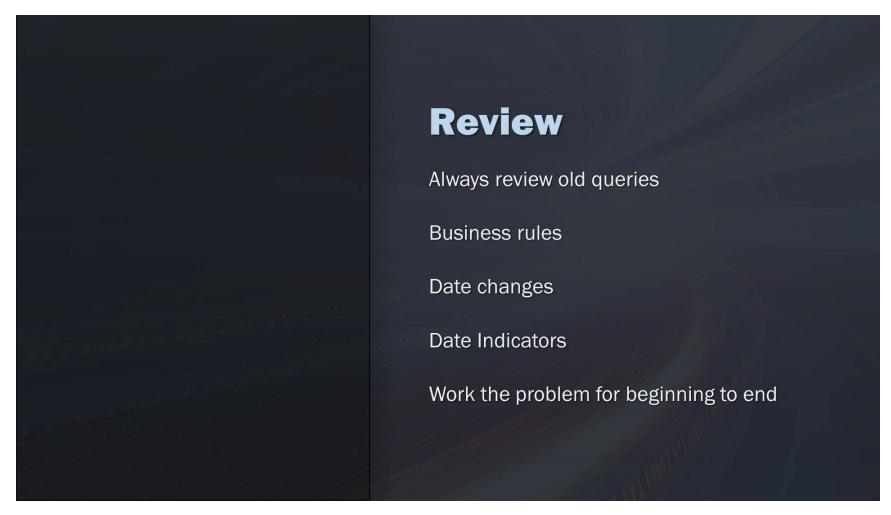
Slide 5: Test and Troubleshoot



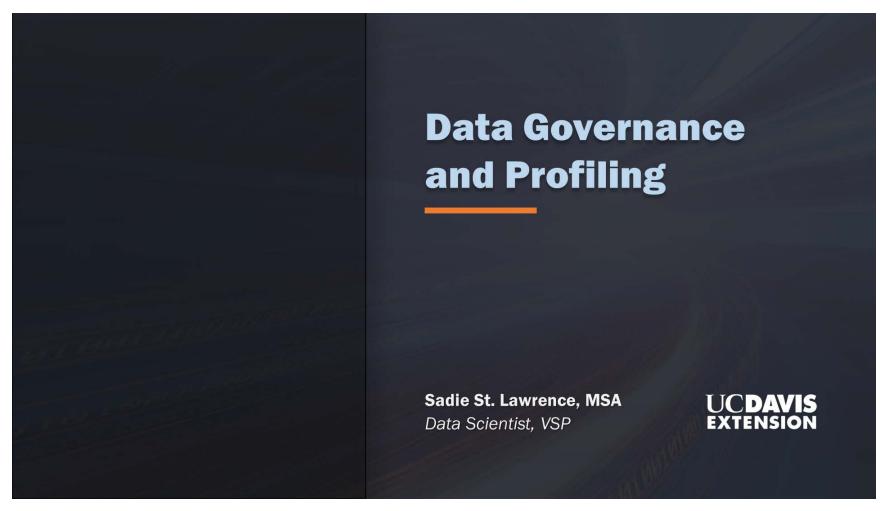
Slide 6: Format and Comment



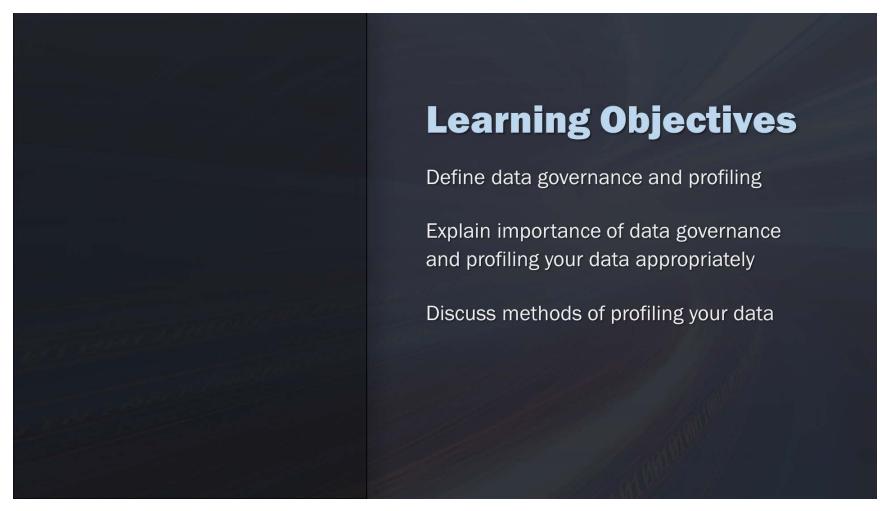
Slide 7: Review



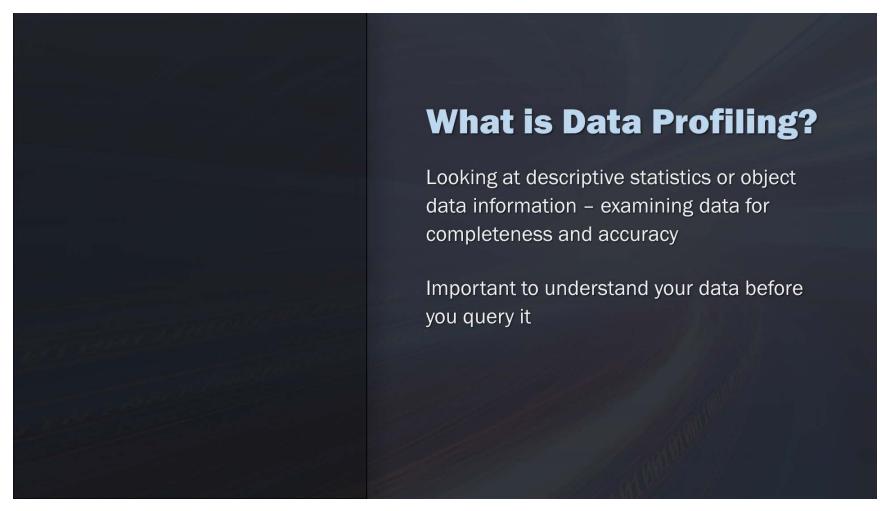
Slide 1: Data Governance and Profiling



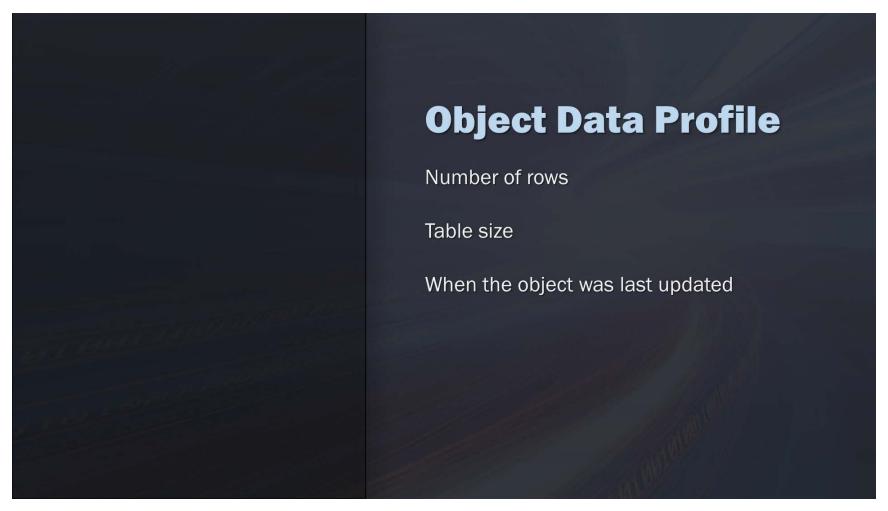
Slide 2: Learning Objectives



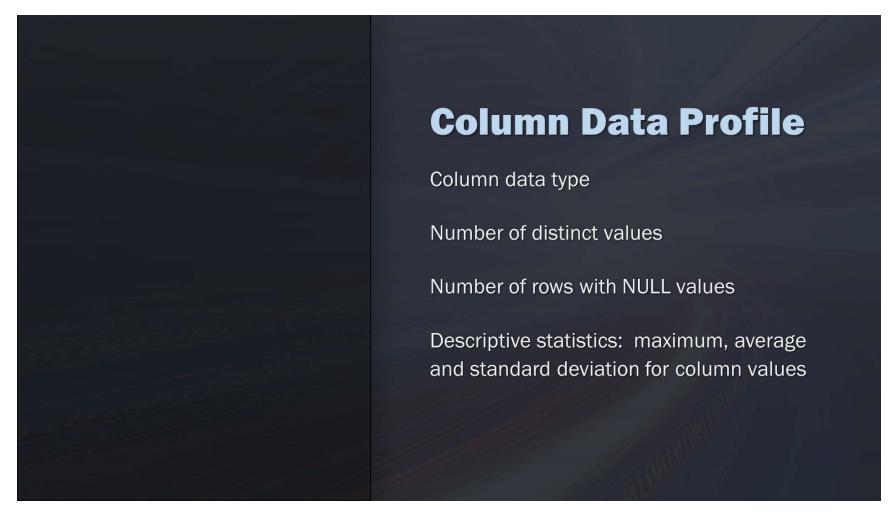
Slide 3: What is Data Profiling



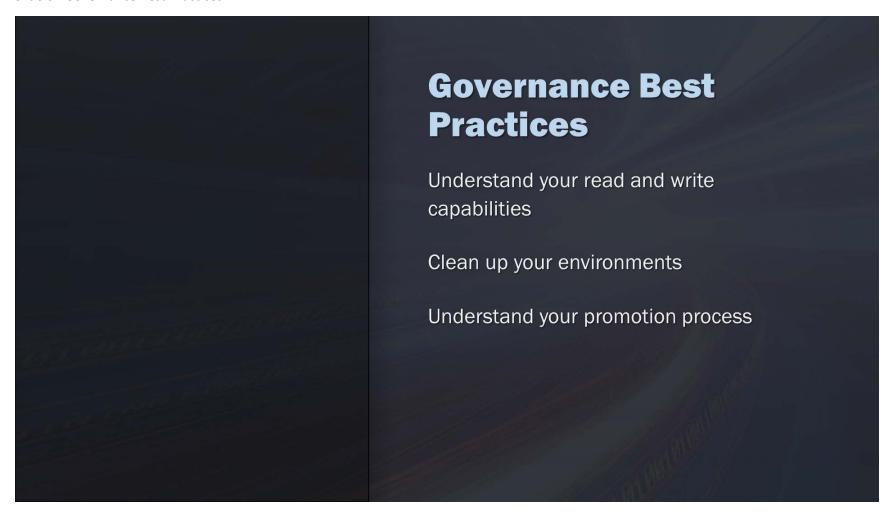
Slide 4: Object Data Profile



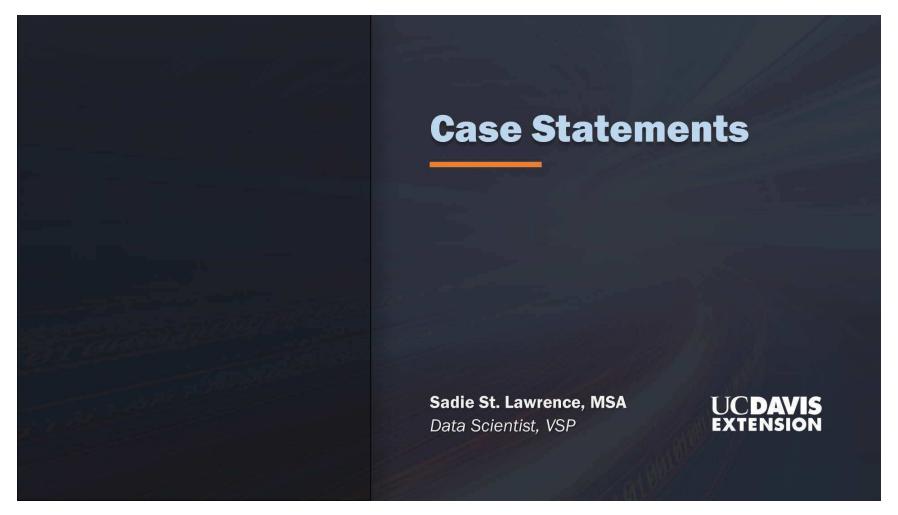
Slide 5: Column Data Profile



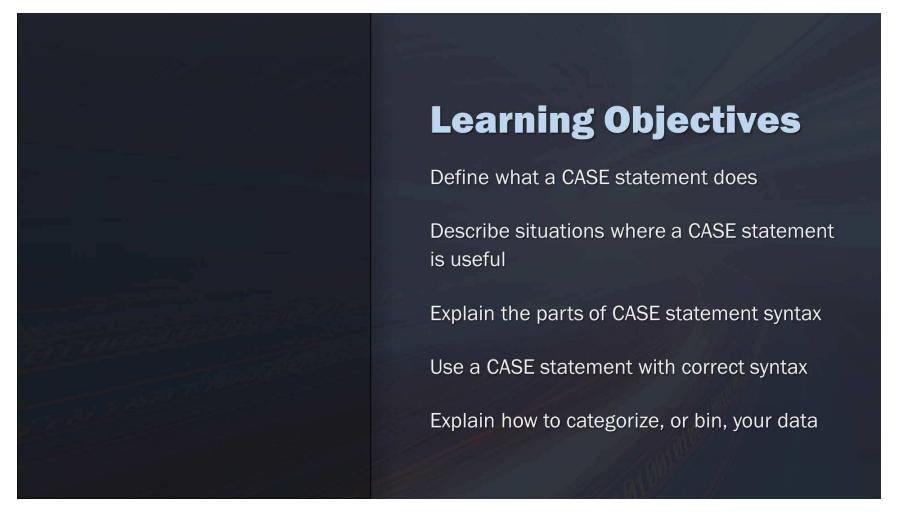
Slide 6: Governance Best Practices



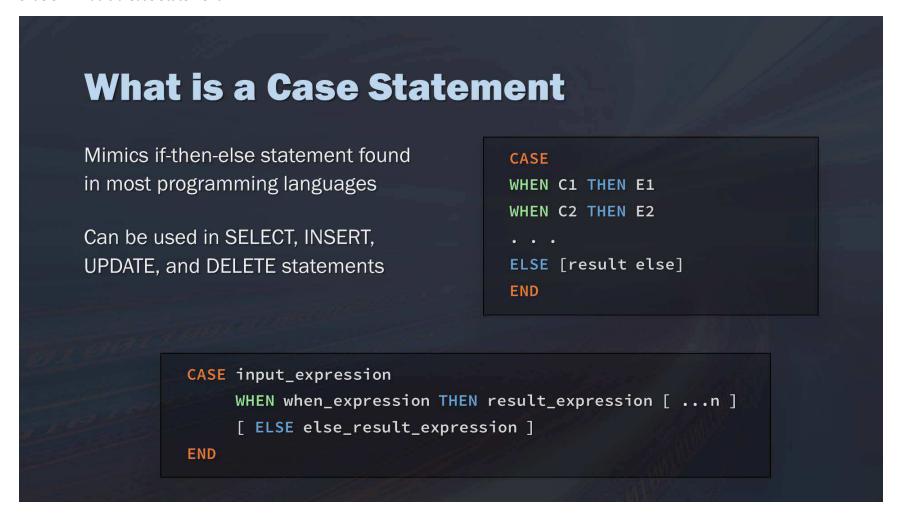
Slide 1: Case Statements



Slide 2: Learning Objectives



Slide 3: What is a Case Statement



Slide 4: Simple Case Statement

4 5

5 7

6 6

7 4

8 3

Steve

Robert

Michael

Margaret

Jane

Johnson

Mitchell

Peacock

King

Park

Calgary

Calgary

Calgary

Calgary

Lethbridge

Calgary

Other

Calgary

Calgary

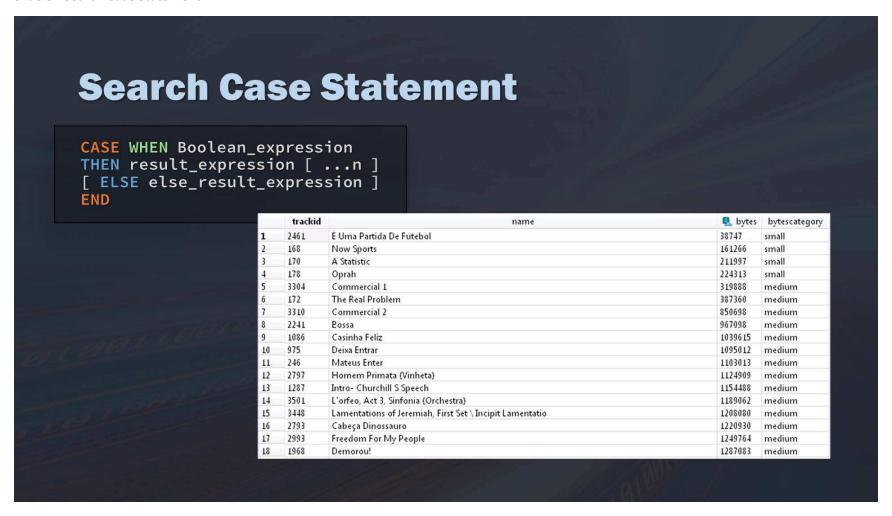
Calgary



FROM Employees

ORDER BY LastName, FirstName;

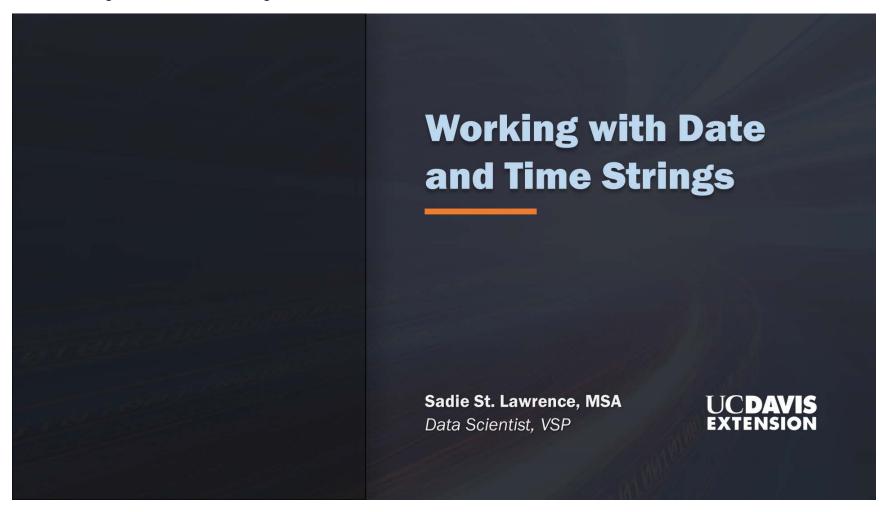
Slide 5: Search Case Statement



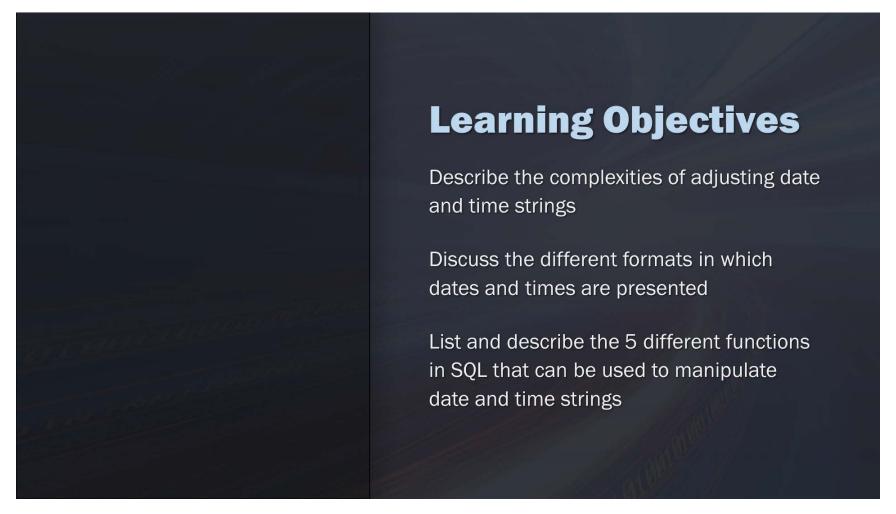
Slide 6: Search Case Statement



Slide 1: Working with Date and Time Strings



Slide 2: Learning Objectives



Working with Date Variables

"As long as your data contains only the date portion, your queries will work as expected. However, if a time portion is involved, it gets more complicated."

"The most difficult part when working with dates is to be sure that the format of the date you are trying to insert, matches the format of the date column in the database."

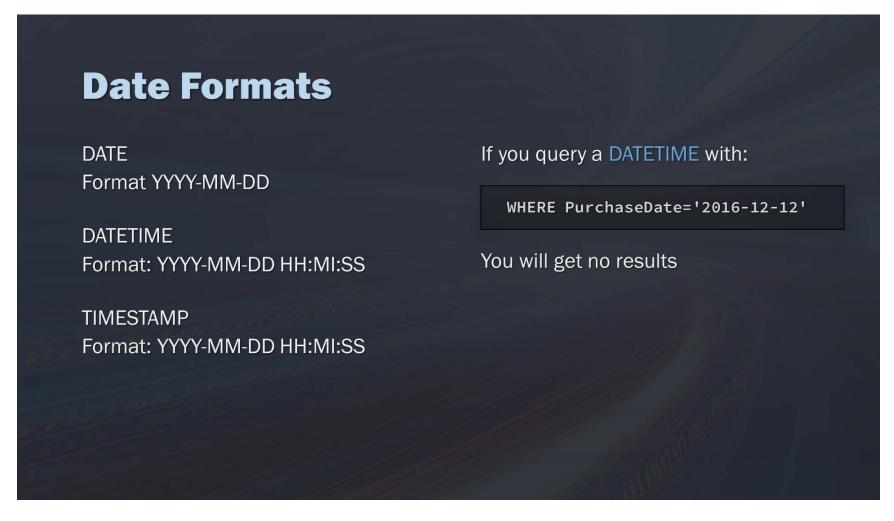
-W3 Schools

Dates are stored as datetypes

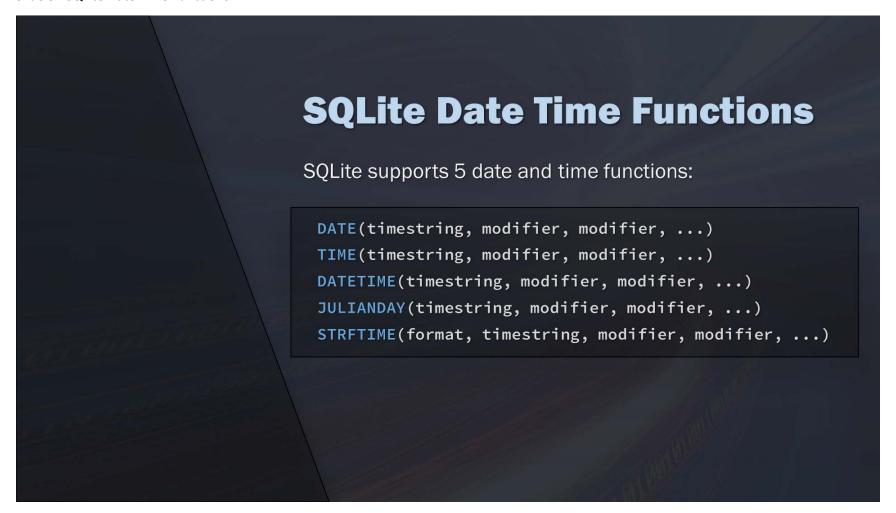
Each DBMS uses it's own variety of datatypes

Wednesday, September 17th, 2008 9/17/2008 5:14:56 P.M. EST 9/17/2008 19:14:56 GMT 2612008 (Julian format)

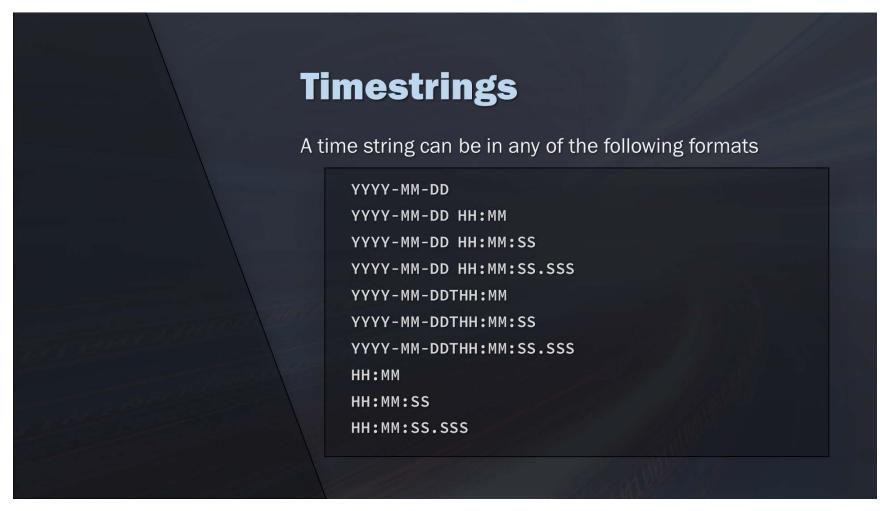
Slide 4: Date Formats



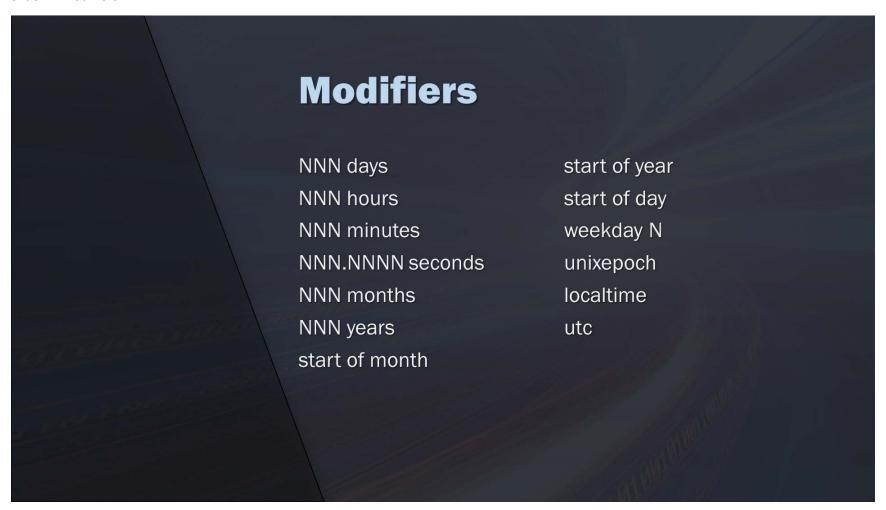
Slide 5: SQLite Date Time Functions



Slide 6: Timestrings



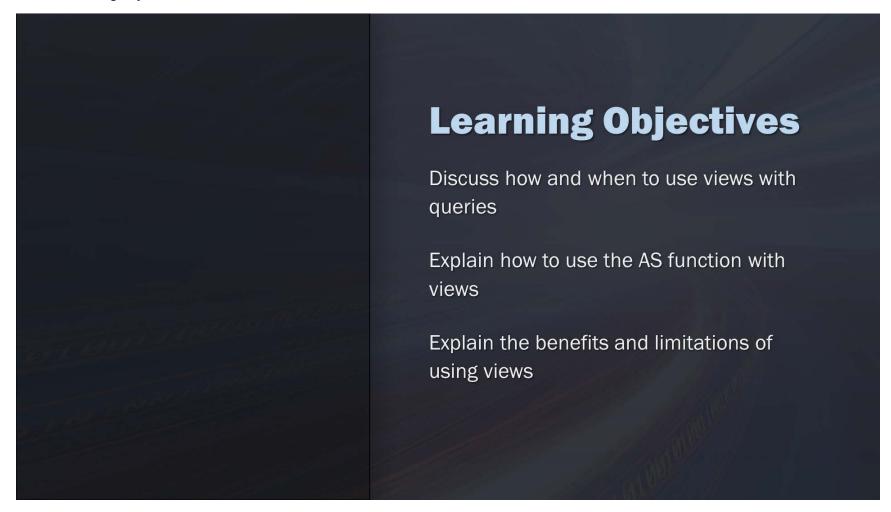
Slide 7: Modifiers



Slide 1: Views



Slide 2: Learning Objectives



Slide 3: Overview of Views



Slide 4: Creating a View



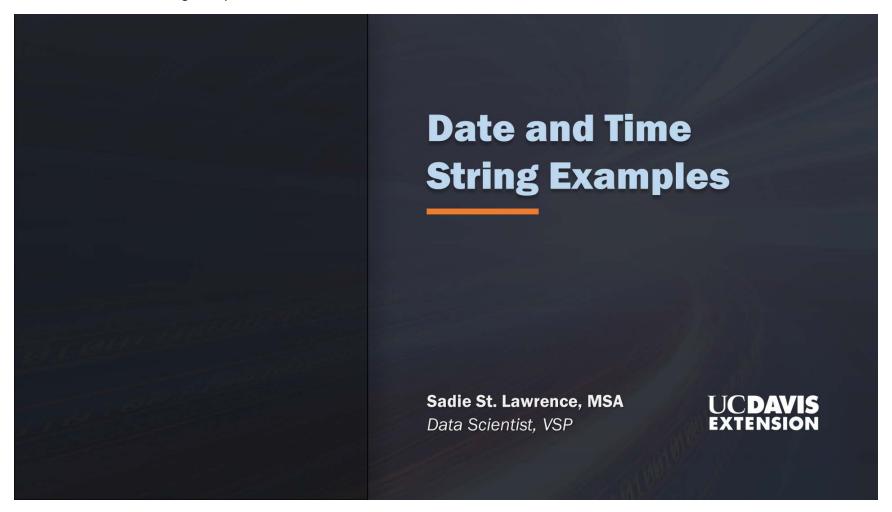
Slide 5: Creating a View



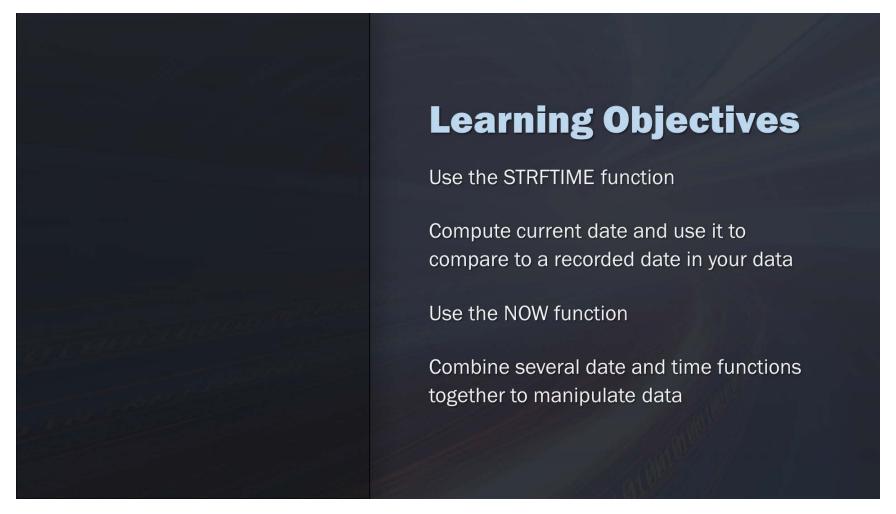
Slide 6: Why Use Views



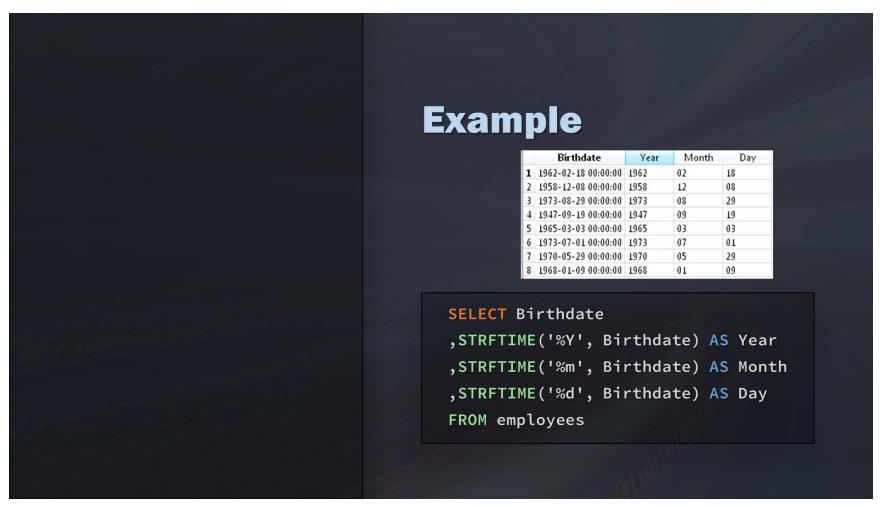
Slide 1: Date and Time String Examples



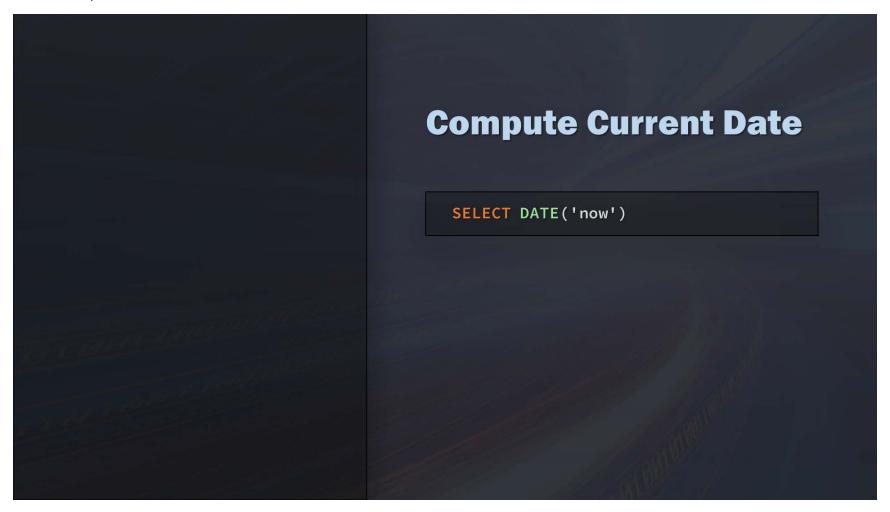
Slide 2: Learning Objectives



Slide 3: Example



Slide 4: Compute Current Date



Slide 5: Compute Year, Month, and Date for the Current Date



Slide 6: Compute the Hour, Minute and Second and Milliseconds from Current DATETIME



Slide 7: Compute Age Using Birthdate

