

Assignment #	Description & Errata
1	<p>Read the course syllabus (http://www.sc.maricopa.edu/trolen/cis119/119syl.pdf).</p> <p>Send an email to tom.trolen@sccmail.maricopa.edu. Place CIS119DO and your first and last name in the subject line (eg: CIS119- Joe Student). In the message body, state that you have read the syllabus. If you have questions regarding the syllabus, you may include them in the message body or we can discuss them in class. I'll reply with your student code (eg: R2D2), which you'll need to view online grade updates.</p>
2	<p>You will use SQL Developer software to connect to our cis119do database during class sessions and when working through out-of-class assignments. There are two main ways for you to access SQL Developer:</p> <ul style="list-style-type: none"> • via mySCC Launch a web browser, navigate to https://myscc.scottsdalecc.edu and login using your SCC network Username and Password. Click the CIS-BPC folder, then click the SQL Developer icon to launch the program. Login with the Oracle Username and Password you were given at our first class session. Contact me if you missed the first class session so I can give you your cis119do database username and password. • Local installation Download and install SQL Developer on your own Windows PC by following the instructions found at http://cisdev.sc.maricopa.edu. <p>Use at least one of these methods now to ensure you are able to connect from an off-campus computer.</p>
3	<p>Read/Study/Do Chapter 1: <i>SQL and Data</i>, Labs 1 and 2 on pages 1-34.</p> <ul style="list-style-type: none"> • Page 8: <i>Lab 1.1 Exercises</i> is the first of several embedded exercises. Note that the <i>Lab 1.1 Exercise Answers</i> appear immediately afterwards, on page 9. Although you may be tempted to skip doing the exercises and merely peek at the answers, you'll be much better off if you invest the time to attempt each exercise and hold off peeking at the answer until you've either completed the exercise or gotten stuck. Also, the author sometimes goes into substantially more detail and covers new topics and nuances in the Labs in future chapters. • Page 13: Skip the section entitled <i>Data Normalization</i>. Resume on page 16 at <i>Table Relationships</i>. (We'll come back for the skipped material later in the semester.) • Page 27: Skip Lab 1.2 Exercise b (only) since it pertains to the pages you skipped.
4	<p>Read/Study Chapter 1: <i>SQL and Data</i>, Lab 3 on pages 35-47.</p> <ul style="list-style-type: none"> • Note: This section describes the tables in the STUDENT schema, which is used throughout the book. Read this material carefully so you're up to speed with these tables!
5	<p>Read/Study/Do Chapter 2: <i>SQL: The Basics</i>, Labs 1 and 2 on pages 49-80.</p> <ul style="list-style-type: none"> • Note: Although textbook-based assignments will not be collected, they prepare you for our class sessions and the <i>Applying SQL</i> assignments, which <i>are</i> graded. As you read this and future book-based assignments, you must invest the time to launch SQL Developer (assignment #2 above), login to our cis119do database, and follow along with the commands discussed in the book. You must have previously created the Student schema objects within your own schema. (We will run the creation scripts in class on our first night.) Contact me if you missed the first class session when we ran scripts to create the Student objects within your own schema. • Page 74: Be sure to type the semicolon (;) at the end of each SQL statement as you type this script. <p>(optional) Read/Study the following topics in SQL Tutorial http://www.w3schools.com/sql : SQL Basic: HOME, INTRO, SYNTAX, SELECT, DISTINCT.</p>
6	<p>Read/Study <i>Database Design and Data Redundancy</i>, in the Downloads area of the course web site (http://www.scottsdalecc.edu/trolen/CIS119).</p>
7	<p>Read/Study/Do Chapter 3: <i>The WHERE and ORDER BY Clauses</i>, Labs 1 and 2 on pages 101-130.</p> <p>(optional) Read/Study the following topics in SQL Tutorial http://www.w3schools.com/sql : SQL Basic: WHERE, AND & OR, ORDER BY. SQL Advanced: BETWEEN, LIKE, WILDCARDS, IN.</p>

8	<p>Read/Study/Do Chapter 4: <i>Character, Number, and Miscellaneous Functions</i>, Labs 1 and 2 on pages 133-166.</p> <ul style="list-style-type: none"> • Page 161: Skip sections <i>Floating-Point Numbers</i> and <i>The Remainder Function</i>. Resume on page 162 at <i>Which Number Function Should You Use?</i>
9	<p>Read/Study/Do Chapter 4: <i>Character, Number, and Miscellaneous Functions</i>, Lab 3 on pages 167-186.</p> <ul style="list-style-type: none"> • Page 171: Skip the section <i>The LNNVL Function</i>. Resume at <i>The NULLIF Function</i> • Page 172: Skip the section <i>The NANVL Function</i>. Resume at <i>The Decode Function</i>.
10	Read/Study/Do Chapter 5: <i>Date and Conversion Functions</i> , Labs 1 and 2 on pages 189-216.
11	Read/Study/Do Chapter 5: <i>Date and Conversion Functions</i> , Lab 5 on pages 249-260.
12	<p>Read/Study/Do Chapter 6: <i>Aggregate Functions, GROUP BY, and HAVING Clauses</i>, Labs 1 and 2 on pages 263-282.</p> <p>(optional) Read/Study the following topics in SQL Tutorial http://www.w3schools.com/sql : SQL Functions: AVG, COUNT, SUM, MAX, MIN, GROUP BY.</p>
13	<p>Read/Study/Do Chapter 7: <i>Equijoins</i>, Labs 1 and 2 on pages 285-320.</p> <p>(optional) Read/Study the following topics in SQL Tutorial http://www.w3schools.com/sql : SQL Advanced: ALIASES, JOINS, INNER JOIN.</p>
14	Read/Study handouts: <i>Introduction to Logical Database Design</i> and <i>Database Design: Redundancy and Normalization</i>
15	Read/Study Chapter 1: <i>SQL and Data</i> , pages 13-21, stop at <i>Identifying and Nonidentifying Relationships</i> .
16	<p>Read/Study/Do Chapter 9: <i>Set Operators</i>, Labs 1 and 2 on pages 377-396.</p> <p>(optional) Read/Study the following topics in SQL Tutorial http://www.w3schools.com/sql : SQL Advanced: Union</p>
17	Read/Study/Do Chapter 8: <i>Subqueries</i> , Labs 1 and 2 on pages 323-354.
18	Read/Study/Do Chapter 8: <i>Subqueries</i> , Labs 3 and 4 on pages 355-375.
19	<p>Read/Study/Do Chapter 10: <i>Complex Joins</i>, Labs 1 and 2 on pages 399-426.</p> <p>(optional) Read/Study the following topics in SQL Tutorial http://www.w3schools.com/sql : SQL Advanced: Left Join, Right Join, Full Join</p>
20	<p>Read/Study/Do Chapter 11: <i>Insert, Update and Delete</i>, Labs 1 and 2 on pages 429-488.</p> <ul style="list-style-type: none"> • NOTE: finally this chapter shows us how to <i>change</i> data... but these commands can be dangerous since they modify data values; be careful so as not to mangle your data! • Page 434: Skip the section entitled <i>Using the Binary_Float Data Type</i>. Resume at <i>Inserting Multiple Rows</i> on page 436. • Page 437: Skip the section entitled <i>Inserting Into Multiple Tables</i>. Resume at <i>Transaction Control</i> on page 440. • Page 453: Skip the section entitled <i>Exiting SQL*Plus with Uncommitted Changes</i>. Resume at <i>Locking of Rows Through Abnormal Termination</i> on page 453. • Page 459: Skip the section entitled <i>Subqueries and the Update Command</i>. Resume at <i>Deleting Data</i> on page 466. • Page 481, Lab 11.2 Exercises: Skip tasks d, h, and l. <p>(optional) Read/Study the following topics in SQL http://www.w3schools.com/sql : SQL Basic: INSERT, UPDATE, DELETE.</p>

21	<p>Read/Study/Do Chapter 12: <i>Create, Alter and Drop Tables</i>, Lab 1 on pages 503-543.</p> <ul style="list-style-type: none"> • Page 516: Skip the section entitled <i>The Virtual Column Option</i>. Resume at <i>Creating Tables Based on Other Tables</i> on page 517. • Page 522: Skip the section entitled <i>The Storage Clause</i>. Resume at <i>Lab 2.1 Exercises</i> on page 531.
22	<p>Read/Study/Do Chapter 12: <i>Create, Alter and Drop Tables</i>, Lab 2 on pages 544-568.</p> <ul style="list-style-type: none"> • Note: In this lab, the author also mixes in discussion of how to use SQL Developer menu options to modify table structures, as an alternative to the ALTER TABLE command. Be sure you understand the SQL statements and are able to apply them. <p>(optional) Read/Study the following topics in SQL Tutorial http://www.w3schools.com/sql : SQL Advanced: CREATE TABLE, CONSTRAINTS, NOT NULL, UNIQUE, PRIMARY KEY, FOREIGN KEY, CHECK, DEFAULT, ALTER, DROP.</p>
23	<p>Read/Study/Do Chapter 13: <i>Indexes, Sequences, and Views</i>, Labs 1-3 on pages 571-612.</p>
24	<p>Read/Study/Do Chapter 14: <i>The Data Dictionary, Scripting, and Reporting</i>, Lab 1 on pages 615-629.</p> <ul style="list-style-type: none"> • Page 620, Lab 14.1 Exercises: Skip task j.
25	<p>Read/Study/Do Chapter 14: <i>The Data Dictionary and Dynamic SQL Scripts</i>, Lab 2 on pages 630-656.</p> <ul style="list-style-type: none"> • Note: The author also mixes in discussion of how to use do the same tasks in SQL*Plus, the older client software. Since we won't be using SQL*Plus, we'll skip sections that pertain to SQL*Plus. • Page 633: Skip the section entitled <i>Running a Script in SQL*Plus</i>. Resume at <i>Substitution Variables</i> on page 635. • Page 635: Skip the section entitled <i>Substitution Variables in SQL*Plus</i>. Resume at <i>Using Substitution Variables</i> on page 636. • Page 637: Skip the section entitled <i>Running a Script with a Parameter in SQL*Plus</i>. Resume at <i>Generating Dynamic SQL</i> on page 640. • Page 644: Skip <i>SQL Developer's Data Dictionary Reports</i>. Resume on page 650 at <i>Lab 14.2 Exercises</i>. • Page 650, Lab 14.2 Exercises: Do Task a only (skip tasks b, c, and d). • Page 655: Skip <i>Creating a Master/Child Report in SQL Developer</i>. Resume on page 659 at <i>Lab 14.2 Quiz, skip items 1 and 4</i>.
26	<p>Read/Study Chapter 15: <i>Security</i>, pages 661-693.</p> <ul style="list-style-type: none"> • You don't have sufficient privileges to do most of what is contained in this chapter. Simply read along and check the answers at the end of the lab. • Page 679: Skip <i>Creating and Modifying Users in SQL Developer</i>. Resume on page 685 at <i>Lab 15.1 Exercises</i>. • Page 685, Lab 15.1 Exercises: While logged in to your own schema, do Tasks b, f, and i only (skip tasks a, c, d, e, g, h). • Page 693: Skip Quiz question 2.