C995 – Course 2 "Data Manipulation: SQL for Data Analysis" (4cr)

- **10hr/cr – 39hr (2wk) – 3 exams (7hr) – 10hr Video Lectures – 22.25hr Textbook & Labs**
- **Definition:** SQL knowledge and skills. Data analysis (sort, create schema objects, control user actions, manage data, etc.).
- **Self-Prep Training,** In the past (thousands of hours)
  - DONE – <u>LINK</u> – Microsoft, Querying Data with Transact-SQL (Nov 2019, part of the MCSE hours below)
  - DONE – Microsoft MCSE certification in Analytics; 246 hr studying to pass in Oct/Nov/Dec 2019
  - DONE – 24 years of using SQL at work, heavily; 10,000+ hr of usage
- **Instructor's Recommended Pre-Training,** 10hr (1 wk) – 10hr Video – 2/21 : 2/25
  - DONE – 0.75 hr – <u>LINK</u> – MySQL Tutorial
  - DONE – 0.75 hr – <u>LINK</u> – SQL Zoo
  - DONE – 1.25 hr – <u>LINK</u> – LinkedIn MySQL Tutorial (1.5x to 2x depending on content)
  - DONE – 1.50 hr – <u>LINK</u> – Sheeri Cabral's Introduction to MySQL Development (2x)
  - DONE – 0.75 hr – <u>LINK</u> – Sherri Cabral's Advance Concepts including NOSQL (2x, skip some)
  - DONE – 1.00 hr – <u>LINK</u> – Brad Wheeler's MySQL Tutorial #1 (2x, skip some)
  - DONE – 0.25 hr – <u>LINK</u> – David Gassner's MySQL Installation and Local AMPP Installation (2x, skip the linux and mac sections)
  - DONE – 0.25 hr – <u>LINK</u>– Best Practices for MSDA Capstone
  - DONE – 0.50 hr – <u>LINK1</u>, <u>LINK2</u> – SQL Best Practices Part 1 and Part 2
  - DONE – 0.25 hr – <u>LINK1</u>, <u>LINK2</u>, <u>LINK3</u>– Creating a Stored Procedure, Function, and Trigger in MySQL
  - DONE – 0.25 hr – Go Google and Research https://www.db-fiddle.com/ for running MySQL for doing work
  - DONE – 0.75 hr – <u>LINK</u>– Dr. Sewell Course Videos, Lesson 1 - Conceptual Models (2x)
  - DONE – 0.25 hr – <u>LINK</u>– Dr. Sewell Course Videos, Lesson 2 - ER Modeling (2x)
  - DONE – 0.75 hr – <u>LINK</u>– Dr. Sewell Course Videos, Lesson 3 - Basic SQL (1.75x)
  - DONE – 0.25 hr – <u>LINK</u>– Dr. Sewell Course Videos, Lesson 4 - Advanced SQL (2x)
  - DONE – 0.25 hr – <u>LINK</u>– Dr. Sewell Course Videos, Lesson 5 - Indexes (2x)
  - DONE – 0.25 hr – <u>LINK</u>– Dr. Sewell Course Videos, Lesson 6 - Normalization (2x)
  - DONE – 0.00 hr – Go Google and Research SQLFIddle.com for running MySQL for doing work (drop because only old v5.6 of MySQL offered)
  - DONE – 0.00 hr – Go Google and Research Oracle's LievSQL.oracle.com for doing work; drop because must login – too much time to setup account (is it free anyway?)
- **Interactive Text Books + Take Notes,** 22.25hr (1 wk) – 22.25hr Interactive TextBooks – 2/26 : 3/2
  - DONE – 0.25 hr – <u>LINK</u>– Introduction
  - DONE – 3.00 hr – <u>LINK</u> – MSSQL Essential Training (Bill Weinman, 2x)
  - DONE – 4.00 hr – <u>LINK</u>– Chapter 1 – Conceptual Models: Read, Practice Cards, Quiz
  - DONE – 1.00 hr – <u>LINK</u>– Chapter 2 – ER Modeling: Read, Practice Cards, Quiz, Labs
  - DONE – 5.00 hr – <u>LINK</u>– Chapter 3 – Basic SQL: Read, Practice Cards, Quiz, Labs
  - DONE – 2.50 hr – <u>LINK</u>– Chapter 4 – Advanced SQL: Read, Practice Cards, Quiz, Labs
  - DONE – 1.50 hr – <u>LINK</u>– Chapter 5 – Indexes: Read, Practice Cards, Quiz, Labs
  - DONE – 1.75 hr – <u>LINK</u>– Chapter 6 – Normalizations: Read, Practice Cards, Quiz, Labs
  - DONE – 0.50 hr – <u>LINK</u>– Chapter 7 – Procedure, Trigger, Function: Read, Practice Cards, Labs
  - DONE – 1.00 hr – <u>LINK</u>– Appendix A – University Lab: Conceptual Design Verification, Logical Design and Implementation: Read, Practice Cards
  - DONE – 0.25 hr – <u>LINK</u>– Appendix B – Converting an ER Model into a DB Structure: Read, Practice Cards
  - DONE – 0.05 hr – <u>LINK</u>– Appendix C – Comparison of ER Modeling Notations: Read, Practice Cards
  - DONE – 0.70 hr – <u>LINK</u>– Appendix D – OO Databases: Read, Practice Cards
  - DONE – 0.50 hr – <u>LINK</u>– Appendix E – MS Access Tutorial: Read, Practice Cards
  - DONE – 0.25 hr – <u>LINK</u>– Appendix F – Creating a New Database Using Oracle 12c: Read, Practice Cards
- **Final Exam + Prep,** 6.50hr (1 wk) – 3/2 : 3/4
  - DONE – 2.50 hr – Pre-Assessments (2)
  - DONE – 3.25 hr – Study Course Material Flash Cards and prep and wrap-up
  - DONE – 1.50 hr – Final-Assessment