

# D427 DATA MANAGEMENT APPLICATIONS

## Welcome, Study Plan and Course Pacing Guide!

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### NOT SURE WHERE TO START IN THE COURSE?? You are in the right place!

Your D427 instructor team has put together the following guide full of resources and course tips to help you get the most out of this course and to help you pass the course in the most efficient way possible! 😊

In this course you'll be learning how to use the Structured Query Language (SQL) to create database objects and to retrieve data from a database. You'll also learn about database design and database indexing to make SQL queries more efficient.

You will be completing **1 Hybrid Objective Assessment**. This assessment includes multiple-choice questions and questions that will require you to write SQL statements:

The course lessons and labs will provide the information and practice needed to successfully pass this hybrid objective assessment.

## D427 STUDY PLAN OUTLINE

This study plan outline is a result of student feedback on what has helped your fellow Night Owls be successful!

Many students find that the most efficient way to complete this course is to follow this sequence:

Review the lessons.  
Take the pre-assessment.  
Review any weak areas from your coaching report.  
Take the objective Assessment.



## D427 RECOMMENDED STUDY PLAN (with Tips and Extra Resources!)

The study plan below has helped many students in the course be successful. However, everyone learns differently. Please schedule time to speak with your course instructor to discuss building a customized study plan that works best for you!

1. Complete the following material in its entirety, IN THIS ORDER adhering to this schedule as closely as you can.

Chapter	Exam Question Types	zyBooks Lesson #s
Week 1	Multiple Choice & SQL	Complete Lessons 1.1 – 1.12
Week 2	Multiple Choice & SQL	Complete Lessons 2.1 – 2.14
Week 3	Multiple Choice	Complete Lessons 4.1 – 4.11
Week 4	Multiple Choice	Complete Lessons 5.4, 6.1 – 6.7
Week 5	SQL	Complete Lessons 7.1 – 7.9
Week 6	SQL	Complete Lessons 8.1 – 8.17
Week 7		Pass the preassessment with an overall score of EXEMPLARY
Week 8		Pass the hybrid assessment

2. Take the Pre-assessment and then use your coaching report to determine if any areas need further review.
3. Take and pass the Objective Assessment



If you need additional help: call, email or set up a time to meet with your course instructor, or **use the list of supplemental resources for each section on the following pages! ←←←**

## D427 COURSE PACING GUIDE

The amount of time any course will take you to complete depends on many factors, including your background, previous experience with the course material, and the amount of time you can devote to studying. Many students are able to complete this course in 4 weeks. To help you stay motivated while making progress toward your goals, your course instructor group has put together a **28 Day Challenge!** for this course. To meet the challenge, we suggest the following pacing:

**Week 1:** Chapters 1, 2, and 3 (prioritized sections) - read chapters, complete chapter 2 labs

**Take the D427  
Data Management  
Applications  
28-Day Challenge!**



**Week 2:** Chapters 4, 5, and 6 (prioritized sections) - read chapters, complete chapter 6 labs

**Week 3:** Chapter 7 - read chapter and complete labs;

**Week 4:** Take the Pre-assessment and review areas from the coaching report that are below the competency mark. Take the Objective Assessment.

If you need longer than 4 weeks take the extra time needed to review chapters or complete the exams (4-6 weeks).

Don't forget, your course instructor is here to help! If this plan doesn't fit well with the amount of time you believe you'll need for this course, be sure to contact your course instructor to discuss a customized pacing plan that will work for you!

## Where to Get Help ... for Each Section of the Assessment!

1

### Implements Databases and Database Management Systems – 29% of the assessment

- LinkedIn Learning Video Series – [MySQL Essential Training](#)
- [MySQL Data Types](#)
- [DDL / DML](#)
- Entity Relationship Modeling [recording](#) - unary relationships discussed near the end of the recording.
- [Dr. Daniel Soper – Database Indexes \(video\)](#)
- [Indexes for query optimization](#)
- If you feel that you need to review **Normalization**, please watch this [video](#) or the [Normalization Webinar recording](#). Reviewing the [Normalization Case Study](#) will also be helpful.

2

### Queries Tables and Views – 19% of the assessment

- LinkedIn Learning Video Series – [MySQL Essential Training](#)
- [CREATE TABLE](#)
- [ALTER TABLE](#)
- [DROP TABLE](#)
- [CREATE VIEW](#)
- [ALTER VIEW](#)
- [DROP VIEW](#)
- Creating a [foreign key reference statement](#)

## Where to Get Help ... for Each Section of the Assessment!

3

### **Creates Data Manipulation Language Statements – 31% of the assessment**

- LinkedIn Learning Video Series – [MySQL Essential Training](#)
- [ALTER TABLE](#)
- [CREATE INDEX/CREATE UNIQUE INDEX/DROP INDEX](#)
- [INSERT INTO](#)
- [UPDATE](#)
- [DELETE](#)

4

### **Implements Joins and Aggregate Functions – 21% of the assessment**

- LinkedIn Learning Video Series – [MySQL Essential Training](#)
- [SELECT](#)
- [SELECT DISTINCT](#)
- [GROUP BY](#)
- [HAVING Clause](#)
- [Subquery](#) - Difference between row subquery and table subquery
- [ORDER BY](#)
- [JOIN](#)
- [Aggregate functions – SUM, AVG, and COUNT](#)
- [Left joins / Right Joins / Outer Joins - Examples](#)