Hello, and welcome!

Before you make a big decision, you probably do a lot of research. You gather information from different places. Similarly, businesses use data to make critical decisions. They ask questions about past performance. They look at how well strategies are working. They consider results and percentages. However, all those numbers are not helpful if they are not organized and verified. Expert data management allows companies to combine data from various sources to create a reliable, consistent set of information. It ensures they have timely access to clearly defined, up-to-date details. It also makes that information easy to find and understand.

In this course, you will explore the basics of conceptual, logical, and physical data models. You will learn about structured query language (SQL). And you will gain experience in creating databases and tables. This knowledge will enable you to provide accurate data for a wide range of industries. That skill will prove valuable on your career path!

We invite you to take a minute to learn about the course by reviewing the information that follows. This way, you will be better able to understand the expectations of the course as a whole. Then you can determine how to manage your time and efforts as you navigate through it.

You are in the right place. You belong here. You can do this!
Course Description and Competencies

What to Expect

This course offers an introduction to data model creation. You are expected to gain skills in creating databases and tables in SQL-enabled database management systems. You will also learn about normalizing databases. The course materials include readings, practice quizzes, and hands-on activities to prepare you for the course assessment.

This is a foundational course, and there is no prerequisite. You will demonstrate three competencies through an objective assessment.

By the end of this course, you will be able to:

1. Explain attributes of databases, database tables, and structured and associated query language (SQL) commands.
2. Determine how to run queries for creation and manipulation of data in relational databases.
3. Define primary and foreign keys in data normalization.

This is a foundational course, and there is no prerequisite. The objective assessment allows you to demonstrate three core competencies from the course. You will have two attempts to pass the exam.

1 final exam  •  3 competency units
## Course Outline

<table>
<thead>
<tr>
<th>Module</th>
<th>Upon completion of this module, you will be able to:</th>
</tr>
</thead>
</table>
| **Databases** | A. Apply appropriate data types to data columns.  
B. Differentiate between structured query language (SQL) statement categories.  
C. View tables in a database.  
D. Differentiate between types of JOINs. |
| **Queries** | A. Manage data in relational databases using SQL.  
B. Run a SQL query.  
C. Manipulate data with SQL statements.  
D. Create a database by using SQL statements. |
| **Architecture** | A. Choose appropriate primary keys for a relational database.  
B. Implement primary keys to identify unique records.  
C. Apply foreign keys that relate lookup tables to other tables.  
D. Eliminate fields from a table that do not depend on the primary key. |

## Technology Requirements

We want you to have the tools to succeed! Since this course includes at least one proctored test, please be sure to have a working microphone, speakers, and an *external* webcam. Unfortunately, an internal webcam (built into many laptops) is not acceptable. For other details about the technology you’ll need, review the Computer System and Technology Requirements. If you have questions about your setup, contact support@academy.wgu.edu.
Key Contacts

Your Fellow Learners
Check out the Course Lobby in the course site! If this online community, you can ask questions and explore ideas. You can connect with your fellow learners. When you use this site, you will realize that other learners may have the same questions you have. You can all benefit from learning together!

Technical Support
If you encounter technical issues, be sure to contact the Help Desk. Just submit a Support Request for assistance.

Program Support
Do you have questions about your account? Our Academy Support Team has answers. They can help with billing, switching courses, and other requests. You can contact them at (888) 320-0540 or support@academy.wgu.edu.

Accommodations
WGU Academy provides compliant and accessible learning experiences. If you require accommodation, please contact us at the start of the course. You can email StudentAffairs@academy.wgu.edu or call (888) 320-0540. We are committed to ensuring that all students with disabilities have equal access to WGU Academy's services and materials. We strive to use best practices for accessibility. Our goal is to conform to existing U.S. laws. These include the Americans with Disabilities Act and Section 504 and Section 508 of the Rehabilitation Act. Our learning management system (LMS) platform is Open edX. Open edX’s commitment to accessible content is published on their Website Accessibility Policy.