COURSE OBJECTIVES

The purpose of this course is to equip students with the foundational knowledge, skills, methods, tools, and resources needed to design a database and learn how to operate and interact with databases. In this course, the students will learn the essential structure of relational databases, how to read and write simple and complex SQL statements, as well as advanced database manipulation techniques.

KEY CONCEPTS

- Modeling and Designing Database
- Entity-Relationship Model
- Database structures
- From ER Diagram to SQL Tables
- Querying a Database Using SQL
- Google Big Query

COURSE DESCRIPTION

Structured query language (SQL) is the language for databases. Databases arguably store the vast majority of the world’s data. Without accurate data, companies simply can’t deliver the basic services they need to provide. Databases provide fast, safe and effective means to store this information, and databases are at the core of most information. This course provides a step-by-step introduction on how to query an SQL database. You will learn how to create SQL statements for data storage, data collection, data computation and reporting.