



Introduction to Structured Query Language (SQL) For Business & Finance

Overview

Databases are ubiquitous and used in almost every organization. Understanding the basics of databases and how to access and manipulate data efficiently allows business professionals to significantly boost their productivity and decision making skills.

This course provides a hands-on introduction to databases and SQL. At the end of the course, participants will be confident in working with database systems to effectively analyze relevant data and draw meaningful business conclusions.

What This Course Offers

- Overview of different database technologies
- Experience working with relational databases
- Introduction to SQL and how to access and manage complex data
- Course notes, certificate of completion, and post-seminar email support for 1 year
- An engaging and practical training approach with a qualified instructor with relevant business, technical, and educational experiences

Who Is This For

This course is relevant to junior and senior professionals who work with databases and want to understand how to access and manipulate data efficiently.

Course and Contact Information

Course Prerequisites: None

Duration: 1 Day

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Course Curriculum

- **Introduction**
 - What are relational databases, why are databases so important, overview of different database technologies, Excel vs. databases, query & syntax tips
- **From Data to Tables**
 - Introduction to fundamental database concepts, how to structure data in tables, relationship between tables, keys and indices, normalization
- **Most Important SQL Commands**
 - Overview of the most important SQL statements including SELECT, BETWEEN, IN, WHERE, GROUP BY, HAVING, etc. including writing complex queries with these commands
 - How to gather basic descriptive statistics on large datasets
 - Aggregating data
- **Advanced SQL Functionality**
 - INNER JOIN
 - Subqueries
- **In-Class Project**
 - Hands-on experience importing, preparing, analyzing, and drawing meaningful business insights from a real-world database
- **Final Exam**
- **Wrap-up & Summary**
 - Where to go from here, recommendation of additional resources

Course Content Developers

David Haber

David creates and manages Cognitir's products and technology. He has led programming workshops at the undergraduate and graduate levels, at blue chip companies, and world renowned management consulting firms.

David has experience working with both startups and large corporations. Previously, he was a lead software and machine learning engineer at Soma Analytics, an investor-backed and award-winning health-tech startup in London. David also worked on optimizing large-scale payment processing systems at Deutsche Bank in Singapore. Outside of Cognitir, he currently advises HiDoc, an early stage digital health startup in Germany.

David holds an MEng (First-Class Honours) in Computer Science from Imperial College London (UK) where he focused on statistical machine learning. He presented his work at international conferences and won several awards for his work. During his studies, he also served as a teaching assistant at Imperial College where he helped undergraduate students master fundamental computer science concepts.



Neal Kumar, CFA

At Cognitir, Neal leads strategy, business development, and marketing & advises on new product development.

Outside of Cognitir, Neal runs his own boutique consulting practice and is a Small Business Development Center (SBDC) Business Counselor. As a consultant and counselor, Neal advises executive teams of both large corporations and small & medium enterprises on issues ranging from executing big data strategies to financial modeling & corporate finance.

He also leads training seminars for a financial training company and has consistently received top reviews from attendees and created two training courses that were used in seminars worldwide. Before his consulting and training careers, Neal was a Teach For America Corps Member and taught high school mathematics in Saint Louis Public Schools (USA). Prior to joining Teach For America, Neal was an investment banker at Lazard ,JPMorgan, and Houlihan Lokey.

Neal received his MBA from London Business School (UK) and BBA in Finance from the University of Notre Dame (USA). He is also a CFA Charterholder and a Member of the CFA Institute Education Advisory Committee (EAC) Working Body where he helps shape CFA Program Content.

David Wanner

As a Cognitir Instructor, David leads data science and SQL courses at universities and corporations around the world. He also helps create new courses and content.

In addition to instructing and creating content for Cognitir, David is a data science graduate student at the University of Chicago where he is working on a team to implement machine learning techniques to predict and prevent readmission for patients with Chronic Obstructive Pulmonary Disease (COPD).

Furthermore, David works as a research assistant at UC's Urban Labs, supporting a data science team within the Crime Lab. David has previously worked as a data analyst at 84.51, founded in 2015 as the analytics company for Kroger.

Prior to his work at UC, David was a Teach For America Corps Member in St. Louis and continued his work in education with the Noble Network in Chicago, teaching physics and starting the Robotics Club.