

Institute of Coding Skills Bootcamp

Introduction to Databases

Location: Online **Cost:** Free

Contact Hours: 2 hours per week including tutorials and lab-based activities, 10 weeks

Synopsis:

Databases are all around us. Everything we do from shopping to watching television is likely to involve a database of some sort. This module teaches the fundamentals of extracting information from a relational database using structured query language (SQL). You will gain an understanding of the basic SQL statements that can be written to provide information that is useful to a business. You will also learn how to create your own database structure for storing business information.

Notes:

This module is aimed at professional learners who are looking to learn the basics of using SQL databases.

Assessment:

Learners will be assessed on their understanding through assignments, and a two-hour open book test.

Aim:

This module aims to introduce learners to structured query language (SQL) which is used for the manipulation of data in relational databases.

Learning Outcomes:

Describe the major characteristics of a relational database; Write SQL queries to extract information from a relational database; Write SQL queries to create and manipulate a database.

Syllabus:

Introduction to databases; Introduction to SQL; Searching and sorting data; Calculations and function; Aggregate functions and grouping; Multi-table queries; Data manipulation; Data definition.