

iSeries Relational Database

Duration: Two Days

Prerequisites: iSeries Basic Overview and PDM. Students should have a basic understanding of programming concepts.

Audience: This course is designed for programmers and managers who have minimal or no understanding of iSeries database concepts.

Description: The purpose of this course is to introduce students to relational database design concepts. It demonstrates the correct implementation of database files in the iSeries environment. Upon course completion, each student should be able to design a normalized database utilizing reference, physical, logical and join files.

Course Content:

- Explanation of physical and logical files and the differences between the two.
- Structure of a physical file such as record formats, access paths, and data members.
- Data file management of Structured Query Language (SQL) and Data Description Specifications (DDS).
- Explanation of files, records and field level key words. Concepts such as editing, naming, and various data types will be discussed.
- Creation of physical and logical files and the description maintenance.
- Concepts behind the access path process, such as join files, open query files, multi-format files, and access path sharing.
- Explanation and examples of the database normalization process.
- Performance considerations for file sharing, record locking, access path maintenance and the open data path.
- Advanced database concepts such as: check constraints, referential constraints and trigger programs are also covered.