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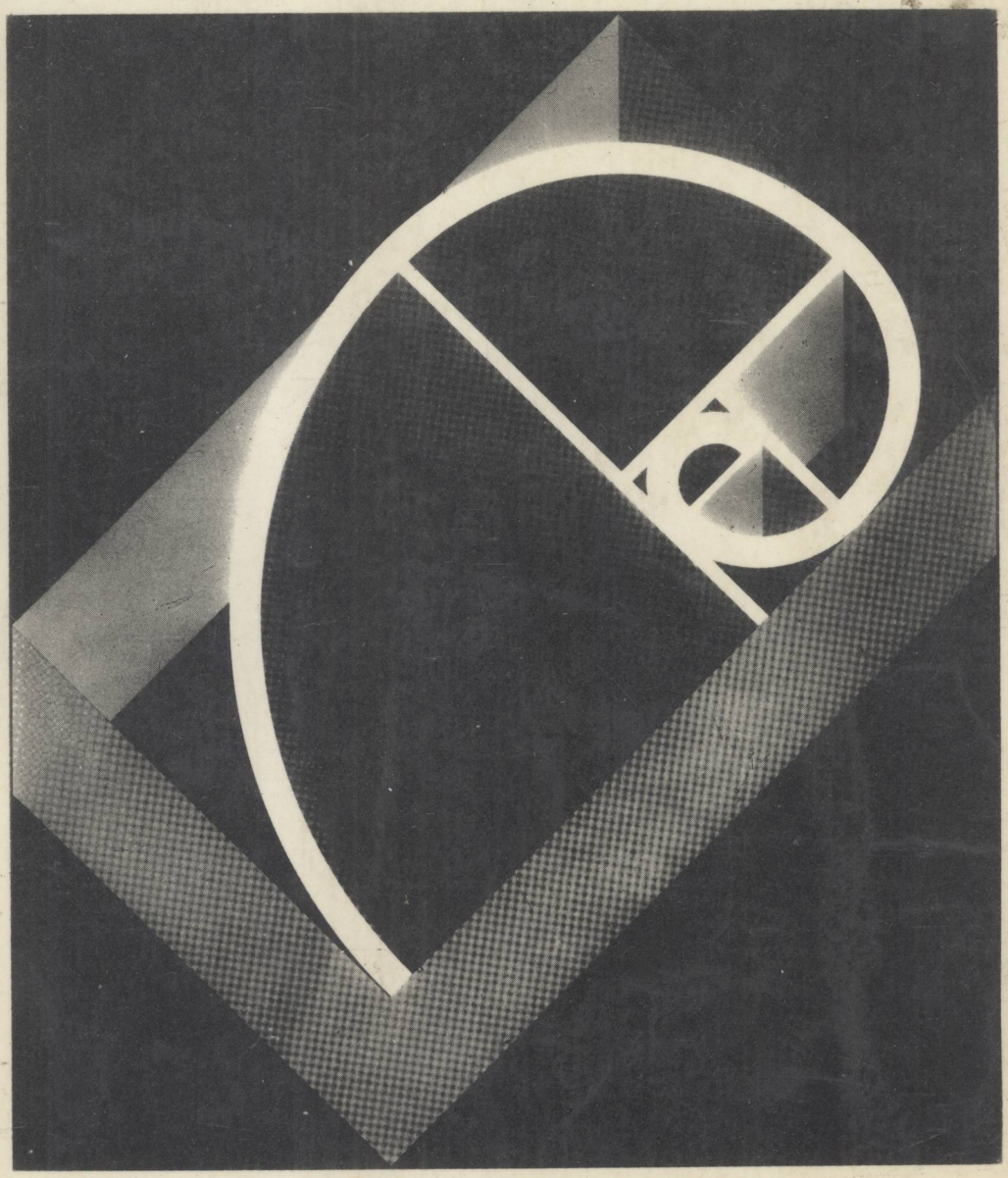

Fast Track To SQL Server

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Student Guide

System 11 Fast Track to SQL Server

Version 1.0

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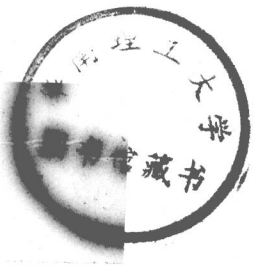

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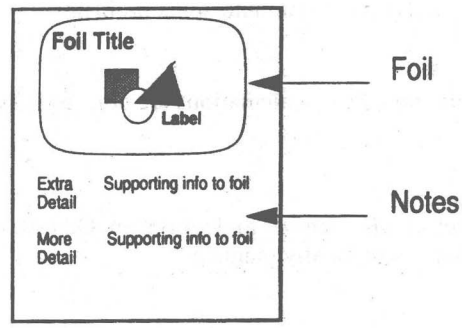
How to Use This Guide

Student Guide

- The pages of this Student Guide are divided into two sections: a reduced foil and a set of student notes.
- Your instructor will project the foil during class. The student notes provide additional notes to accompany the foil.



Lab Workbook

- In addition to the Student Guide, you are supplied with a Lab Workbook.
- The Lab Workbook includes a complete set of lab instructions and solutions for each lab.

Each module usually includes at least one lab. The lab name and number in the Student Guide correspond to the same lab name and number in the Lab Workbook.

ICONS

Reference — Additional references are available for the current topic, either in the SYBASE documentation, or other documentation..

Backward Reference - This topic was covered previously in the course materials.

Forward Reference - This topic is covered later in the course materials.

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Steps — This is a series of steps that allow you to complete a task.

Tips — This piece of information provides a suggestion for completing a task, or provides additional background information.

Warning — This piece of information is important, and not adhering to it may cause you to run into some problems.

Calculation - These calculations are done by hand.

Remember - Remember to do this step. Otherwise, the task may not complete as originally planned.

Trade-off - There are benefits and costs when taking this action.

System Procedure - This is a SYBASE-provided system procedure.

Monitoring Tools - Use a monitoring tool (described in the text) to complete the task.

We Want to Hear From You!

Feedback

Sybase welcomes your feedback on our course materials. This includes corrections as well as suggestions for improvements.

Please mark typographical errors, formatting errors, errors of fact, or areas that need clarification and send copies of those pages to the Sybase Learning Products Group (LPG).

Be sure to include your name, phone number, address and/or email address so that we can reach you should we need clarification about your concerns.

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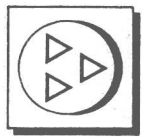
Diagramming Conventions



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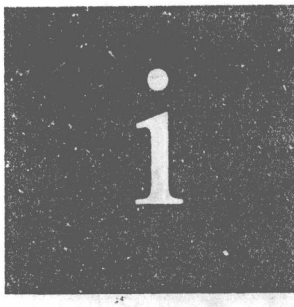
SQL Server



Course Overview

System 11 Fast Track to SQL Server

Version 1.0

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System 11 Fast Track to SQL Server Objective

Learn and practice the skills for developing an application for SQL Server using Transact-SQL, in a client/server environment

Course Roadmap

UNIT 1

Introduction to SQL Server

Module 1 Introduction to SQL Server

Module 2 What SQL Server Can Do For You

Module 3 Relational Database Concepts

Module 4 Accessing the SQL Server

UNIT 2

Creating Tables and Database Integrity

Module 5 Simple Table Creation

Module 6 Other Ways to Create Tables

Module 7 Create Table with Data and Referential Integrity

Module 8 Data Integrity and Rules, Defaults and Indexes

UNIT 3

Manipulating and Modifying Data

Module 9 Modifying Data

Module 10 Manipulating Data

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Course Roadmap (continued)

UNIT 4

Programming SQL Server

Module 11 Introduction to Programming SQL Server Using Transact-SQ:

Module 12 Transaction Management

Module 13 Cursors

Module 14 Stored Procedures

Module 15 Triggers

Module 16 Overview of Server Administration Tasks

Know Your Manuals

- The complete set of SQL Server documentation consists of:
  - SQL Server Reference Manual, Volume 1: Commands, Functions, Topics
  - SQL Server Reference Manual, Volume 2: System Procedures and Catalog Stored Procedures
  - SQL Server Refernce Supplement
  - SQL Server System Administration Guide
  - Transact-SQL User's Guide
  - SQL Server Performance and Tuning Guide
  - SQL Server Troubleshooting Guide
  - SQL Server Security Administration Guide
  - SQL Server Security Features User's Guide
  - Whats's New in SYBASE SQL Server Release 11.0?
  - Release Bulletins
- Get to know the manuals
  - Use your copies of the SQL Server Reference Manual, Volumes 1 and 2
  - Always read the Release Bulletins for late-breaking tips

Unit I

Introduction to SQL Server

Course Map

Unit I: Introduction to SQL Server

1. **Introduction to SQL Server**
2. **What SQL Server Can Do For You**
3. **Relational Database Concepts**
4. **Accessing the SQL Server**

Unit II: Creating Tables and Database Integrity

5. Simple Table Creation
6. Other Ways to Creat Tables
7. Create Table with Data and Referential Integrity
8. Data Integrity and Rules, Defaults and Indexes

Unit III: Manipulating and Modifying Data

9. Modifying Data
10. Manipulating Data

Unit IV: Programming SQL Server

11. Introduction to Programming SQL Server Using Transact-SQL
12. Transaction Management
13. Cursors
14. Stored Procedures
15. Trigger

Unit V: Introduction to Server Administration

16. Overview of Server Administration Tasks

1

Overview of Client/Server Architecture

System 11 Fast Track to SQL Server

Version 1.0

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