

Ben Forta

**FIFTH  
EDITION**

**FULL COLOR**

Now with challenge  
questions to gauge  
and improve  
proficiency.

Sams **Teach Yourself**

# SQL

in **10**  
**Minutes**



Ben Forta

Sams **Teach Yourself**

# SQL

in **10 Minutes**

**Fifth Edition**

**SAMS**

221 River Street, Hoboken, NJ 07030

# SQL in 10 Minutes a Day, Sams Teach Yourself

## Table of Contents

Cover

Title Page

Copyright Page

Contents at a Glance

Table of Contents

About the Author

Acknowledgments

We Want to Hear from You!

Reader Services

Introduction

Who Is the Teach Yourself SQL Book For?

DBMSs Covered in This Book

Conventions Used in This Book

1 Understanding SQL

Database Basics

What Is SQL?

Try It Yourself

Summary

2 Retrieving Data

# **Table of Contents**

- The SELECT Statement
- Retrieving Individual Columns
- Retrieving Multiple Columns
- Retrieving All Columns
- Retrieving Distinct Rows
- Limiting Results
- Using Comments
- Summary
- Challenges

## **3 Sorting Retrieved Data**

- Sorting Data
- Sorting by Multiple Columns
- Sorting by Column Position
- Specifying Sort Direction
- Summary
- Challenges

## **4 Filtering Data**

- Using the WHERE Clause
- The WHERE Clause Operators
- Summary
- Challenges

## **5 Advanced Data Filtering**

- Combining WHERE Clauses
- Using the IN Operator
- Using the NOT Operator
- Summary

# **Table of Contents**

Challenges

## **6 Using Wildcard Filtering**

Using the LIKE Operator

Tips for Using Wildcards

Summary

Challenges

## **7 Creating Calculated Fields**

Understanding Calculated Fields

Concatenating Fields

Performing Mathematical Calculations

Summary

Challenges

## **8 Using Data Manipulation Functions**

Understanding Functions

Using Functions

Summary

Challenges

## **9 Summarizing Data**

Using Aggregate Functions

Aggregates on Distinct Values

Combining Aggregate Functions

Summary

Challenges

## **10 Grouping Data**

Understanding Data Grouping

Creating Groups

# **Table of Contents**

Filtering Groups

Grouping and Sorting

SELECT Clause Ordering

Summary

Challenges

## **11 Working with Subqueries**

Understanding Subqueries

Filtering by Subquery

Using Subqueries as Calculated Fields

Summary

Challenges

## **12 Joining Tables**

Understanding Joins

Creating a Join

Summary

Challenges

## **13 Creating Advanced Joins**

Using Table Aliases

Using Different Join Types

Using Joins with Aggregate Functions

Using Joins and Join Conditions

Summary

Challenges

## **14 Combining Queries**

Understanding Combined Queries

Creating Combined Queries

# **Table of Contents**

Summary

Challenges

## **15 Inserting Data**

Understanding Data Insertion

Copying from One Table to Another

Summary

Challenges

## **16 Updating and Deleting Data**

Updating Data

Deleting Data

Guidelines for Updating and Deleting Data

Summary

Challenges

## **17 Creating and Manipulating Tables**

Creating Tables

Updating Tables

Deleting Tables

Renaming Tables

Summary

Challenges

## **18 Using Views**

Understanding Views

Creating Views

Summary

Challenges

## **19 Working with Stored Procedures**

# **Table of Contents**

Understanding Stored Procedures

Understanding Why to Use Stored Procedures

Executing Stored Procedures

Creating Stored Procedures

Summary

## **20 Managing Transaction Processing**

Understanding Transaction Processing

Controlling Transactions

Summary

## **21 Using Cursors**

Understanding Cursors

Working with Cursors

Summary

## **22 Understanding Advanced SQL Features**

Understanding Constraints

Understanding Indexes

Understanding Triggers

Database Security

Summary

## **A: Sample Table Scripts**

Understanding the Sample Tables

Obtaining the Sample Tables

## **B: SQL Statement Syntax**

ALTER TABLE

COMMIT

CREATE INDEX



# **Table of Contents**

CREATE PROCEDURE

CREATE TABLE

CREATE VIEW

DELETE

DROP

INSERT

INSERT SELECT

ROLLBACK

SELECT

UPDATE

C: Using SQL Datatypes

String Datatypes

Numeric Datatypes

Date and Time Datatypes

Binary Datatypes

D: SQL Reserved Words

Index