

CONTENTS

Preface ix

About the Authors..... xiii

Chapter 1 Introduction1

Chapter 2 The Entity–Relationship Model13

Chapter 3 The Unified Modeling Language35

**Chapter 4 Requirements Analysis and Conceptual
Data Modeling55**

Chapter 5 Transforming the Conceptual Data Model to SQL85

Chapter 6 Normalization109

Chapter 7 An Example of Logical Database Design131

Chapter 8 Object-Relational Design139

Chapter 9 XML and Web Databases161

Chapter 10 Business Intelligence189

Chapter 11 CASE Tools for Logical Database Design233

Appendix: The Basics of SQL.....261

References279

Exercises285

Solutions to Selected Exercises	291
Glossary	295
Index.	301
Chapter 3: Query Optimization and Plan Selection.	3
Appendix A: A Simple Performance Model for Databases.	1