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Creating an SQL Server 2012 Database
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SQL Server 2012 SQL Statements and SQL Scripts
Creating and Populating the View Ridge Gallery Database Tables

SQL Server Application Logic
  Transact-SQL • User-Defined Functions • Stored Procedures • Triggers
Concurrency Control
  Transaction Isolation Level • Cursor Concurrency • Locking Hints
SQL Server 2012 Security
  SQL Server Database Security Settings
SQL Server 2012 Backup and Recovery
  Backing Up a Database • SQL Server Recovery Models • Restoring a Database • Database Maintenance Plans

Topics Not Discussed in This Chapter

Summary • Key Terms • Review Questions • Project Questions • Case Questions • The Queen Anne Curiosity Shop • Morgan Importing

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  User Privileges • Creating a User Account • Creating a Role
Oracle Application Development Tools
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Creating and Populating the View Ridge Gallery Database Tables
  Creating the View Ridge Gallery Database Table Structure • Transaction COMMIT in Oracle Database • Reviewing Database Structures in the SQL Developer GUI Display • Indexes • Populating the VRG Tables • Creating Views
Oracle Database Application Logic
  Oracle Database PL/SQL • User-Defined Functions • Stored Procedures • Triggers
Oracle Database Concurrency Control
  Read-Committed Transaction Isolation Level • Serializable Transaction Isolation Level • Read-Only Transaction Isolation • Additional Locking Comments
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Topics Not Discussed in This Chapter

Summary • Key Terms • Review Questions • Project Questions • Case Questions • The Queen Anne Curiosity Shop • Morgan Importing
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  Creating a Workspace for the MySQL Workbench Files
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Creating and Populating the View Ridge Gallery Database Tables
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Relationships Among Tables
Creating a Microsoft Access Database
The Microsoft Office Fluent User Interface
  The Ribbon and Command Tabs • Contextual Command Tabs • Modifying the Quick
  Access Toolbar • Database Objects and the Navigation Pane
Closing a Database and Exiting Microsoft Access
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Opening an Existing Microsoft Access Database
Creating Microsoft Access Database Tables
Inserting Data into Tables—The Datasheet View
Creating Relationships Between Tables
Working with Microsoft Access Queries
Microsoft Access Forms and Reports
Closing a Database and Exiting Microsoft Access 2013

Key Terms • Review Questions

Appendix B: Getting Started with Systems Analysis and Design

Chapter Objectives
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What Is Information?
What Is an Information System?
What Is a Competitive Strategy?
How Does a Company Organize Itself Based on Its Competitive Strategy?
What Is a Business Process?
How Do Information Systems Support Business Processes?
Do Information Systems Include Processes?
Do We Have to Understand Business Processes in Order to Create Information Systems?
What Is Systems Analysis and Design?
What Are the Steps in the SDLC?

The Ribbon and Command Tabs • The System Definition Step
The Requirements Analysis Step • The Component Design Step
The Implementation Step • The System Maintenance Step

What SDLC Details Do We Need to Know?
What Is Business Process Modeling Notation?
What Is Project Scope?
How Do I Gather Data and Information About System Requirements?
How Do Use Cases Provide Data and Information About System Requirements?
The Highline University Database

The College Report • The Department Report • The Department/Major Report
The Student Acceptance Letter

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Key Terms • Review Questions • Project Questions

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IDEFIX Entities
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Nonidentifying Connection Relationships • Identifying Connection Relationships
Nonspecific Relationships • Categorization Relationships

Domains
Domains Reduce Ambiguity • Domains Are Useful • Base Domains and Typed Domains

Key Terms • Review Questions
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Chapter Objectives
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Representation of Weak Entities
Representation of Subtypes
OOP Constructs Introduced by UML
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Key Terms • Review Questions

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Why Should I Learn to Use the MySQL Workbench Data Modeling Tools?
What Will This Appendix Teach Me?
What Won't This Appendix Teach Me?
How Do I Start the MySQL Workbench?
How Do I Create a Workspace for the MySQL Workbench Files?
How Do I Install the MySQL Connector/ODBC?
How Do I Create Database Designs in the MySQL Workbench?
How Do I Create a Database Model and E-R Diagram in the MySQL Workbench?

Key Terms • Review Questions • Project Questions

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Why Should I Learn to Use Microsoft Visio 2013?
What Will This Appendix Teach Me?
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Key Terms • Review Questions • Project Questions

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Key Terms • Review Questions
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  • Parent/Subtype Objects • Archetype/Version Objects
Comparing the Semantic Object and the E-R Models

Key Terms • Review Questions

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Chapter Objectives
What Is the Purpose of This Appendix?
How Do I Install a Web Server?
How Do I Set Up IIS in Windows 7 and Windows 8?
How Do I Manage IIS in Windows 7 and Windows 8?
How Is a Web Site Structured?
How Do I View a Web Page from the IIS Web Server?
How Is Web Site Security Managed?
What Is the Eclipse PDT?
How Do I Install the Eclipse PDT?
What Is PHP?
How Do I Install PHP?
How Do I Create a Web Page Using the Eclipse PDT?
How Do I Manage the PHP Configuration?

Key Terms • Review Questions • Project Questions

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What Is the Purpose of This Appendix?
Business Intelligence Systems
Reporting Systems and Data Mining Applications
  Reporting Systems • Data Mining Applications
The Components of a Data Warehouse
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Reporting Systems
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  • Report Types • Report Media • Report Modes
  • Report System Functions • OLAP
Data Mining
  Unsupervised Data Mining • Supervised Data Mining • Three Popular Data Mining Techniques • Market Basket Analysis
Key Terms • Review Questions • Project Questions • Case Questions
  • The Queen Anne Curiosity Shop • Morgan Importing