

<<数据库系统基础教程>>

图书基本信息

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内容概要

本书由美国斯坦福大学知名计算机科学家Jeffrey Ullman和Jennifer Widom合作编写。书中介绍了核心DBMS概念、理论和模型，描述了如何使用抽象语言和SQL查询与更新DBMS。在介绍了SQL扩展内容（包括嵌入式SQL程序设计和对象关系特征）后，又介绍了使用XML的系统。设计语言包括XML模式，查询语言包括XPath和XQuery。

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作者简介

Jeffrey D. Ullman斯坦福大学计算机科学系。Stanford W. Ascherman教授，数据库技术专家。他独立或与人合作出版了15本著作，发表了170多篇技术论文。他的研究兴趣包括数据库理论、数据库集成、数据挖掘和利用信息基础设施进行教育。他是美国国家工程院成员，曾获得Knuth

书籍目录

1 The Worlds of Database Systems 1.1 The Evolution of Database Systems 1.1.1 Early Database Management Systems 1.1.2 Relational Database Systems 1.1.3 Smaller and Smaller Systems 1.1.4 Bigger and Bigger Systems 1.1.5 Information Integration 1.2 Overview of a Database Management System 1.2.1 Data-Definition Language Commands 1.2.2 Overview of Query Processing 1.2.3 Storage and Buffer Management 1.2.4 Transaction Processing 1.2.5 The Query Processor 1.3 Outline of Database-System Studies 1.4 References for Chapter 1 Relational Database Modeling

2 The Relational Model of Data 2.1 An Overview of Data Models 2.1.1 What is a Data Model? 2.1.2 Important Data Models 2.1.3 The Relational Model in Brief 2.1.4 The Semistructured Model in Brief 2.1.5 Other Data Models 2.1.6 Comparison of Modeling Approaches 2.2 Basics of the Relational Model 2.2.1 Attributes 2.2.2 Schemas 2.2.3 Tuples 2.2.4 Domains 2.2.5 Equivalent Representations of a Relation 2.2.6 Relation Instances 2.2.7 Keys of Relations 2.2.8 An Example Database Schema 2.2.9 Exercises for Section 2.2 2.3 Defining a Relation Schema in SQL 2.3.1 Relations in SQL 2.3.2 Data Types 2.3.3 Simple Table Declarations 2.3.4 Modifying Relation Schemas 2.3.5 Default Values 2.3.6 Declaring Keys 2.3.7 Exercises for Section 2.3 2.4 An Algebraic Query Language 2.4.1 Why Do We Need a Special Query Language? 2.4.2 What is an Algebra? 2.4.3 Overview of Relational Algebra 2.4.4 Set Operations on Relations 2.4.5 Projection 2.4.6 Selection 2.4.7 Cartesian Product 2.4.8 Natural Joins 2.4.9 Theta-Joins 2.4.10 Combining Operations to Form Queries 2.4.11 Naming and Renaming 2.4.12 Relationships Among Operations 2.4.13 A Linear Notation for Algebraic Expressions 2.4.14 Exercises for Section 2.4 2.5 Constraints on Relations 2.5.1 Relational Algebra as a Constraint Language 2.5.2 Referential Integrity Constraints 2.5.3 Key Constraints 2.5.4 Additional Constraint Examples 2.5.5 Exercises for Section 2.5 2.6 Summary of Chapter 2 2.7 References for Chapter 23 Design Theory for Relational Databases 3.1 Functional Dependencies 3.1.1 Definition of Functional Dependency 3.1.2 Keys of Relations 3.1.3 Superkeys 3.1.4 Exercises for Section 3.1 3.2 Rules About Functional Dependencies 3.2.1 Reasoning About Functional Dependencies 3.2.2 The Splitting/Combining Rule4 High-Level Database Models

5 Algebraic and Logical Query Languages

6 The Database Language SQL

7 Constraints and Triggers

8 Views and Indexes

9 SQL in a Server Environment

10 Advanced Topics in Relational Databases

11 The Semistructured-Data Model

12 Programming Languages for XML

Index

章节摘录

4.6.3 Using Null Values to Combine Relations There is one more approach to representing information about a hierarchy of entity sets. If we are allowed to use NULL (the null value as in SQL) as a value in tuples, we can handle a hierarchy of entity sets with a single relation. This relation has all the attributes belonging to any entity set of the hierarchy. An entity is then represented by a single tuple. This tuple has NULL in each attribute that is not defined for that entity. Example 4.33: If we applied this approach to the diagram of Fig. 4.31, we would create a single relation whose schema is: Movie (title, year, length, genre, weapon). Those movies that are not murder mysteries would have NULL in the weapon component of their tuple. It would also be necessary to have a relation Voice to connect those movies that are cartoons to the stars performing the voices, as in Example.

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