

<<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

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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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