

Database Systems A Practical Approach to Design Implementation and Management 6th Edition Connolly Solutions Manual

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Chapter 2 Database Environment

Review Questions

2.1 Discuss the concept of data independence and explain its importance in a database environment.

See Section 2.1.3

2.2 To address the issue of data independence, the ANSI-SPARC three-level architecture was proposed. Compare and contrast the three levels of this model.

See Section 2.1

2.3 What is a data model? Discuss the main types of data models.

An integrated collection of concepts for describing and manipulating data, relationships between data, and constraints on the data in an organization. See Section 2.3.

Object-based data models such as the Entity-Relationship model (see Section 2.3.1); Record-based data models such as the relational data model, network data model, and hierarchical data model (see Section 2.3.2); Physical data models describe how data is stored in the computer (see Section 2.3.3).

2.4 Discuss the function and importance of conceptual modeling.

See Section 2.3.4.

2.5 Describe the types of facility you would expect to be provided in a multi-user DBMS.

Data Storage, Retrieval and Update
A User-Accessible Catalog
Transaction Support
Concurrency Control Services
Recovery Services

Authorization Services
Support for Data Communication
Integrity Services
Services to Promote Data Independence
Utility Services

Connolly Database System Instructor Guide

JG Myers



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Database Systems Thomas M. Connolly, Carolyn E. Begg, 2002 This text includes material on distributed databases object oriented databases data mining data warehouses multimedia databases and the Internet and provides a strong foundation in good design practice Instructor's Manual for Database Systems Connolly, 1995-11-01 **Monthly Catalogue, United States Public Documents** ,1982 *Monthly Catalog of United States Government Publications* ,1982 **Instructor's Manual to Accompany Writing and Learning** Anne Ruggles Gere, 1988 *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1960 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December **Resources in Education** ,1980 Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office Library of Congress. Copyright Office, 1977
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