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Autore	Boucher Thomas O
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MANAGEMENT SYSTEM (DBMS); 2.3 THE RELATIONAL DATABASE VIEWED AS A SET OF TABLES; 2.4 KEY ATTRIBUTES AND LINKING TABLES; 2.5 STRUCTURED QUERY LANGUAGE (SQL)
2.5.1 SQL: CREATING THE DATABASE AND TABLE STRUCTURE 2.5.2 SQL: MANAGING THE DATA IN THE DATABASE TABLE; 2.5.3 SQL: CONVERTING DATA INTO INFORMATION; 2.6 SUMMARY; REVIEW EXERCISES; APPENDIX 2A QUERY BY EXAMPLE; 3 Data Modeling; 3.1 INTRODUCTION; 3.2 ENTITY-RELATIONSHIP (E-R) MODELING; 3.2.1 E-R MODELING PRIMITIVES; 3.2.2 THE DEGREE OF A RELATIONSHIP; 3.2.3 COMPOSITE ENTITIES; 3.2.4 RECURSIVE ENTITIES; 3.2.5 SUPERCLASS AND SUBCLASS ENTITY TYPES; 3.3 CASE STUDY IN DATA MODELING; 3.4 NORMALIZATION; 3.4.1 INSERTION ANOMALIES; 3.4.2 DELETION ANOMALIES; 3.4.3 UPDATE ANOMALIES; 3.4.4 NORMAL FORMS 3.5 SUMMARY REVIEW EXERCISES; CASE STUDIES; 4 Structured Analysis and Functional Architecture Design; 4.1 INTRODUCTION; 4.2 FUNCTIONAL ARCHITECTURE AND BUSINESS PROCESS REDESIGN; 4.3 IDEF0 METHODOLOGY MODELING PRIMITIVES; 4.4 IDEF0 HIERARCHIC DECOMPOSITION; 4.4.1 HIERARCHIC DECOMPOSITION ILLUSTRATED: NODE A0; 4.4.2 DECOMPOSITION OF NODE A0; 4.4.3 DECOMPOSITION OF NODE A3; 4.4.4 DECOMPOSITION OF NODE A31; 4.5 THE PROCESS OF MODEL DEVELOPMENT AND VALIDATION; 4.6 DATA FLOW DIAGRAMS: AN ALTERNATIVE STRUCTURED ANALYSIS METHODOLOGY; 4.6.1 DFA MODELING PRIMITIVES 4.6.2 HIERARCHIC DECOMPOSITION IN DFA 4.6.3 HIERARCHIC DECOMPOSITION ILLUSTRATED: NODE A32; 4.6.4 DECOMPOSITION OF CONTEXT DATA FLOW DIAGRAM; 4.7 SUMMARY; REVIEW EXERCISES; CASE STUDIES; 5 Informational Architecture and Logical Database Design; 5.1 INTRODUCTION; 5.2 THE IDEF REPRESENTATION OF ENTITY-RELATIONSHIP MODELING; 5.3 A CASE STUDY IN DEVELOPING A DATA MODEL; 5.3.1 ANALYSIS OF INFORMATION REQUIREMENTS AT NODE A311; 5.3.2 ANALYSIS OF INFORMATION REQUIREMENTS AT NODE A313; 5.3.3 ANALYSIS OF INFORMATION REQUIREMENTS FOR THE CONTROL OF STORED MATERIALS; 5.4 SUMMARY; REVIEW EXERCISES CASE STUDIES

Sommario/riassunto

Design of Industrial Information Systems presents a body of knowledge applicable to many aspects of industrial and manufacturing systems. New software systems, such as Enterprise Resource Planning, and new hardware technologies, such as RFID, have made it possible to integrate what were separate IT databases and operations into one system to realize the greatest possible operational efficiencies. This text provides a background in, and an introduction to, the relevant information technologies and shows how they are used to model and implement integrated IT systems. With the growth of c

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