Ramakrishnan - Database Management Systems 3rd Edition

Part I FOUNDATIONS

Chapter 1 (10)
OVERVIEW OF DATABASE SYSTEMS

Chapter 2 (10)
INTRODUCTION TO DATABASE DESIGN

Chapter 3 (11)
THE RELATIONAL MODEL

Chapter 4 (11)
RELATIONAL ALGEBRA AND CALCULUS

Chapter 5 (12)
SQL: QUERIES, CONSTRAINTS, TRIGGERS

Part II APPLICATION DEVELOPMENT

Chapter 6 (13)
DATABASE APPLICATION DEVELOPMENT

Chapter 7 (13)
INTERNET APPLICATIONS

Part III STORAGE AND INDEXING

Chapter 8 (14)
OVERVIEW OF STORAGE AND INDEXING

Chapter 9 (14)
STORING DATA: DISKS AND FILES

Chapter 10 (15)
TREE-STRUCTURED INDEXING

Chapter 11 (15)
HASH-BASED INDEXING

Part IV QUERY EVALUATION

Chapter 12 (16)
OVERVIEW OF QUERY EVALUATION

Chapter 13 (16)
EXTERNAL SORTING

Chapter 14 (16)
EVALUATING RELATIONAL OPERATORS

Chapter 15 (17)
A TYPICAL RELATIONAL QUERY OPTIMIZER

Part V TRANSACTION MANAGEMENT

Chapter 16 (18)
OVERVIEW OF TRANSACTION MANAGEMENT

Chapter 17 (18)
CONCURRENCY CONTROL

Chapter 18 (19)
CRASH RECOVERY

Part VI DATABASE DESIGN AND TUNING

Chapter 19 (19)
SCHEMA REFINEMENT AND NORMAL FORMS

Chapter 20 (20)
PHYSICAL DATABASE DESIGN AND TUNING

Chapter 21 (20)
SECURITY AND AUTHORIZATION

Part VII ADDITIONAL TOPICS

Chapter 22 (21)
PARALLEL AND DISTRIBUTED DATABASES

Chapter 23 (22)
OBJECT-DATABASE SYSTEMS

Chapter 24 (23)
DEDUCTIVE DATABASES

Chapter 25 (23)
DATA WAREHOUSING AND DECISION SUPPORT

Chapter 26 (24)
DATA MINING

Chapter 27 (24)
INFORMATION RETRIEVAL AND XML DATA

Chapter 28 (25)
SPATIAL DATA MANAGEMENT

Chapter 29 (26)
FURTHER READING

Chapter 30 (26)
THE MINIBASE SOFTWARE