Part 3
Contemporary Issues

Part 3 consists of two chapters that discuss two contemporary issues, namely, the tuning principles of data warehouses and of Web-based databases. The tuning principles of an OLTP database are substantially the same as those for a data warehouse or a Web-based database. In this part we capture only those tools and techniques that are unique to these two special types of databases.

Chapter 11 starts with a discussion of the design principles of a data warehouse and identifies the structural differences between a transactional database and a data warehouse. It then introduces the data loading principles for a data warehouse. The chapter closes with a discussion of the tuning principles for a data warehouse at the internal and external levels.

Chapter 12 starts with an introduction to the three-tier and n-tier architectures of client server applications with emphasis on Web-based applications. The Oracle product OAS is discussed in detail and an overview is offered of the new product iAS. The chapter closes with a discussion of the tuning principles for a Web-based database at the internal and external levels.