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Normal Form (2NF); 2.4 Third Normal Form (3NF); 2.5 Elementary Key Normal Form (EKNF); 2.6 Boyce-Codd Normal Form (BCNF); 2.7 Fourth Normal Form (4NF); 2.8 Fifth Normal Form (5NF); 2.9 Domain-Key Normal Form (DKNF); 2.10 Practical Hints for Normalization; 2.11 Key Types; 2.11.1 Natural Keys; 2.11.2 Artificial Keys; 2.11.3 Exposed Physical Locators; 2.11.4 Practical Hints for Denormalization; 2.11.5 Row Sorting; 3 Numeric Data in SQL; 3.1 Numeric Types 3.1.1 BIT, BYTE, and BOOLEAN Data Types 3.2 Numeric Type Conversion; 3.2.1 Rounding and Truncating; 3.2.2 CAST() Function; 3.3 Four-Function Arithmetic; 3.4 Arithmetic and NULLs; 3.5 Converting Values to and from NULL; 3.5.1 NULLIF() Function; 3.5.2 COALESCE() Function; 3.6 Vendor Math Functions; 3.6.1 Number Theory Operators; 3.6.2 Exponential Functions; 3.6.3 Scaling Functions; 3.6.4 Converting Numbers to Words; 4 Temporal Data Types in SQL; 4.1 Notes on Calendar Standards; 4.2 SQL Temporal Data Types; 4.2.1 Tips for Handling Dates, Timestamps, and Times; 4.2.2 Date Format Standards 4.2.3 Handling Timestamps 4.2.4 Handling Times; 4.3 Queries with Date Arithmetic; 4.4 The Nature of Temporal Data Models; 4.4.1 Temporal Duplicates; 4.4.2 Temporal Databases; 4.4.3 Temporal Projection and Selection; 4.4.4 Temporal Joins; 4.4.5 Modifying Valid-Time State Tables; 4.4.6 Current Modifications; 4.4.7 Sequenced Modifications; 4.4.8 Nonsequenced Modifications; 4.4.9 Transaction-Time State Tables; 4.4.10 Maintaining the Audit Log; 4.4.11 Querying the Audit Log; 4.4.12 Modifying the Audit Log; 4.4.13 Bitemporal Tables; 4.4.14 Temporal Support in Standard SQL 5 Character Data Types in SQL

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#### Sommario/riassunto

SQL for Smarties was hailed as the first book devoted explicitly to the advanced techniques needed to transform an experienced SQL programmer into an expert. Now, 10 years later and in the third edition, this classic still reigns supreme as the book written by an SQL master that teaches future SQL masters. These are not just tips and techniques; Joe also offers the best solutions to old and new challenges and conveys the way you need to think in order to get the most out of SQL programming efforts for both correctness and performance. In the third edition, Joe features new examp

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