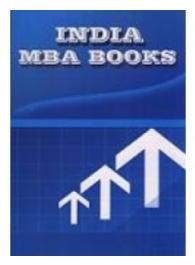# Database Management Systems

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Description

Organizational Development SOLVED PAPERS AND GUESS

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RATING OF BOOK: EXCELLENT

DATABASE MANAGEMENT SYSTEMS
SYLLABUS
UNIT I

Introduction - Data Models - Database languages - Transaction - Storage managementDatabase administrator - Users - overall system structure - Entity - Relationship ModelBasic concepts - Mapping constraints - keys - E-R Diagram - Weak Entity Sets- reduction
of E-R Diagram to tables.

UNIT II

Relational Model - structure - relational algebra - extended operations - Modifications on a database - views - SQL - basic structure - set operations - aggregate functions - Nested Sub queries - derived relations, views.

UNIT III

Integrity constraints - Domain constraints - referential integrity - assertions - triggers - functional dependencies - relational database design - decomposition - normalization using functional, multi valued, Join dependencies - Domain - Key Normal form - alternative
approaches.

UNIT IV

Object Oriented data Model - Languages - Object Relational databases: Nested RelationsComplex types and object Orientation - Querying with complex types - creation of complex
values and objects - comparison.

UNIT V

Database System Architectures : Centralized Systems, Client server systems, Distributed systems, Parallel databases - introduction - inter query - intra query, intra-operation - interoperation parallelism -distributed databases - distributed data storage - network transparency - Query processing - Transaction model - Commit protocols - coordinator selection - concurrency control - deadlock handling - multi database systems

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