

INTRODUCTION TO DATA MODELS

In DBMS data models define how the logical structure of a database is modeled. Data models define how data is connected to each other and how they are processed and stored inside the system.

Some of the most common ones include:

- Entity-relationship model.
- Relational model.
- Network model.
- Hierarchical database model.
- Object-oriented database model.

What is use of Data model?

A data model helps to reduce unnecessary columns, by constructing an optimal data structure with the fewest tables and columns.

It thus helps reduce system complexity and hence reduce cost. One of the most important aspects of any big data project is data modeling.

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5. Domains
6. Introduction to data models

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8. Relationship among entities
9. Tuples
10. Attributes
11. Relation
12. Keys
13. Relational Database
14. Twelve rules of CODD
15. Schemas
16. Integrity Constraints
17. Normalization
18. Functional dependency
19. Transaction processing concepts
20. Schedule
21. Serializability
22. OODBMS vs RDBMS
23. RDBMS
24. SQL join
25. SQL functions: SUM(), AVG(), MAX(), MIN(), COUNT().
26. Block, Extent, Segment
27. Oracle Background processes
28. Trigger
29. Oracle cursor
30. Introduction to Concurrency Control

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References:

1. Korth, Silbertz, Sudarshan, "Fundamental of Database System", McGraw Hill
2. Atul Kahate , " Introduction to Database Management System", Pearson Educations

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