
What is Relational Database and Relational Database Management System (RDBMS) ?



What is Relational Database...

- A *relational database* is a type of database and its based in relational model of data (E.F Codd in 1970).
- Stores and provides access to data points that are related to one another.
- To ensure that data is always accurate and accessible, relational databases follow certain integrity rules.
- The relational model means that the logical data structures—the data tables, views, and indexes—are separate from the physical storage structures.
- Data in a relational database is organized into tables also called Relation.

What is Relational Database...

products	itemID	itemName	itemPrice
	101	Chair	200.00
	102	Table	150.00
	103	Lamp	75.00

customerInfo	customerID	customerName	customerEmail
	A-100	Sarah	sarah@xyz.com
	B-201	Henry	henry@gmail.com
	B-290	David	david@123.com

customerOrder	orderID	itemID	customerID	dateOrdered	OrderTotal
	5001	101	B-201	04/27/2021	200.00
	5001	103	B-201	04/27/2021	75.00
	7890	102	A-100	01/01/2019	150.00



What is Relational Database Management System (RDBMS)...

- A relational database management system (RDBMS) is a program that allows you to create, update, and administer a relational database.
- Most relational database management systems use the SQL language to access the database.



Advantages of RDBMS...

- Enhanced Data Security.
- Retain Data Consistency.
- Better Flexibility and Scalability.
- Easy Maintenance.