

ACID Properties



Bank Account

Account_id	Name	Balance
10032	Jerry	10010
97801	Tom	1000
55463	Phil	19080.50

Transactions



Transaction is a single unit of work in RDBMS.

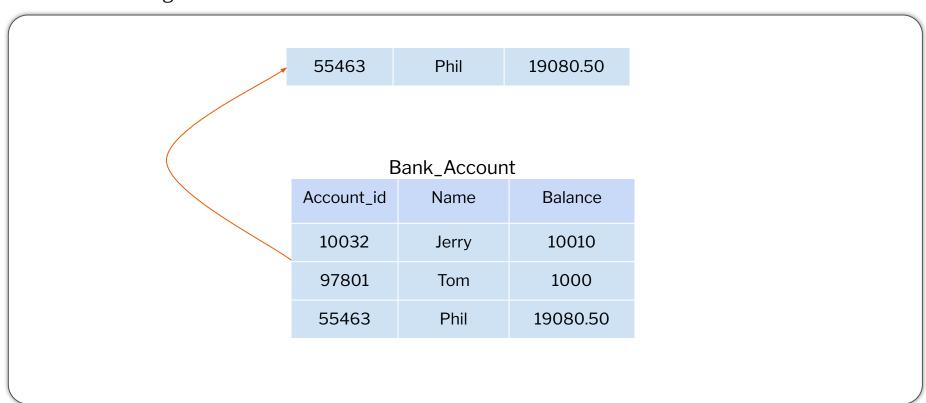
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Transactions



Transaction is a single unit of work in RDBMS.



ACID Properties



Transactions maintains ACID properties of an RDBMS.

Each transaction executes completely or not at all. **Atomicity** Data in database remains in consistent state before Consistency and after a transaction. Each transaction is isolated from other transactions. Isolation Modifications made by transactions should persist in Durability database even in case of system failure.

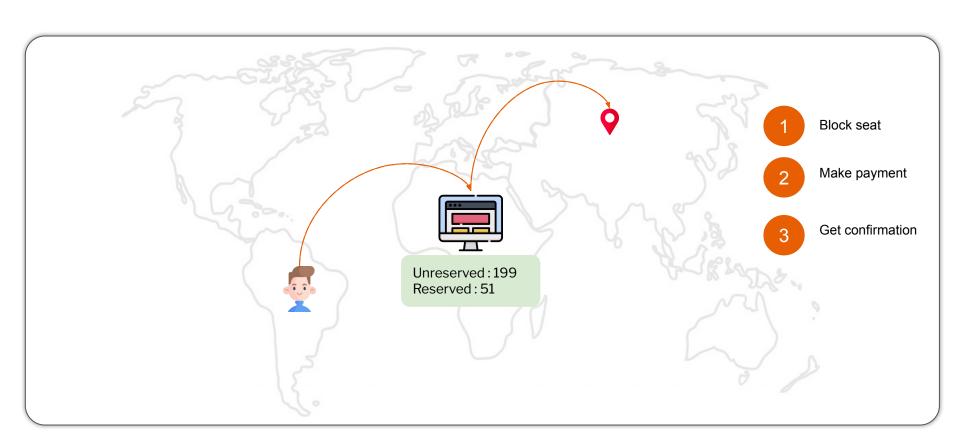




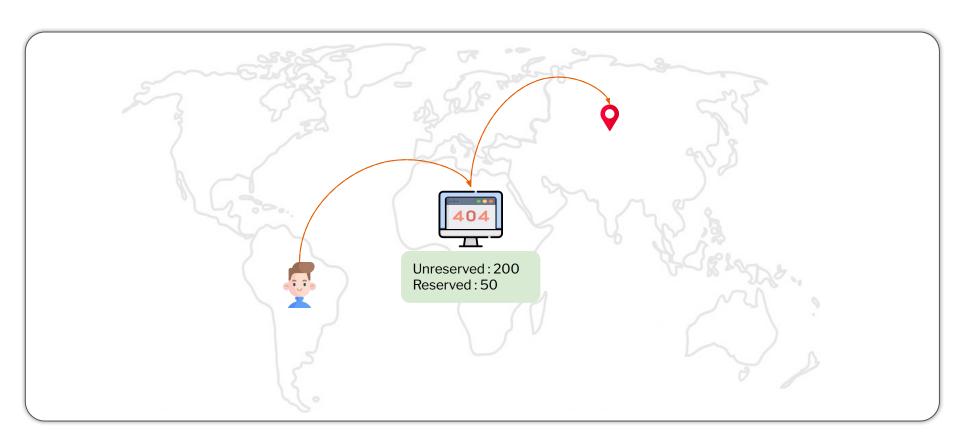








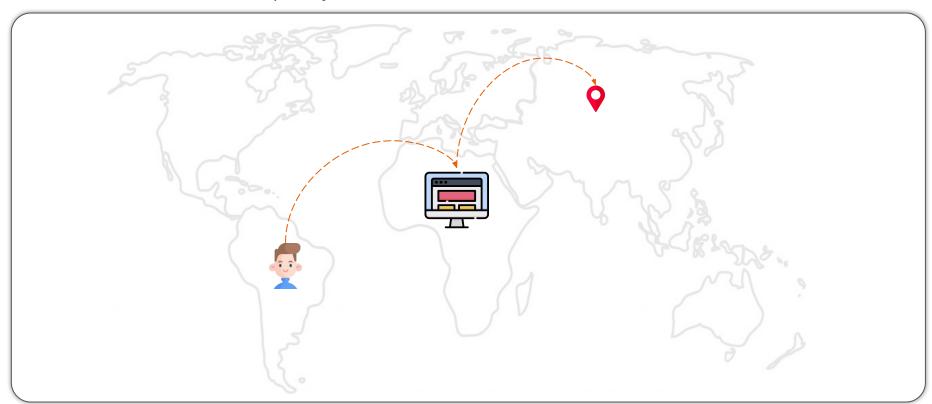




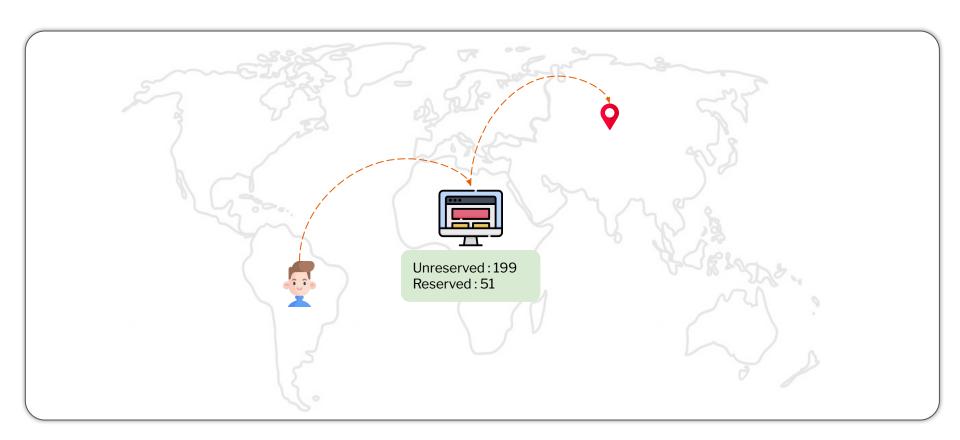
Atomicity



Each transaction executes completely or not at all.







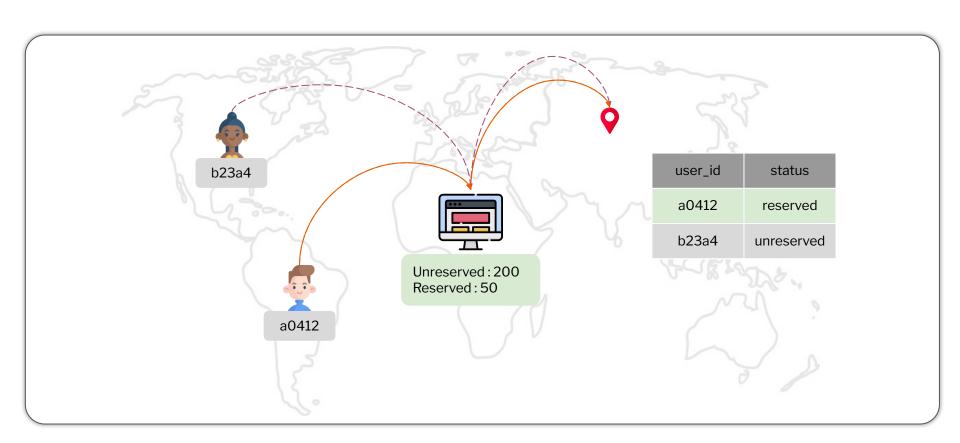
Consistency



Database remains in consistent state after changes are made by a transaction.



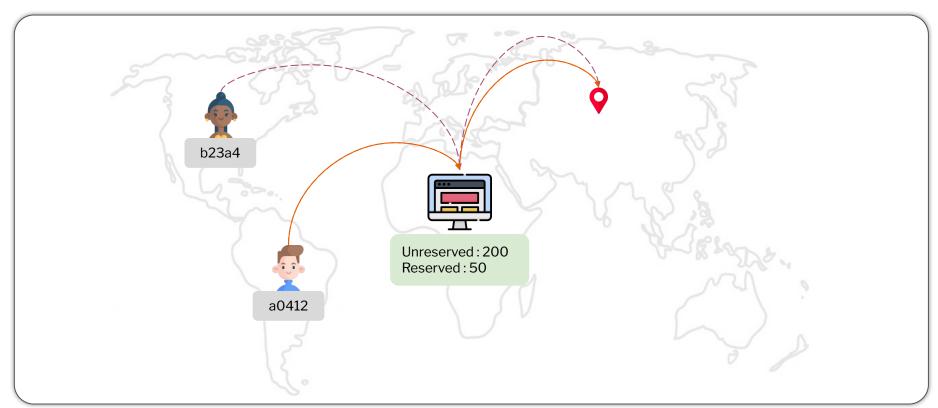




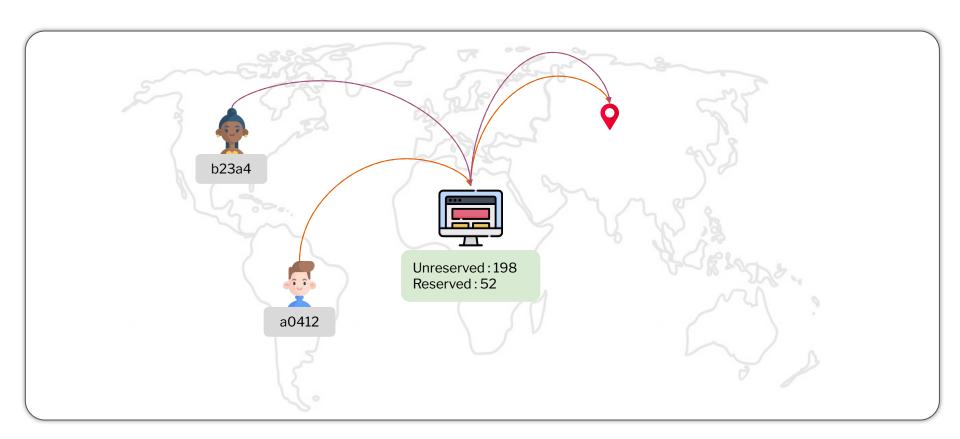
Isolation



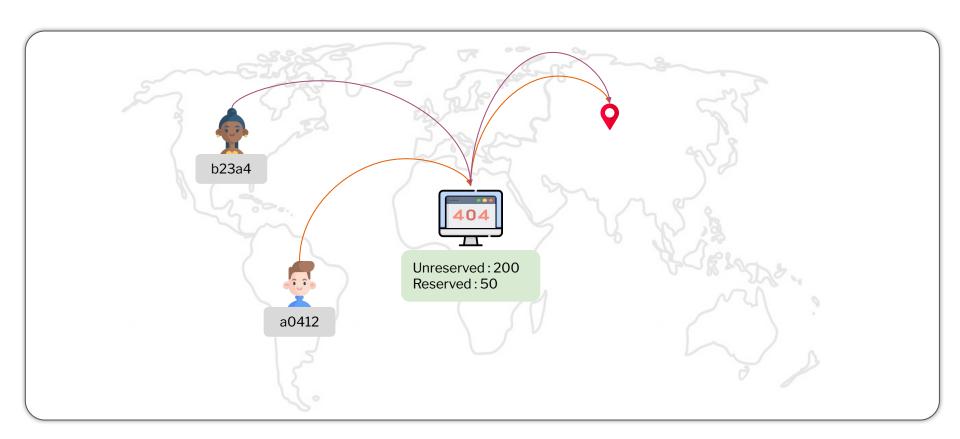
Each transaction is isolated from other transactions.







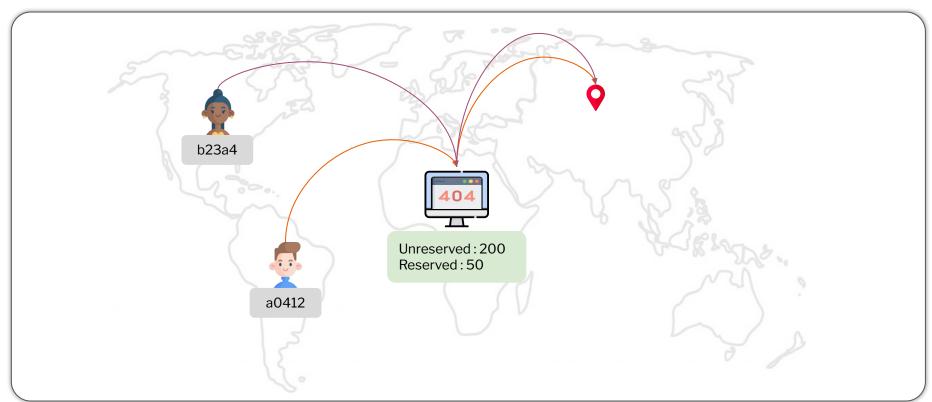




Durability



Modifications made by transactions should persist in database even in case of system failure.

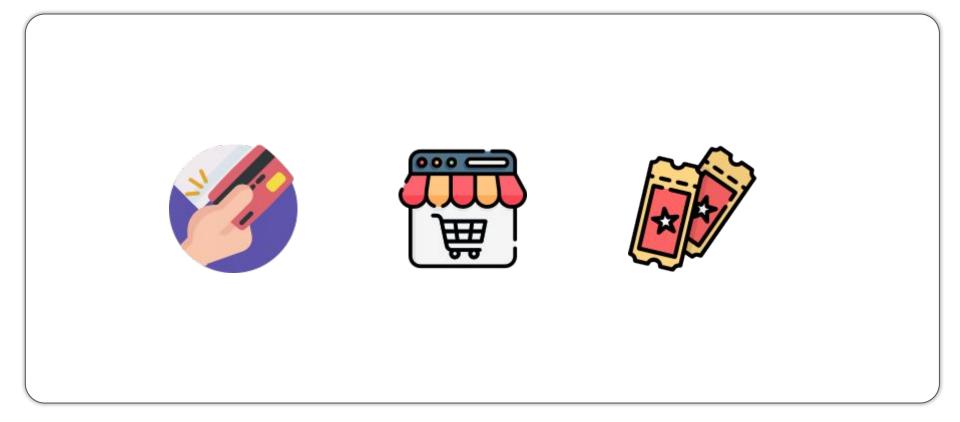


ACID Properties



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Thank You! Analytics Vidnya