

Knowledge Check 4: ACID Properties

Due No due date	Points 0	Questions 4
Time Limit None	Allowed Attempts Unlimited	

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Attempt History

	Attempt	Time	Score
LATEST	<u>Attempt 1</u>	1 minute	0 out of 0

Submitted Feb 7 at 7:45pm

Question 1

0 / 0 pts

What is a sequence of reads and writes from/to a database called?

☐ program

☐ Process

☐ Information

☒ Transaction

A database transaction is a sequence of reads and writes from/to the database.

Correct!

Question 2

0 / 0 pts

How does a database achieve concurrency?

Correct Answer☐ By interleaving transactions.☐ By putting transactions in a queue.**Not Answered**☒ By processing transactions at the same time.

This is not correct; a database needs a mechanism to process simultaneous transactions.

☐ By processing transactions as they come in.**Question 3****0 / 0 pts**

What are the four principles of database transactions?

☐ Atomicity, Concurrency, Isolation, Durability☐ Atomicity, Consistency, Integrity, Durability**Correct!**☒ Atomicity, Consistency, Isolation, Durability

These are the four principles that apply to all transactions.

Question 4**0 / 0 pts**

Which of the following describes the atomicity principle of database transactions?

☐ A database can only serve one user at a time.☐ A database can only process one query at a time.☐ A database can only process one transaction at a time.

Correct!

All of the components of a transaction run in their entirety, or none of them run at all.

This is the definition of atomicity.