

# Assignment Project Exam Help

https://eduassistpro.github.



#### **ACID Properties**

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• The execution of each transaction is atomic, i.e., either all

### https://eduassistpro.github.

Isolation:

Addition concluded the characteristic du\_assisty\_pr

- Durability:
  - Once a transaction has been successfully completed, its effects should persist in the database.

**Note:** These properties are not independent from one another, but **atomicity is the central property**.



#### **Atomicity**

### As Street, requires that we execute a transaction to completion with Trily 1p

- ALL: all the operations are executed;
- \* https://eduassistpro.github.

**Example**: The money can only be taken from Stev

# has been transferred into Bebie account. Addiscrete into Bebie account. Addiscrete into Bebie account. Addiscrete into Bebie account. Addiscrete into Bebie account.

before 1	\$1000	\$200
after 1	\$1000	\$200
after 2	\$500	\$200
after 3	\$500	\$200
after 4	\$500	\$700

All are executed.



#### **Atomicity**

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#### Consistency

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### 

Steve's account balance + Bob's account balance = \$1200,

A	Operations Seleie 1	Steve	<b>zat</b>
	after 1	\$1000	\$200
	after 2	\$500	\$200
	after 3	\$500	\$200
	after 4	\$500	\$700

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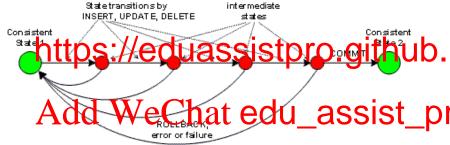
Not required to be consistent.

\$500+\$700=\$1200



#### Consistency 1

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 The database is in a consistent state before and after executing the transaction, but is not necessarily consistent in intermediate states.

<sup>1</sup> The figure is taken from http://maxdb.sap.com



#### **Isolation**

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#### Isolation <sup>2</sup>

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#### **Durability**

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- Durability requires that once the transaction is successfully completed, its ch
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- Example Office Title received the notification U\_assist\_property of the successfully transfer

the money can't go back to Steve's account and must appear in Bob's account.



#### **Durability** 3

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<sup>&</sup>lt;sup>3</sup>The figure is taken from http://toyhouse.cc/profiles/blogs/the-acid-properties-of-transactions