

Assignment Project Exam Help

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Transaction – A Classical Example

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Check Bob's balance:

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Steve later checked his balance (it was \$ However, Bob told Steve that he hadn't received his money yet (still \$200 in Bob's account instead of \$700).

Question: What did happen?



Transaction – A Classical Example

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Task: Transfer \$500 from Steve's account to Bob's account

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SET balance = balance-500

WHERE name = 'Seeve'; hat
SELECT balance FROM ACCOUNT
WHERE name = 'Bob';

UPDATE ACCOUNT
SET balance = balance+500
WHERE name = 'Bob';

Operation	ns	Steve	9	Bob		
_				\$200		
dii	2	99		200	h	
				\$200	וע	
				\$200		
after 4		\$500)	\$700		
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Transaction – A Classical Example

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- ASET Palance Part edu_assistant WHERE name='Steve';
- SELECT balance FROM Account
 WHERE name = 'Bob';
- UPDATE ACCOUNT
 SET balance = balance+500

,	uu a	2219	\$200	U
			\$200	
	after 2	\$500	\$200	
	after 3	\$500	\$200	
	after 4	\$500	\$700	

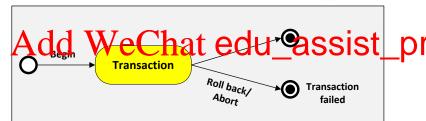
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What is a Transaction?

A kansaction is a sequence of database operations grouped together for execution as a logic unit in a DBMS.

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What is a Transaction?

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multiple users may modify and share data at t Aran action, where and modified U_assist_production of the control of the contro

- What does a transaction look like?
 - INSERT, SELECT, UPDATE, DELETE, BEGIN, COMMIT, ABORT (ROLLBACK), etc. from a high-level language perspective;
 - read, write, begin, commit, abort at the internal process level.



Transaction – Language Level

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UPDATE ACCOUNT

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SELECT balance FROM ACCOUNT W

UPDATE ACCOUNT SET balance = balance+500 WHERE name = 'Bob';

COMMIT



Transactions - Internal Process Level

Assisprenticent traperio (itale interne processing) a Help

read(X): loads object X into main memory;

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Other operations:

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- commit: signals a successful end of the tran safely be applied to the database permanently;
- abort: signals the transaction has ended unsuccessfully undo all operations of the transaction.



Transactions - Internal Process Level

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- SELECT balance FROM ACCOUNT WHERE name = 'Steve':
- T: UPDAT
- T: UPDAnttps://eduassistpro.github.
- Objects: A dd WeChat edu_assist_pr
 - balance:
 - B Bob's account balance.

read(B) write(B) (B:=B+500) commit