

Question 1
Answer saved
Marked out of 2
Flag question

The phenomenon in which one failure leads to a series of transaction rollbacks is called as _____

Select one:

- ☐ a. Cascadeless rollback
- ☐ b. None of the mentioned
- ☐ c. Cascade cause
- ☒ d. Cascading rollback

[Clear my choice](#)

Question 2
Answer saved
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Flag question

I and J are _____ if they are operations by different transactions on the same data item, and at least one of them is a write operation.

Select one:

- ☐ a. Isolated
- ☒ b. Conflicting
- ☐ c. Durable
- ☐ d. Overwriting

Question 3

Answer saved

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2

Flag
question

Which of the following are the advantages of transaction concurrency?

Select one:

- ☐ a. Increased throughput
- ☐ b. Increased utilization
- ☒ c. All of the mentioned
- ☐ d. Reduces average response time

[Clear my choice](#)

Question 4

Answer saved

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1

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question

State true or false: If $I = \text{read}(Q)$ and $J = \text{write}(Q)$ then the order of I and J does not matter.

Select one:

- ☐ a. True
- ☒ b. False

[Clear my choice](#)

Question **5**

Answer saved

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1

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question

If the database modifications occur while the transaction is still active, the transaction is said to use the _____ modification technique

Select one:

- ☐ a. Deferred
- ☐ b. More than one of the mentioned
- ☐ c. None of the mentioned
- ☒ d. Immediate

[Clear my choice](#)

Question 6
Answer saved
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Flag question

In case of transaction failure under a deferred update incremental logging scheme, which of the following will be needed?

- Select one:
- ☒ a. an undo operation
 - ☐ b. an undo and redo operation
 - ☐ c. a redo operation
 - ☐ d. Non of them

[Clear my choice](#)

Question 7
Answer saved
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Flag question

Consider the following schedule for transactions T1, T2 and T3:
Which one of the schedules below is the correct serialization of the below?

<u>T1</u>	<u>T2</u>	<u>T3</u>
Read (X)		
	Read (Y)	
	Write (Y)	Read (Y)
Write (X)		Write (X)
	Read (X)	
	Write (X)	

- ☒ a. T1>T2>T3
- ☐ b. T2>T1>T3
- ☐ c. T2>T3>T1
- ☐ d. T3>T2>T1

Question 8

Answer saved

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Flag question

means that you either commit to the entirety of the transaction occurring or having no transaction at all.

Select one:

- ☐ a. Isolation
- ☐ b. None of the mentioned
- ☐ c. Durability
- ☒ d. Atomicity

[Clear my choice](#)

Question 9

Answer saved

Marked out of 2

Remove flag

Determine the below transactions,
Suppose X = 90 , H=6 and T=8
What will be the final X value that will be saved to database

T7	T8
read (X);	
X:=X-H;	
Read(Y);	
	read (X)
	X:=X+T;
write (X);	
	write(X)
Y:=Y+20;	
write (Y);	
Commit	
	Commit

Select one:

- ☐ a. 104
- ☐ b. 96
- ☒ c. 98
- ☐ d. 92

Question **10**

Answer saved

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2

🚩 Flag
question

Which of the following is not a property of transactions?

Select one:

☒ a. All of the mentioned

☐ b. Undo

☐ c. Active

☐ d. commit

[Clear my choice](#)

Question 11

Answer saved

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1

Flag
question

Which Of three schemas used in three-schema model represents how users view database?

Select one:

- ☒ a. External
- ☐ b. Implementation
- ☐ c. Internal
- ☒ d. Conceptual

[Clear my choice](#)

Question 12

Answer saved

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2

Flag
question

A _____ of the transactions can be obtained by finding a linear order consistent with the partial order of the precedence graph.

Select one:

- ☐ a. Precedence graph
- ☐ b. Scheduling scheme
- ☒ c. Serializability order
- ☐ d. Direction graph

[Clear my choice](#)

Question **13**
Answer saved
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1
 Flag
question

State true or false: Transactions can only run serially

Select one:

- ☐ a. True
- ☒ b. False

[Clear my choice](#)

Question **14**
Answer saved
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1
 Flag
question

State true or false: Information residing in the volatile storage does not usually survive system crashes

Select one:

- ☐ a. False
- ☒ b. True

[Clear my choice](#)

Question **15**
Answer saved
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1
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question

Which of three schemas used in three-schema model shows physical storage using a particular product or technique?

Select one:

- ☐ a. Implementation
- ☒ b. Internal
- ☐ c. Conceptual
- ☐ d. External

Question 16

Answer saved

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2

Flag
question

If a schedule is equivalent to a serial schedule, it is called as a _____

Select one:

- ☒ a. Serializable schedule
- ☐ b. Equivalent schedule
- ☐ c. Committed schedule
- ☐ d. None of the mentioned

[Clear my choice](#)

Question 17

Answer saved

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2

Flag
question

Which of the following is a property of transactions?

Select one:

- ☒ a. All of the mentioned
- ☐ b. Durability
- ☐ c. Isolation
- ☐ d. Atomicity

[Clear my choice](#)

Question 18
Answer saved
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Flag question

Which of the following makes the transaction permanent in the database ?

- ☐ a. Rollback
- ☐ b. partially committed
- ☒ c. Commit
- ☐ d. View

[Clear my choice](#)

Question 19
Answer saved
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Flag question

Execution of transaction in isolation preserves the _____ of a database

Select one:

- ☒ a. Consistency
- ☐ b. Atomicity
- ☐ c. All of the mentioned
- ☐ d. Durability

[Clear my choice](#)

Question 20
Answer saved
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Flag question

_____ allows only committed data to be read and further requires that no other transaction is allowed to update it between two reads of a data item by a transaction.

Select one:

- ☐ a. Read uncommitted
- ☐ b. Serializable
- ☒ c. Read committed
- ☒ d. Repeatable read

Question 21

Answer saved

Marked out of 7

Remove flag

Consider schedule below first write conflict Paris then determine whether this schedule is recoverable, strict, and cascadeless? Show full answer

S : r₂(X); r₁(X); w₂(X); C₂; w₁(X); r₁(Y); w₁(Y); C₁

↓

A ▾

B

I

Conflict pairs:

w₂(x) | w₁(x)

r₂(x) | w₁(x)

Strict, because there were read or write operations after commit.

Not cascadeless, because there were no read only after commit.

Recoverable, because there were first written first commit.

Question 22

Answer saved

Marked out of 2

Flag question

The execution sequences in concurrency control are termed as _____

Select one:

- ☐ a. Serials
- ☐ b. Time tables
- ☐ c. Organizations
- ☒ d. Schedules

Question 23

Answer saved

Marked out of 7

Remove flag

What is the out put for this code

```
Set serveroutput on;

declare
    x number :=0;
    y number :=0;

Begin
for i in 1 ..7
loop
    if i mod 7 = 0 then
x:=x+i;
        --dbms_output.put_line('The number of = ' || x );
    else
        y:=y+i;
        -- dbms_output.put_line('The number of = ' || y);
    end if;
end loop;
-- dbms_output.put_line('The total number of x = ' || x);
dbms_output.put_line('The total number of y = ' || y);
end;
```

↓

A ▾

B

I

The number of =1
The number of =3
The number of =6
The number of =10
The number of =15
The number of =21
The number of =7
The total number of x=7
The total number of y=21

Question 24

Answer saved

Marked out of 2

Flag question

Consider the following action:

T1

Read(x);

X:=X*5;

Write (X);

Commit;

Rollback;

What does Rollback do?

- ☐ a. Clears all transactions
- ☒ b. Undoes the transactions before commit and back X to old value
- ☐ c. Redoes the transactions before commit
- ☒ d. No action

[Clear my choice](#)