

Quiz 9: Databases and REST API design

Due Nov 14 at 11:59pm

Points 10

Questions 10

Available Nov 8 at 5pm - Nov 14 at 11:59pm

Time Limit 15 Minutes

Instructions

This quiz covers both lectures 11 (databases) and 12 (REST). Please take the quiz only after watching both lectures - the total running time is about 1 hour 25 minutes for the videos.

This quiz was locked Nov 14 at 11:59pm.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	15 minutes	9 out of 10

Score for this quiz: **9** out of 10

Submitted Nov 13 at 11:19am

This attempt took 15 minutes.

Correct!

Question 1

1 / 1 pts

Which of the following is NOT a typical feature found in traditional (i.e., relational) databases ?

- ☒ Horizontal scaling
- ☐ Adherence to a schema
- ☐ Support for table joins
- ☐ ACID semantics

Question 2

1 / 1 pts

In a relational database, when it is desired to link one table with another, which of the following methods is used ?

- ☐ The common data is factored out into a separate table
- ☒ A foreign key is used to index into the second table
- ☐ The record is duplicated in both tables
- ☐ None of the others

Correct!

Question 3

0 / 1 pts

Which of the following is NOT a disadvantage of table joins offered by traditional databases ?

☒ All of the others

☐ Performance

☐ Failure Tolerance

☐ Programmability

Wrong Answer

Correct Answer

Question 4

1 / 1 pts

Which of the ACID properties involves at least 2 transactions ?

☐ Durability

☐ Atomicity

Correct!

- ☒ Isolation
- ☐ Consistency

Question 5

1 / 1 pts

In a database, consider a transaction that's aborted before it completes, but part of its state is written to the permanent record. Which of the following ACID properties is violated ?

Correct!

- ☒ Atomicity
- ☐ Durability
- ☐ Consistency
- ☐ Isolation

Question 6

1 / 1 pts

According to the CAP theorem, a **distributed** database that needs to provide partition tolerance cannot support which of the following ?

Correct!

- ☒ Both Consistency and Availability
- ☐ None
- ☐ Consistency
- ☐ Availability

Question 7

1 / 1 pts

A NoSQL database typically offers eventual consistency. So when you perform a write to one copy of the data, the other copy is updated

- ☐ Never
- ☐ Within a bounded time
- ☐ Right away
- ☒ None of the others

Correct!

Question 8

1 / 1 pts

Which of the following is NOT a required principle of REST architecture ?

- ☐ Cacheability
- ☒ Code on demand
- ☐ Statelessness
- ☐ Uniform interface

Correct!

Question 9

1 / 1 pts

Which of the following HTTP requests is neither safe nor idempotent ?

Correct!

- ☐ PUT
- ☐ DELETE
- ☐ GET
- ☒ POST

Question 10

1 / 1 pts

When you have a collection that you want to support using a REST API, which of the following operations are typically used to add elements to the collection ?

- ☐ GET
- ☐ DELETE
- ☐ PUT
- ☒ POST

Correct!

Quiz Score: **9** out of 10