

EE4221 Quiz 8

1. You are designing a web application that will scale to hundreds of thousands of concurrent users. Which database technology is best suited to hold the session state in this example?

Amazon S3
Amazon Relational Database Service (RDS)
Amazon DynamoDB
Amazon Aurora

2. You need to find an item in an Amazon DynamoDB table using an attribute other than the item's primary key. Which of the following operations should you use?

GetItem	Query	PutItem	Scan
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3. In Amazon DynamoDB, what does the query operation enable you to do?

Efficiently retrieve items from a table or secondary index
All of the above
Query any secondary index that exist for a table
Query a table using the partitionkey and an optional sort key filter

4. In Amazon DynamoDB, an attribute is ____.

a collection of items	a fundamental data element
a collection of attributes	an object

5. Which of the following use cases is appropriate for using Amazon Relational Database Service (Amazon RDS)?

Complex transactions	Simple GET or PUT requests
All of the above	Massive read/write rates

6. If you are developing an application that requires a database with extremely fast performance, fast scalability, and flexibility in the database schema, which service should you consider?

Amazon DynamoDB	Amazon Redshift
Amazon RDS	Amazon ElasticCache

7. A company has an application, which consists of a .NET layer that connects to a MySQL database. They want to move this application on to AWS and use AWS features such as high availability and automated backups. Which of the following would be an ideal database for this use case?

Amazon DynamoDB
Amazon Aurora
MySQL database backed by a cluster of EC2 instances
Amazon ECS

8. True or False? Amazon RDS automatically backs up your database, storing the backups for a user-defined retention period and enabling point-in-time recovery.
9. What should you consider when choosing a database type?

Query frequency	Highly available	Data size
All of the above	Data access period	

10. With Multi-AZ deployment, the primary DB instance can switch over automatically to the standby replica under which of the following conditions:

The DB instance's server type is changed
The operating system of the DB instance is undergoing software patching
An Availability Zone outage
The primary DB instance fails
A regional breakdown
No answer