

Quiz 4 - BDMS Quiz

1. The desired characteristics of a BDMS include (select all that apply):

- Narrow range of query sizes
- **Continuous data ingestion**
- **Support for common "Big Data" data types**
- Support for ACID
- **A full query language**
- **A flexible semi-structured data model**

2. Fill in the blank with the best answer: CAP theorem states that _____ all at once within a distributed computer system?

- it is impossible to have consistency, accuracy, and partial tolerance
- it is necessary to have consistency, accuracy, and partial tolerance
- it is necessary to have consistency, availability, and partition tolerance
- **it is impossible to have consistency, availability, and partition tolerance**

3. What is the purpose of the acronym BASE?

- The same as ACID.
- To overcome CAP theorem.
- **To impose properties on a BDMS in order to guarantee certain results.**
- Enables stricter enforcement of ACID type design.

4. What are ziplists in Redis?

- A special type of data type that can store up to 512 mb of image data.
- A look up table that is stored as a value in the database. Look up table points to actual values in memory.
- **A compressed list that is stored within the value of the database.**
- A special type of data type that can store hashes that point to multiple attributes.

5. What is one of the main features of Aerospike?

- Images as values within the database.
- Enables real time data streaming from external sources.
- **Support for geospatial data storage and geospatial queries.**
- Better equipped for string based search applications.

6. What database would be best suited for the following scenario: An app development company is trying to implement a cloud based storage system for their new map-based app. The cloud will manage the longitude and latitude of the data in order to track user location.

- Solr
- Vertica
- **Aerospike**
- Redis

7. What database would be best suited for the following scenario: A big wholesale company is trying to implement a search engine for their products.

- Redis
- Aerospike
- **Solr**
- Vertica

8. Which of the following data types are supported by Redis? (select all that apply)

- **Sorted Sets**
- Images
- **Hashes**
- **Lists**
- Streaming Video
- **Strings**