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OrientDB Interview Questions

Below are the list of OrientDB interview questions and their answers

Q1. Explain OrientDBand its uses?

OrientDB is an open-source NoSQL database management system that is written in Java. It supports a Multi-model database, supporting graph, document, key/value, and object models. It offers several indexing mechanisms based on B-tree and Extendible hashing, the last one is known as "hash index". It implements LSM-tree and Fractal tree index based indexes.

Some uses of OrientDB are as follows:
1. It is used to store data and provide facilities (tools) to search for specific records in a given set of data.
2. It is used to store special information used to manage the data. This information is called metadata and it is not shown to all the people looking at the data.
3. IT is used to solve cases where many users want to access (and possibly change) the same entries of data.
4. It is used to manage access rights (who is allowed to see the data, who can change it)
5. It is used to track information about users, their name, login information, various addresses, and phone numbers.

Q2. Enlist few advantages of OrientDB?

Few advantages of OrientDB are listed below:

1. It is integration of Many database modules into one db.
2. It provides good user profile based security system.
3. It has SQL engine developed from scratch to improve performance.
4. It supports Storage caching that is better for reducing latency.
5. It allows Remote connection with increased transaction isolation.

Q3. What is the difference between MongoDB and OrientDB?

The differences between MongoDB and OrientDB are as follows:

MongoDB	OrientDB
Doesn't require a unified data structure.	Multi-model database (document, object, graph).
Easy to scale	Open Source commercial friendly license (Apache 2).
Great speed	Free clustering support.

Perfect documentation and tutorials.	Performance is very fast.
It uses JSON.	Supports SQL as well as other query languages.

Q4. Is OrientDB supports transactions?

Yes, OrientDB supports transactions ACID properties.

Q5. List different types of data types available in OrientDB?

Different types of data types available in OrientDB are as follows:

1. Boolean
2. Integer
3. Short
4. Long
5. Float
6. Double
7. Date-time
8. String
9. Binary
10. Embedded
11. Embedded list
12. Embedded set
13. Embedded map
14. Link
15. Link list
16. Link set
17. Link map
18. Byte
19. Transient
20. Date
21. Custom
22. Decimal
23. LinkBag
24. Any

Q6. What is a cluster in OrientDB?

Clusters are used in OrientDB to store links to the data. It is a generic way to group records. Some examples of how clusters may be used are as follows: Example 1: Use the cluster "Person" to group all the records of type "Person". Example 2: Use the cluster "Cache" to group all the records most accessed. Example 3: Use the cluster "Today" to group all the records created today. Example 4: Use the cluster "CityCar" to group all the city cars.

Q7. Explain Graph Api in OrientDB?

OrientDB adheres to the TinkerPop Blueprints standard and uses it as the default **Graph API**. It is used to handle Graph Databases with the help of a complete stack such as Blueprints, Pipes, Gremlin, Rexster, and sail Ouplementation.

Q8. Write command to list all Databases in OrientDB?

Connect to the server and the **LIST DATABASES** command is used to list all Databases in OrientDB.

Q9. What is a Graph Database?

What is a Graph Database?A database that is based on graph theory is known as a graph database that consists of a set of objects such as a node or an edge. It can be used to store complex data structures that would be infeasible in a traditional relational database.

Q10. What is multi model database?

A Multi-model database is a database. It can store, index, and query data in more than one model. A database that supported a relational database, document-oriented database, graph database, or triplestore is multi-model.

Q11. What are RecordBytes in OrientDB?

OrientDB provides a **RecordBytes record** generally known as BLOB(after OrientDB v2.2) that can also load and store binary data. It is a little similar to a Document, a Vertex, or even an Edge. It can be used on record in OrientDB.

Q12. Explain Vertex in OrientDB?

Vertex in OrientDB is the most basic unit of data. It is also known as a Node in Graph Databases. Vertex is responsible for storing information for the database. In OrientDB two vertexes are connected with an **Edge**.

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