Session: MongoDB

Assignment





**ACADGILD**



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*SESSION 8*

**What will happen if an index is created on a field that does not exist in any of the documents in the collection?**

1. Will throw an error and not create the index
2. MongoDB will not create the index and not throw an error
3. MongoDB will create the index but give a warning
4. MongoDB will create the index but give no feedback
5. MongoDB will ask if you're sure first

**Ans.** d) MongoDB will create the index but give no feedback

**How do a B-tree and a binary tree differ?**

1. A binary tree is a special case of a B-tree with n=2.
2. A binary tree is a graph with binary paths downward, while the B-trees sang "Stayin' Alive" in 1977.

**Ans.** a) A binary tree is a special case of a B-tree with n=2.

**Which index would you create to optimize your reads if you used only these queries in your application, plus queries that differed from these only in the value?**

find( { a : 5 , b : 10 } ) find( { a: { $gt : 5 } } ) find( { a : { $lt : 100 } } )

1. createIndex( { a : 1 } )
2. createIndex( { b : 1 } )
3. createIndex( { a : 1, b : 1 } )
4. createIndex( { b : 1, a : 1 } )

**Ans.** c)createIndex( { a : 1, b : 1 } )

**A MongoDB index can have keys of different types (i.e., ints, dates, string)**

a) True

b) False

**Ans.** a) True

**If an index is created with the options document,**

**{ unique : true }**

**can 2 documents which do not include the field that is indexed exist in the same collection?**

1. Yes
2. No

**Ans.** b) No

**Hint always works.**

1. True
2. False

**Ans.** b) False

**What are some disadvantages to having indexes that are not needed or not used? Check all that apply.**

1. There are no disadvantages
2. Unused indexes need to be updated, slowing down updates, inserts and deletes
3. Unused indexes could use memory potentially causing unnecessary page faults
4. Unused indexes will make find() queries slower
5. MongoDB doesn't allow indexes on fields that are not used in queries

**Ans.** b)Unused indexes need to be updated, slowing down updates, inserts and deletes

1. Unused indexes could use memory potentially causing unnecessary page faults

**Which ops are safe to kill (without any special effort or clean-up or implications later beyond the obvious):**

1. A query
2. A findAndModify on a primary
3. A foreground creates index building on a primary
4. A foreground creates index building on a secondary
5. A compact command job

**Ans.** a) A query

b)A findAndModify on a primary

1. A foreground creates index building on a primary

**The system profiler is on by default.**

1. True
2. False

**Ans.** b) False