

FINAL: QUESTION 10

Understanding the output of explain We perform the following query on the enron dataset:

```
db.messages.find({'headers.Date':{'$gt': new Date(2001,3,1)}},{'headers.From':1, _id:0}).sort({'headers.From':1}).explain()
```

and get the following explain output.

```
{
  "cursor" : "BtreeCursor headers.From_1",
  "isMultiKey" : false,
  "n" : 83057,
  "nscannedObjects" : 120477,
  "nscanned" : 120477,
  "nscannedObjectsAllPlans" : 120581,
  "nscannedAllPlans" : 120581,
  "scanAndOrder" : false,
  "indexOnly" : false,
  "nYields" : 0,
  "nChunkSkips" : 0,
  "millis" : 250,
  "indexBounds" : {
    "headers.From" : [
      [
        {
          "$minElement" : 1
        },
        {
          "$maxElement" : 1
        }
      ]
    ]
  },
  "server" : "Andrews-iMac.local:27017"
}
```

Check below all the statements that are true about the way MongoDB handled this query.

- ☐ The query did not utilize an index to figure out which documents match the find criteria.
- ☐ The query used an index for the sorting phase.
- ☐ The query returned 120,477 documents

☐ The query performed a full collection scan

SUBMIT

