



Course Overview



View Discussion

Chapter 3: Index Operations

Lab 3.1: Explain Output

Problem:

In this lab you're going to determine which index was used to satisfy a query given its explain output.

The following query was ran:

```
> var exp = db.restaurants.explain("executionStats")
> exp.find({ "address.state": "NY", stars: { $gt: 3, $lt: 4 }
}).sort({ name: 1 }).hint(REDACTED)
```

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Which resulted in the following output:

```
{
  "queryPlanner": {
    "plannerVersion": 1,
    "namespace": "m201.restaurants",
    "indexFilterSet": false,
    "parsedQuery": "REDACTED",
    "winningPlan": {
      "stage": "SORT",
      "sortPattern": {
        "name": 1
      },
    },
    "inputStage": {
      "stage": "SORT_KEY_GENERATOR",
      "inputStage": {
        "stage": "FETCH",
        "inputStage": {
          "stage": "IXSCAN",
          "keyPattern": "REDACTED",
          "indexName": "REDACTED",
          "isMultiKey": false,
```

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```

        "isUnique": false,
        "isSparse": false,
        "isPartial": false,
        "indexVersion": 1,
        "direction": "forward",
        "indexBounds": "REDACTED"
      }
    }
  },
  "rejectedPlans": [ ]
},
"executionState": 5

```

Correct! [SEE DETAILED ANSWER](#)



```

    "nReturned": 3335,
    "executionTimeMillis": 20,
    "totalKeysExamined": 3335,
    "totalDocsExamined": 3335,
    "executionStages": "REDACTED"
  },
  "serverInfo": "REDACTED",
  "ok": 1
}

```

Given the redacted explain output above, select the index that was passed to hint.

Note: The `hint()` method is used to force the query planner to select a particular index for a given query. You can learn more about hint by visiting [its documentation](#).

Attempts Remaining: **Correct Answer**

Choose the best answer:

☐ { "address.state": 1, "name": 1 }

☐ { "address.state": 1 }

☒ { "address.state": 1, "stars": 1, "name": 1 }

☐ { "address.state": 1, "name": 1, "stars": 1 }

Correct!

[See detailed answer](#)