

Final Exam


Final: Question 6

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The correct answers are:

- `db.customers.find({"country": "Norway", "_id": 54})`
-  COPY

This specifies both indexes used in the shard key.

- `db.customers.find({"country": { $gte: "Portugal", $lte: "Spain" }})`
-  COPY

This specifies a prefix of the indexes used in the shard key, **"country"**, and will be routed to shards containing the necessary information.

- `db.customers.find({"_id": 914, "country": "Sweden"})`
-  COPY

Although the indexes are specified in reverse order, this is a routed query. Any document matching `{"_id": 914, "country": "Sweden"}` **must** be identical to `{"country": "Sweden", "_id": 914}`. The query planner will take advantage of this and reorder the fields.

The incorrect answer is:

- `db.customers.find({"_id": 455})`
-  COPY

Because the neither a prefix nor the full shard key is provided, **mongos** has no way to determine how to appropriately route this query. Instead, it will send this query to all shards in the cluster in a *scatter-gather* operation.