Final Exam

Question 7

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Let's examine each of these choices:

- **Index #1 would provide a sort to query #3.**

  Yes, that is correct.

- **Index #2 properly uses the equality, sort, range rule for query #1.**

  No, if we were to build an index for query #1 using the equality, sort, range rule, then the index would be: `{ in_stock: 1, name: 1, price: 1 }`.

- **There would be a total of 4 index keys created across all of these documents and indexes.**

  No, there would be 5 total index keys:

    - `{ categories: 'Beauty', price: 2.99 }`
    - `{ categories: 'Personal Care', price: 2.99 }`
    - `{ categories: 'Outdoors', price: 7.99 }`
    - `{ in_stock: true, price: 2.99, name: 'Soap' }`
    - `{ in_stock: false, price: 7.99, name: 'Knife'}`

  The additional index keys are due to the multikey index on categories.

- **Index #2 can be used by both query #1 and #2.**

  Yes, that is correct.