

Chapter 3: Patterns (Part 1)

Lab: Apply the Attribute Pattern

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To solve this problem, you had to use the *Attribute Pattern*

Start by replacing the fields under the *event* field with *k* and *v*, where *k* will contain the name of an event as *string* and *v* will contain the *date* for such event.


Also, you needed to remove *acquisition_date* from the root of the document and use *k/v* to represent it.

The document listed in the question would look like the following once transformed:

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```
{
  "_id": ObjectId("5c5348f5be09bedd4f196f18"),
  "title": "Cookies in the sky",
  "artist": "Michelle Vinci",
  "location": "Blue Room, 20A",
  "on_display": false,
  "in_house": false,
  "events": [{
    "k": "date_acquisition",
    "v": ISODate("2017-12-25T00:00:00.000Z")
  }, {
    "k": "moma",
    "v": ISODate("2019-01-31T00:00:00.000Z")
  }, {
    "k": "louvres",
    "v": ISODate("2020-01-01T00:00:00.000Z")
  }]
}
```

And the corresponding schema that you verified with the validator would look like this:

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```
{
  "_id": "<objectId>",
  "title": "<string>",
  "artist": "<string>",
  "location": "<string>",
  "on_display": "<bool>",
  "in_house": "<bool>",
  "events": [{
    "k": "<string>",
    "v": "<date>"
  }]
}
```

Proceed to next section