

Chapter 4: Patterns (Part 2)

Lab: Apply the Computed Pattern


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

Start by removing the unnecessary fields: *city*, *owner*, and *address*. These fields are irrelevant for our computations and useless for our AI.


We want to keep the rest of the fields, since they give us important information about energy consumption by zone, throughout time, which will help evaluate any fluctuations based on day of week, zone, weather, season, etc.

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

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```
{
  "_id": ObjectId("5c9414f25e6aff2b8870a2d0"),
  "zone": 13,
  "date": ISODate("2019-03-21T00:00:00.000Z"),
  "kW per day": {
    "consumption": 9756,
    "self-produced": 2059,
    "city-supplemented": 7700
  }
}
```

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

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```
{
  "_id": "<objectId>",
  "zone": "<int>",
  "date": "<date>",
  "kW per day": {
    "consumption": "<int>",
    "self-produced": "<int>",
    "city-supplemented": "<int>"
  }
}
```