**Chapter 3: Patterns (Part 1)**

# Lab: Apply the Subset Pattern

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

Start by removing the unnecessary fields, such as *makers* and *maker address*. These fields are irrelevant for our users and the app.

We want to keep the rest of the fields renaming *reviews* to *top 5 reviews* and *questions* to *top 5 questions* to minimize the amount of data stored in a single document.

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

```
                                                    COPY

{
  "_id": ObjectId("5c9be463f752ec6b191c3c7e"),
  "item_code": "AS450PD",
  "name": "Recycled Kicks",
  "maker_brand": "Shoes From The Gutter",
  "price": 100.00,
  "description": "These amazing Kicks are made from recycled
plastics and
  fabrics.They come in a variety of sizes and are completely
unisex in design.
  If your feet don't like them within the first 30 days, we'll
return your
  money no questions asked.
  ",
  "materials": [
    "recycled cotton",
```

```
        "recycled plastic",
        "recycled food waste",
    ],
    "country": "Russia",
    "image":
"https:///www.shoesfromthegutter.com/kicks/AS45OPD.img",
    "available_sizes": {
        "mens": ["5", "6", "8", "8W", "10", "10W", "11", "11W",
"12", "12W"],
        "womens": ["5", "6", "7", "8", "9", "10", "11", "12"]
    },
    "package_weight_kg": 2.00,
    "average_rating": 4.8,
    "top_five_reviews": [{
        "author": "i_love_kicks",
        "text": "best shoes ever! comfortable, awesome colors and
design!",
        "rating": 5
    },
    {
        "author": "i_know_everything",
        "text": "These shoes are no good because I ordered the
wrong size.",
        "rating": 1
    },
    "..."
    ],
    "top_five_questions": [{
        "author": "i_love_kicks",
        "text": "Do you guys make baby shoes?",
        "likes": 1223
    },
    {
        "author": "i_want_to_know_everything",
        "text": "How are these shoes made?",
        "likes": 1120
    },
    "..."
    ],
    "stock_amount": 10000,
}
```

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

```
{
  "_id": "<objectId>",
  "item_code": "<string>",
  "name": "<string>",
  "maker_brand": "<string>",
  "price": "<decimal>",
  "description": "<string>",
  "materials": ["<string>"],
  "country": "<string>",
  "image": "<string>",
  "available_sizes": {
    "mens": ["<string>"],
    "womens": ["<string>"]
  },
  "package_weight_kg": "<decimal>",
  "average_rating": "<decimal>",
  "top_five_reviews": [{
    "author": "<string>",
    "text": "<string>",
    "rating": "<int>"
  }],
  "top_five_questions": [{
    "author": "<string>",
    "text": "<string>",
    "likes":"<int>"
  }],
  "stock_amount": "<int>"
}
```