

**This document includes a sample document and queries using json script in CouchDB. It creates views for a fictional company that is interested in transaction information.**

Each document represents a product transaction.

Some records include customer feedback and RFM (Recency, Frequency, Monetary) values for customer analysis.

HAND WARMER and CLOCK products are among the sample items.

### **SAMPLE DOCUMENT**

```
{
  "Stockcode": 22752,
  "Description": "SET 7 BABUSHKA NESTING BOXES",
  "Quantity": 2,
  "Price": 7.65,
  "CustomerID": 17858,
  "Country": "United Kingdom",
  "RecommendationText": "I bought this set of 7 nesting boxes...",
  "RecommendationSentiment": "Positive",
  "RFM": {
    "Recency": "2020/11/15",
    "MonthlyFrequency": 2,
    "Monetary": 170
  }
}
```

## **Records with a Recommendation**

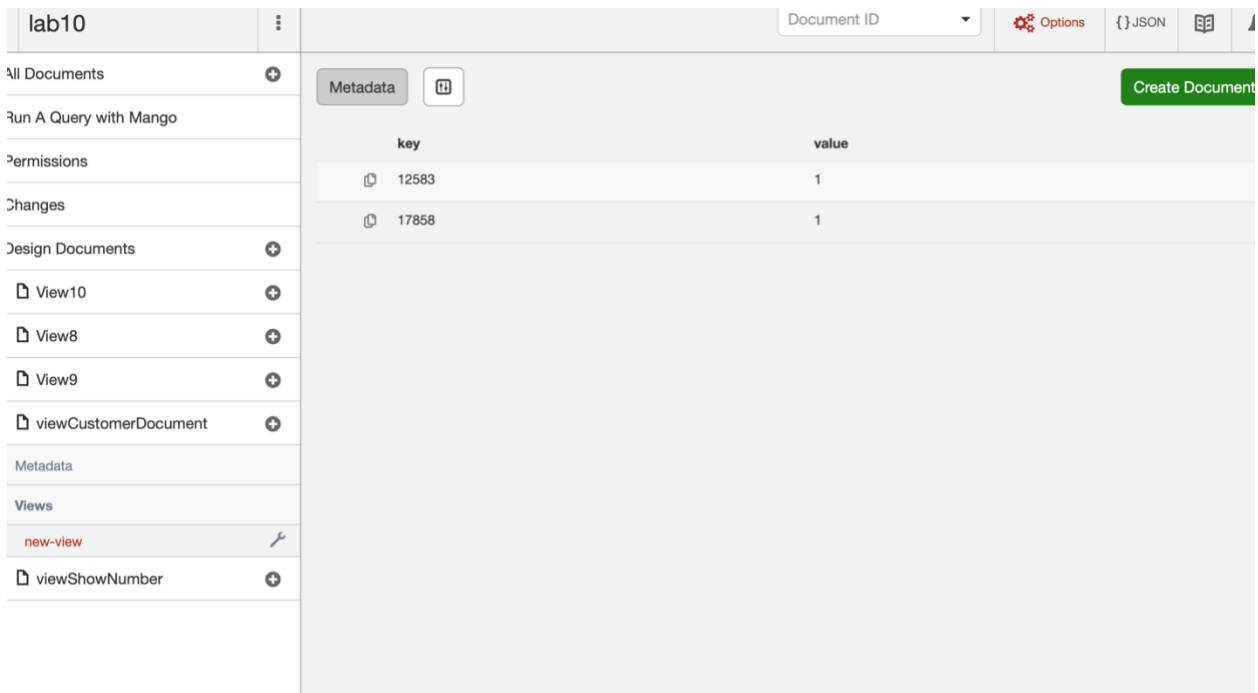
```
function(doc) {  
  if (doc.RecommendationText.includes(" ")) {  
    emit("SUM", doc.Quantity);  
  }  
}
```

Emits the quantity of all records that include a recommendation message.

## Price Filter

```
function(doc) {  
  if(doc.Price > 3.50) {  
    emit(doc.CustomerID, doc);  
  }  
}
```

Filters and emits documents where the product price is greater than \$3.50.



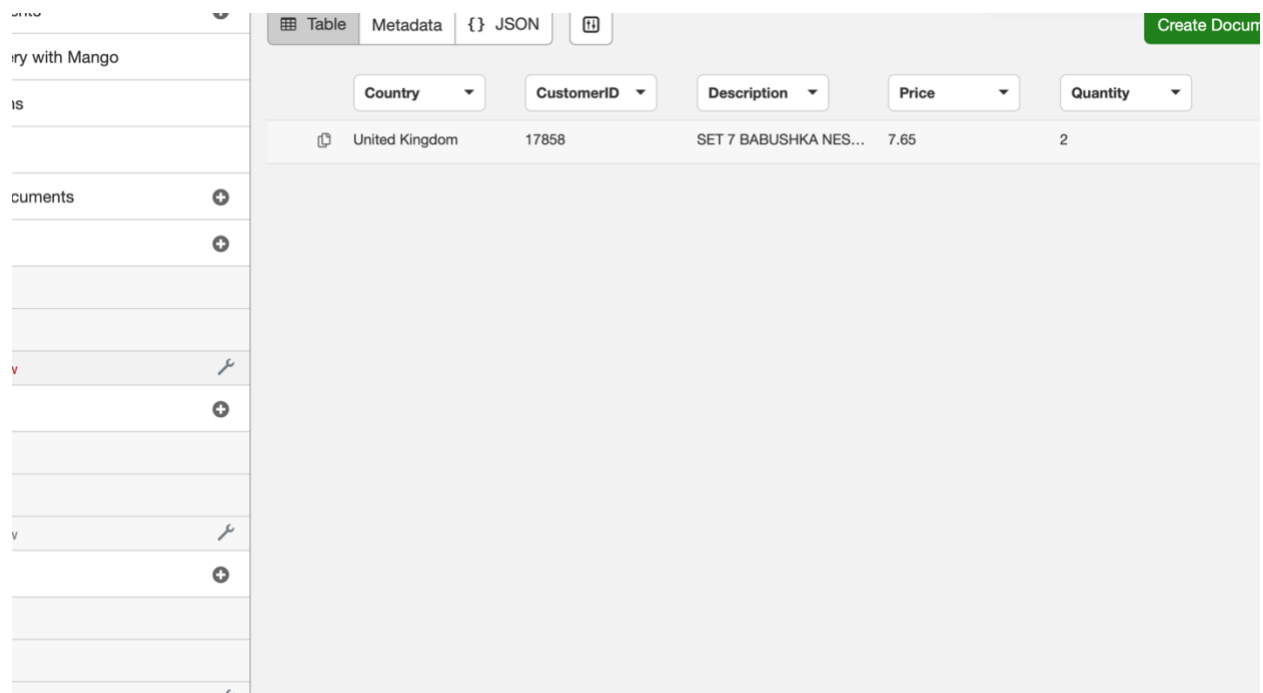
The screenshot shows the CouchDB lab10 interface. On the left is a sidebar with navigation links: All Documents, Run A Query with Mango, Permissions, Changes, Design Documents, View10, View8, View9, viewCustomerDocument, Metadata, Views, new-view, and viewShowNumber. The main area displays a table with two columns: key and value. The table contains two rows of data: a document with ID 12583 and a document with ID 17858, both with a value of 1. The interface also includes a 'Create Document' button and a 'Metadata' tab.

key	value
12583	1
17858	1

## UK-Based Transactions

```
function(doc) {  
  if(doc.Country == "United Kingdom") {  
    emit(doc.CustomerID, doc);  
  }  
}
```

Filters for customers located in the United Kingdom.



The screenshot shows a web application interface with a table of transactions. The table has five columns: Country, CustomerID, Description, Price, and Quantity. The first row of data shows a transaction from the United Kingdom with CustomerID 17858, Description SET 7 BABUSHKA NES..., Price 7.65, and Quantity 2. The interface includes a sidebar on the left with a search bar and a list of documents. The top of the table has tabs for Table, Metadata, and JSON, and a green button labeled 'Create Document'.

Country	CustomerID	Description	Price	Quantity
United Kingdom	17858	SET 7 BABUSHKA NES...	7.65	2

## Purchase by Price

```
function(doc) {  
  if (doc.CustomerID == 17858)  
    emit(doc.StockCode, doc.Price);  
}
```

lab10

All Documents

Run A Query with Mango

Permissions

Changes

Design Documents

15b

Metadata

Views

new-view

View10

Metadata

Views

View8

Metadata

Views

new-view

View9

viewCustomerDocument

Document ID

Options

JSON

Table

Metadata

JSON

Create Document

Country

CustomerID

Description

Price

Quantity

France

12583

ALARM CLOCK BAKELI...

3.75

12

United Kingdom

17858

SET 7 BABUSHKA NES...

7.65

2

United Kingdom

17858

GLASS STAR FROSTED...

4.25

6

Showing 5 of 11 columns

Show all columns

Showing document 1 - 3

Documents per page: 20

## Count Clock Sales

```
function(doc) {  
  if (doc.Description.includes("CLOCK")) {  
    emit("Sum", doc.Quantity);  
  }  
}
```

Counts total quantity of products that include “CLOCK” in the description.

Country	CustomerID	Description	Price	Quantity
France	12583	ALARM CLOCK BAKEL...	3.75	12