Exercise 11 - Working with Query Values

Exercise 11.a - Create a Aggregate Reviews View in Couchbase

We need to be able to display the total number of reviews for a given rating of 1 - 5 on the product detail page.

- 1. Open up the Couchbase Admin Console by going to http://127.0.0.1:8091/ in a web browser
- 2. Choose Data Buckets
- 3. Click the "Views" button next to the default bucket
- **4.** Click the "Development Views" tab, since we already have a Design Document, click the "Add View" button next to design/dev_products
- **5.** For the **View Name** use review_aggregates
- 6. Click "Save"
- **7.** Use the following JavaScript as the **Map** function for the view. This will create a view whose value is a compound key / array of date parts. The value in the index is *null*. This will only emit documents to the index that match the following.
- Has a doc_type property with a value of "review"
- 2. Has a product_id property
- 3. Has a review_date property
- 4. Has a rating property

```
function (doc, meta) {
  if(
    doc.doc_type &&
    doc.doc_type === "review" &&
    doc.product_id &&
    doc.review_date &&
    doc.rating
){
    emit([doc.product_id, doc.rating], null);
}
```

Notice that we are outputting the review rating as the value to the view

- 8. For the **Reduce** function enter the value of _count and click the "Save" button
- **9.** We now need to publish our Development View to Production. To do this scroll up to the top of the page, and click on Views.

10. Make sure you are on the **Development Views** tab and next to __design/dev__products click on the "Publish" button. You will get a notification that the Design Document already exists and it will ask you to confirm that you want to overwrite it, click "Confirm". This will move your __product_ Design Document to production and create the index against all of the documents in the entire bucket for all of the views in the view.On Sale

Exercise 11.b - Querying Aggregate Reviews View

- 1. Open exercise10/com/example/documents/Product.cfc in your IDE
- **2.** Modify the <code>getReviewAggregates</code> method to query Couchbase View. This will call the CFCouchbase <code>query()</code> method with the following arguments:

```
query = cb.query(
  designDocumentName = "products",
  viewName = "review_aggregates",
  options = {
     sortOrder = "DESC",
     reduce = true,
     group = true,
     startKey = [getProduct_ID(), 5],
     endKey = [getProduct_ID(), 1]
  }
);
```

For your reference the data from the <code>getReviewAggregates</code> method is used in the following views:

• exercise9/view/includes/product.tabs.reviews.cfm