

```
51
          var storeFuncs = [
              function (async_cb) {
                  client.storeValue({ bucket: customersBucket, key: customer.id, value: customer }, async_cb);
              },
              function (async_cb) {
57
                 client.storeValue({
                      bucket: orderSummariesBucket,
                      key: orderSummary.customerId,
                      value: orderSummary
61
                  }, async_cb);
62
              }
63
         ];
64
65
         orders.forEach(function (order) {
66
              storeFuncs.push(
67
                  function (async_cb) {
                      client.storeValue({ bucket: ordersBucket, key: order.id, value: order }, async_cb);
                  });
         });
          async.parallel(storeFuncs, function (err, rslts) {
              checkErr(err);
 74
              fetch_objects();
         });
      }
78
      function fetch_objects() {
79
         logger.info("Fetching related data by shared key");
80
81
         var key = '1';
82
         client.fetchValue({ bucket: customersBucket, key: key }, function (err, rslt) {
83
              checkErr(err):
              var fetchedCustomerObj = rslt.values.shift();
85
              var fetchedCustomer = fetchedCustomerObj.value.toString("utf8");
86
              client.fetchValue({ bucket: orderSummariesBucket, key: key}, function (err, rslt) {
                  checkErr(err);
87
                  var fetchedOrderSummaryObj = rslt.values.shift();
89
                  var fetchedOrderSummary = fetchedOrderSummaryObj.value.toString("utf8");
90
                  logger.info("Customer
                                           1: %s", fetchedCustomer);
                  logger.info("OrderSummary 1: %s", fetchedOrderSummary);
91
92
93
                  add_index_data();
94
             });
95
         });
96
      }
97
98
      function add_index_data() {
         logger.info("Adding Index Data");
99
         var funcs = [
              function (async_cb) {
                  client.fetchValue({ bucket: ordersBucket, key : '1' }, function (err, rslt) {
104
                      var fetchedOrderObj = rslt.values.shift();
106
                      fetchedOrderObj.addToIndex('SalespersonId_int', 9000);
                      fetchedOrderObj.addToIndex('OrderDate_bin', '2013-10-01');
                      client.storeValue({ value: fetchedOrderObj }, function (err, rslt) {
                          async_cb(err, rslt);
                      });
                 });
              },
              function (async_cb) {
114
                  client.fetchValue({ bucket: ordersBucket, key : '2' }, function (err, rslt) {
                      checkErr(err);
                      var fetchedOrderObj = rslt.values.shift();
                      fetchedOrderObj.addToIndex('SalespersonId_int', 9001);
```

```
118
                      fetchedOrderObj.addToIndex('OrderDate_bin', '2013-10-15');
119
                      client.storeValue({ value: fetchedOrderObj }, function (err, rslt) {
                          async_cb(err, rslt);
                      });
                 });
              },
              function (async_cb) {
                  client.fetchValue({ bucket: ordersBucket, key : '3' }, function (err, rslt) {
126
                      checkErr(err);
                      var fetchedOrderObj = rslt.values.shift();
                      fetchedOrderObj.addToIndex('SalespersonId_int', 9000);
128
                      fetchedOrderObj.addToIndex('OrderDate_bin', '2013-11-03');
                      client.storeValue({ value: fetchedOrderObj }, function (err, rslt) {
                          async_cb(err, rslt);
                      });
                 });
134
              }
         ];
136
         async.parallel(funcs, function (err, rslts) {
              checkErr(err);
              index_queries();
         });
141
142
      function index_queries() {
144
         logger.info("Index Queries");
         var janesOrders = [];
         client.secondaryIndexQuery({ bucket: ordersBucket, indexName: 'SalespersonId_int', indexKey: 9000 }, function (err, rslt) {
              checkErr(err);
              if (rslt.values.length > 0) {
                  Array.prototype.push.apply(janesOrders,
                          rslt.values.map(function (value) {
                              return value.objectKey;
                          })
                  );
              }
              if (rslt.done) {
159
                  logger.info("Jane's Orders: %s", janesOrders.join(', '));
160
161
                  var octoberOrders = [];
                  client.secondaryIndexQuery({ bucket: ordersBucket, indexName: 'OrderDate_bin',
                      rangeStart: '2013-10-01', rangeEnd: '2013-10-31' }, function (err, rslt) {
                      checkErr(err);
166
                      if (rslt.values.length > 0) {
167
                          Array.prototype.push.apply(octoberOrders,
168
                                  rslt.values.map(function (value) {
169
                                      return value.objectKey;
170
                                  })
171
                          );
                      }
                      if (rslt.done) {
                          logger.info("October's Orders: %s", octoberOrders.join(', '));
                          client_shutdown();
177
178
                      }
179
                 });
              }
         });
      }
183
184
      function client_shutdown() {
```

```
client.shutdown(function (state) {
   if (state === Riak.Cluster.State.SHUTDOWN) {
187
                   logger.info("cluster stopped");
188
                   process.exit();
189
              }
190
          });
191
192
193
      function createOrders() {
194
          var orders = [];
195
196
          var order1 = {
              id : '1',
              customerId : '1',
198
              salespersonId : 9000,
200
              items : [
201
                   {
202
                       id: "TCV37GIT4NJ",
203
                       title: "USB 3.0 Coffee Warmer",
204
                       price: 15.99
                  },
                   {
                       id: "PEG10BBF2PP",
208
                       title: "eTablet Pro, 24GB; Grey",
209
                       price: 399.99
210
                   },
              ],
              total: 415.98,
              orderDate : "2013-10-01 14:42:26"
          };
          orders.push(order1);
216
          var order2 = {
218
              id : '2',
219
              customerId : '1',
              salespersonId : 9001,
              items : [
                   {
                       id : "OAX19XWN0QP",
                       title : "GoSlo Digital Camera",
                       price : 359.99
226
              ],
228
              total : 359.99,
              orderDate : "2013-10-15 16:43:16"
229
          };
          orders.push(order2);
          var order3 = {
234
              id : '3',
              customerId : '1',
236
              salespersonId : 9000,
              items : [
                   {
                       id : "WYK12EPU5EZ",
239
                       title : "Call of Battle : Goats - Gamesphere 4",
241
                       price : 69.99
242
                  },
243
244
                       id : "TJB84HAA80A",
245
                       title : "Bricko Building Blocks",
246
                       price : 4.99
247
                   }
              ],
249
              total: 74.98,
              orderDate : "2013-11-03 17:45:28"
250
251
          };
          orders.push(order3);
```

```
253
254
          return orders;
255
      }
256
      function createOrderSummary(orders) {
258
259
          var orderSummary = {
              customerId : '1',
260
261
              summaries : []
262
          };
263
264
          orders.forEach(function (order) {
              orderSummary.summaries.push({
266
                  orderId : order.id,
267
                  total : order.total,
                  orderDate : order.orderDate
268
269
              });
270
          });
          return orderSummary;
273 }
274
4
```

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