**Insert some data:**

POST /listings/\_doc/1

{

"address": "1 Smith St Melbourne Vic 3000",

"upgrade": [

{

"product": "premier",

"start": "2015-03-07",

"end": "2015-03-21"

},

{

"product": "highlight",

"start": "2015-03-22",

"end": "2015-04-13"

}

]

}

POST /listings/\_doc/2

{

"address": "2 Jones St Sydney NSW 2000",

"upgrade": [

{

"product": "premier",

"start": "2015-03-28",

"end": "2015-04-10"

},

{

"product": "highlight",

"start": "2015-04-11",

"end": "2015-05-19"

}

]

}

**#Find listings that were premier on April 1.**

# NOTE HOW THIS DOESN'T WORK!!!

# It includes "1 Smith St" even though it's premier status ended before April 1.

GET listings/\_search

{

"query": {

"bool": {

"filter": [

{

"match":{

"upgrade.product":"premier"

}

},

{

"range": {

"upgrade.start": {

"lte": "2015-04-01"

}

}

},

{

"range": {

"upgrade.end": {

"gte": "2015-04-01" }

}

}

]

}

}

}

**Response:**

{

"took": 1,

"timed\_out": false,

"\_shards": {

"total": 1,

"successful": 1,

"skipped": 0,

"failed": 0

},

"hits": {

"total": {

"value": 2,

"relation": "eq"

},

"max\_score": 0,

"hits": [

{

"\_index": "listings",

"\_id": "1",

"\_score": 0,

"\_source": {

"address": "1 Smith St Melbourne Vic 3000",

"upgrade": [

{

"product": "premier",

"start": "2015-03-07",

"end": "2015-03-21"

},

{

"product": "highlight",

"start": "2015-03-22",

"end": "2015-04-13"

}

]

}

},

{

"\_index": "listings",

"\_id": "2",

"\_score": 0,

"\_source": {

"address": "2 Jones St Sydney NSW 2000",

"upgrade": [

{

"product": "premier",

"start": "2015-03-28",

"end": "2015-04-10"

},

{

"product": "highlight",

"start": "2015-04-11",

"end": "2015-05-19"

}

]

}

}

]

}

}

**#Find listings that were premier on April 1.**

# NOTE HOW THIS DOESN'T WORK!!!

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GET listings/\_search

{

"query": {

"bool": {

"filter": [

{

"match":{

"upgrade.product":"premier"

}

},

{

"range": {

"upgrade.start": {

"lte": "2015-04-01"

}

}

},

{

"range": {

"upgrade.end": {

"gte": "2015-04-01" }

}

}

]

}

}

}

**Add data again.**

# Index example docs again.

POST /listings/\_doc/1

{

"address": "1 Smith St Melbourne Vic 3000",

"upgrade": [

{

"product": "premier",

"start": "2015-03-07",

"end": "2015-03-21"

},

{

"product": "highlight",

"start": "2015-03-22",

"end": "2015-04-13"

}

]

}

POST /listings/\_doc/2

{

"address": "2 Jones St Sydney NSW 2000",

"upgrade": [

{

"product": "premier",

"start": "2015-03-28",

"end": "2015-04-10"

},

{

"product": "highlight",

"start": "2015-04-11",

"end": "2015-05-19"

}

]

}

**Use a nested query.**

GET /listings/\_search

{

"query": {

"nested": {

"path": "upgrade",

"query": {

"bool": {

"filter": [

{

"match": {

"upgrade.product": "premier"

}

},

{

"range": {

"upgrade.start": {

"lte": "2015-04-01"

}

}

},

{

"range": {

"upgrade.end": {

"gte": "2015-04-01"

}

}

}

]

}

}

}

}

}

**Use inner\_hits to see which products actually matched**

GET /listings/\_search

{

"query": {

"nested": {

"inner\_hits" : {},

"path": "upgrade",

"query": {

"bool": {

"filter": [

{

"match": {

"upgrade.product": "premier"

}

},

{

"range": {

"upgrade.start": {

"lte": "2015-04-01"

}

}

},

{

"range": {

"upgrade.end": {

"gte": "2015-04-01"

}

}

}

]

}

}

}

}

}