**Query 1**

Code:

function () {

var ret= new Array();

var cur = db.cancellation.find({},{Code : 1, Description : 1, \_id : 1});

while(cur.hasNext())

{

ret.push(cur.next());

}

return ret;

}

Selection:

Response from server:

{

"retval": [

{

"\_id": ObjectId("534de3b87b7ccaa39cacc78c"),

"Code": "A",

"Description": "Carrier"

},

{

"\_id": ObjectId("534de3b87b7ccaa39cacc78d"),

"Code": "B",

"Description": "Weather"

},

{

"\_id": ObjectId("534de3b87b7ccaa39cacc78e"),

"Code": "C",

"Description": "National Air System"

},

{

"\_id": ObjectId("534de3b87b7ccaa39cacc78f"),

"Code": "D",

"Description": "Security"

}

],

"ok": 1

}

**Query 2:**

Told to include flights in count that were not cancelled

Code:

function () {

var agg = db.flight\_info.aggregate(

{$match: {}},

{$group: {\_id: "$CANCELLATION\_CODE", total: {$sum: 1}}}

);

return agg;

}

Selection:

Response from server:

{

"retval": {

"result": [

{

"\_id": "B",

"total": 19108

},

{

"\_id": "C",

"total": 4598

},

{

"\_id": "A",

"total": 7146

},

{

"\_id": "",

"total": 441097

}

],

"ok": 1

},

"ok": 1

}

**Query 3:**

Code:

function () {

var ret= new Array();

var cur = db.flight\_info.find({FL\_NUM: 1778, CANCELLATION\_CODE: "B"},{});

while(cur.hasNext())

{

ret.push(cur.next());

}

return ret;

}

Selection:

Response from server:

{

"retval": [

{

"\_id": ObjectId("534de3ea7b7ccaa39cb3ef41"),

"MONTH": NumberInt(1),

"UNIQUE\_CARRIER": "US",

"AIRLINE\_ID": NumberInt(20355),

"FL\_NUM": NumberInt(1778),

"ORIGIN\_AIRPORT\_ID": NumberInt(14100),

"ORIGIN\_AIRPORT\_SEQ\_ID": NumberInt(1410002),

"ORIGIN\_CITY\_MARKET\_ID": NumberInt(34100),

"ORIGIN": "PHL",

"ORIGIN\_CITY\_NAME": "Philadelphia, PA",

"ORIGIN\_STATE\_ABR": "PA",

"ORIGIN\_STATE\_NM": "Pennsylvania",

"ORIGIN\_WAC": NumberInt(23),

"DEST\_AIRPORT\_ID": NumberInt(14771),

"DEST\_AIRPORT\_SEQ\_ID": NumberInt(1477101),

"DEST\_CITY\_MARKET\_ID": NumberInt(32457),

"DEST": "SFO",

"DEST\_CITY\_NAME": "San Francisco, CA",

"DEST\_STATE\_ABR": "CA",

"DEST\_STATE\_NM": "California",

"DEST\_WAC": NumberInt(91),

"CRS\_DEP\_TIME": NumberInt(2035),

"DEP\_TIME": NumberInt(2141),

"DEP\_DELAY": 66,

"DEP\_DELAY\_NEW": 66,

"WHEELS\_OFF": "",

"WHEELS\_ON": "",

"CRS\_ARR\_TIME": NumberInt(2350),

"ARR\_TIME": "",

"ARR\_DELAY": "",

"ARR\_DELAY\_NEW": "",

"CANCELLED": 1,

"CANCELLATION\_CODE": "B",

"DIVERTED": 0,

"CRS\_ELAPSED\_TIME": 375,

"ACTUAL\_ELAPSED\_TIME": "",

"AIR\_TIME": "",

"FLIGHTS": 1,

"CARRIER\_DELAY": "",

"WEATHER\_DELAY": "",

"NAS\_DELAY": "",

"SECURITY\_DELAY": "",

"LATE\_AIRCRAFT\_DELAY": "",

"": ""

}

],

"ok": 1

}

**Query 4:**

code:

function () {

var agg = db.flight\_info.aggregate(

{$match: {CANCELLED: 1}},

{$group: {\_id: { airport\_id: '$ORIGIN\_AIRPORT\_ID', city: '$ORIGIN\_CITY\_NAME'}, total\_cancellations: {$sum: 1}}},

{ $sort : { total\_cancellations: -1 } },

{ $limit : 1 }

);

return agg;

}

Selection:

Response from server:

{

"retval": {

"result": [

{

"\_id": {

"airport\_id": NumberInt(13930),

"city": "Chicago, IL"

},

"total\_cancellations": 3596

}

],

"ok": 1

},

"ok": 1

}