**MongoDB Queries**

**1. db.project.find({ "dname": "HR" }).pretty();**

{

"\_id" : 102,

"dname" : "HR",

"pnumber" : 70,

"employees" : [

{

"lname" : "Maxfield",

"hours" : 20,

"fname" : "Erin"

},

{

"lname" : "Jones",

"hours" : 40,

"fname" : "Megan"

},

{

"lname" : "Liang",

"hours" : 10,

"fname" : "Percy"

},

{

"lname" : "Lewallen",

"hours" : 2,

"fname" : "Roy"

}

],

"pname" : "Advertizing"

}

{

"\_id" : 108,

"dname" : "HR",

"pnumber" : 95,

"employees" : [

{

"lname" : "Linda",

"hours" : 40,

"fname" : "Juan"

},

{

"lname" : "Mary",

"hours" : 35,

"fname" : "willie"

},

{

"lname" : "Cucuou",

"hours" : 23,

"fname" : "Sheldon"

},

{

"lname" : "Lewallen",

"hours" : 3,

"fname" : "Roy"

}

],

"pname" : "Human1"

}

**2.db.project.find({"$and":[{"employees.fname":"Red"},{"employees.lname":"Bacher"}]}).pretty()**

{

"\_id" : 105,

"dname" : "Software",

"pnumber" : 62,

"employees" : [

{

"lname" : "Wallis",

"hours" : 40,

"fname" : "Evan"

},

{

"lname" : "Zell",

"hours" : 48,

"fname" : "Josh"

},

{

"lname" : "Vile",

"hours" : 40,

"fname" : "Andy"

},

{

"lname" : "Brand",

"hours" : 40,

"fname" : "Tom"

},

{

"lname" : "Vos",

"hours" : 40,

"fname" : "Jenny"

},

{

"lname" : "Carter",

"hours" : 40,

"fname" : "Chris"

},

{

"lname" : "Maxfield",

"hours" : 20,

"fname" : "Erin"

},

{

"lname" : "Ted",

"hours" : 25,

"fname" : "Kim"

},

{

"lname" : "Head",

"hours" : 40,

"fname" : "Arnold"

},

{

"lname" : "Bacher",

"hours" : 10,

"fname" : "Red"

},

{

"lname" : "Lewallen",

"hours" : 4,

"fname" : "Roy"

}

],

"pname" : "DatabaseSystems"

}

{

"\_id" : 111,

"dname" : "Software",

"pnumber" : 63,

"employees" : [

{

"lname" : "Joy",

"hours" : 20,

"fname" : "Jennifer"

},

{

"lname" : "Grace",

"hours" : 40,

"fname" : "Kim"

},

{

"lname" : "Chase",

"hours" : 46,

"fname" : "Jeff"

},

{

"lname" : "Barbara",

"hours" : 40,

"fname" : "Jose"

},

{

"lname" : "Burklow",

"hours" : 25,

"fname" : "Cindy"

},

{

"lname" : "Laurie",

"hours" : 25,

"fname" : "Gregory"

},

{

"lname" : "Pataki",

"hours" : 40,

"fname" : "Helga"

},

{

"lname" : "Bacher",

"hours" : 10,

"fname" : "Red"

},

{

"lname" : "Lewallen",

"hours" : 4,

"fname" : "Roy"

}

],

"pname" : "Middleware"

}

{

"\_id" : 114,

"dname" : "Software",

"pnumber" : 61,

"employees" : [

{

"lname" : "James",

"hours" : 40,

"fname" : "Jared"

},

{

"lname" : "Jones",

"hours" : 40,

"fname" : "Jon"

},

{

"lname" : "Mark",

"hours" : 40,

"fname" : "Justin"

},

{

"lname" : "Knight",

"hours" : 40,

"fname" : "Brad"

},

{

"lname" : "Hisel",

"hours" : 4,

"fname" : "Christina"

},

{

"lname" : "Small",

"hours" : 40,

"fname" : "Gerald"

},

{

"lname" : "Drew",

"hours" : 40,

"fname" : "Naveen"

},

{

"lname" : "Reedy",

"hours" : 40,

"fname" : "Carl"

},

{

"lname" : "Hall",

"hours" : 40,

"fname" : "Sammy"

},

{

"lname" : "Bacher",

"hours" : 30,

"fname" : "Red"

},

{

"lname" : "Lewallen",

"hours" : 4,

"fname" : "Roy"

}

],

"pname" : "OperatingSystem"

}

**3. db.department.find().limit(3)**

{ "\_id" : 11, "dname" : "Software", "mgr\_lname" : "James", "locations" : [ " 'Atlanta'", " 'Sacramento'" ] }

{ "\_id" : 12, "dname" : "HR", "mgr\_lname" : "Linda", "locations" : [ " 'Arlington'" ] }

{ "\_id" : 13, "dname" : "Research'", "mgr\_lname" : "Wong", "locations" : [ " 'Bellaire'", " 'Sugarland'", " 'Houston'" ] }

**4. db.project.find({dname: "Software"}, {pname: true, \_id: false}).pretty()**

{ "pname" : "ConfigMgmt" }

{ "pname" : "DatabaseSystems" }

{ "pname" : "DataMining" }

{ "pname" : "Middleware" }

{ "pname" : "OperatingSystem" }

{ "pname" : "SearchEngine" }

**5.** **db.project.find({dname: "Software"}, {pnumber: true, pname:true,\_id: false}).sort({pnumber: 1}).pretty()**

{ "pnumber" : 11, "pname" : "ConfigMgmt" }

{ "pnumber" : 13, "pname" : "DataMining" }

{ "pnumber" : 22, "pname" : "SearchEngine" }

{ "pnumber" : 61, "pname" : "OperatingSystem" }

{ "pnumber" : 62, "pname" : "DatabaseSystems" }

{ "pnumber" : 63, "pname" : "Middleware" }

**6. db.department.find({"locations" : " 'Houston'" })**

{ "\_id" : 13, "dname" : "Research'", "mgr\_lname" : "Wong", "locations" : [ " 'Bellaire'", " 'Sugarland'", " 'Houston'" ] }

{ "\_id" : 16, "dname" : "Headquarters", "mgr\_lname" : "Borg", "locations" : [ " 'Houston'" ] }