TUGAS BASIS DATA LANJUT "MongoDB CRUD Operations"

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NIM : 17050623013

Prodi : D3-Manajemen Informatika

1. Insert Documents

2. Query Documents

A. Query on Embedded/Nested Documen

```
C:\Windows\system32\cmd.exe - mongo
 db.queryEmbedded.find().pretty()
         "_id" : ObjectId("5c9f9174cfc7e4153e75eecd"),
         "Nama" : "Kawasaki All New Ninja 250 FI",
         "Kapasitas_mesin" : "249 cc",
"Kapasitas_tangki" : "14 liter",
         "Stok" : 10,
         "Dimensi" : {
                  "Panjang" : "1,990 mm",
"Lebar" : "710 mm",
"Tinggi" : "1,125 mm"
         },
"Tipe" : "ABS"
         "_id" : ObjectId("5c9f9174cfc7e4153e75eece"),
        "Nama" : "KTM Duke 250",
         "Kapasitas mesin" : "248,8 cc",
         "Kapasitas tangki" : "13.4 liter",
         "Stok" : 7,
        "Dimensi" : {
    "Panjang" : "2,026 mm",
    "Lebar" : "836 mm",
                   "Tinggi" : "1,267 mm"
        },
"Tipe" : "ABS"
```

```
C:\Windows\system32\cmd.exe - mongo
             _id" : ObjectId("5c9f9174cfc7e4153e75eecf"),
             "Nama" : "Kawasaki Ninja 250SL",
             "Kapasitas_mesin" : "249 cc",
             "Kapasitas tangki" : "11 liter",
            },
"Tipe" : "Non-ABS"
             "_id" : ObjectId("5c9f9174cfc7e4153e75eed0"),
            "Nama" : "Yamaha MT-25",
             "Kapasitas_mesin" : "250 cc",
"Kapasitas_tangki" : "14 liter",
             "Stok" : 5,
             "Dimensi" : {
                           "Panjang" : "2,090 mm",
"Lebar" : "745 mm",
                           "Tinggi" : "1,035 mm"
             },
"Tipe" : "Non-ABS"
             "_id" : ObjectId("5c9f9174cfc7e4153e75eed1"),
             "Nama" : "Yamaha MT-15",
            "Kapasitas_mesin" : "155 cc",
"Kapasitas_tangki" : "10,4 liter",
             "Stok" : 20,
            "Stok . 20,
"Dimensi" : {
    "Panjang" : "1,965 mm",
    "Lebar" : "800 mm",
                           "Tinggi" : "1,065 mm"
             },
"Tipe" : "Non-ABS"
C:\Windows\system32\cmd.exe - mongo
 db.queryEmbedded.find( {Dimensi:{Panjang:"2,090 mm", Lebar:"745 mm", Tinggi:"1,035 mm"}, Tipe:"Non-ABS"} )
"_id" : ObjectId("5c9f9174cfc7e4153e75eed0"), "Nama" : "Yamaha MT-25", "Kapasitas_mesin" : "250 cc", "Kapasitas_tangki
: "14 liter", "Stok" : 5, "Dimensi" : { "Panjang" : "2,090 mm", "Lebar" : "745 mm", "Tinggi" : "1,035 mm" }, "Tipe" :
Non-ABS" }
C:\Windows\system32\cmd.exe - mongo
                                                                                                                                        П
 db.queryEmbedded.find( {"Dimensi.Lebar":"800 mm"} )

"_id" : ObjectId("5c9f9174cfc7e4153e75eed1"), "Nama" : "Yamaha MT-15", "Kapasitas_mesin" : "155 cc", "Kapasitas_tangki
: "10,4 liter", "Stok" : 20, "Dimensi" : { "Panjang" : "1,965 mm", "Lebar" : "800 mm", "Tinggi" : "1,065 mm" }, "Tipe"
"Non-ABS" }
```

B. Query an Array

```
C:\Windows\system32\cmd.exe - mongo
                       "_id" : ObjectId("5ca0af5fefb8ee7f157d489f"),
"Nama" : "Yamaha MT-25",
"Stok" : 4,
                                            : [
"Putih",
"Hitam"
                        "Warna"
                        ],
"Dimensi" : [
                                                2090,
                                               745,
                                                1035
                        ],
"Satuan" : "mm"
                       "_id" : ObjectId("5ca0af5fefb8ee7f157d48a0"),
"Nama" : "Yamaha MT-15",
"Stok" : 13,
                        "Warna" : [
                                               "Putih",
"Hitam"
                        ],
"Dimensi" : [
                                               1965,
                                                800,
                                                1065
                        ],
"Satuan" : "mm"
 C:\Windows\system32\cmd.exe - mongo
   db.queryArray.find({Warna:["Hitam", "Hijau"]})
"_id" : ObjectId("5ca0af5fefb8ee7f157d489e"), "Nama" : "Kawasaki Ninja 250SL", "Stok" : 15, "Warna" : [ "Hitam", "Hija
' ], "Dimensi" : [ 1935, 685, 1075 ], "Satuan" : "mm" }
 C:\Windows\system32\cmd.exe - mongo
                                                                                                                                                                                                                                                                                          db.queryArray.find( {Warna: { $all: ["Hitam", "Hijau"] } })
"_id": ObjectId("5ca0af5fefb8ee7f157d489c"), "Nama": "Kawasaki All New Ninja 250 FI", "Stok": 10, "Warna": [ "Hija
", "Hitam" ], "Dimensi": [ 1990, 710, 1125 ], "Satuan": "mm" }
"_id": ObjectId("5ca0af5fefb8ee7f157d489e"), "Nama": "Kawasaki Ninja 250SL", "Stok": 15, "Warna": [ "Hitam", "Hija
"], "Dimensi": [ 1935, 685, 1075 ], "Satuan": "mm" }
                                                                                                                                                                                                                                                                                           C:\Windows\system32\cmd.exe - mongo
> db.queryArray.find( {Warna: "Hitam" } )
{ "_id" : ObjectId("5ca0af5fefb8ee7f157d489c"), "Nama" : "Kawasaki All New Ninja 250 FI", "Stok" : 10, "Warna" : [ "Hija
u", "Hitam" ], "Dimensi" : [ 1990, 710, 1125 ], "Satuan" : "mm" }
{ "_id" : ObjectId("5ca0af5fefb8ee7f157d489e"), "Nama" : "Kawasaki Ninja 250SL", "Stok" : 15, "Warna" : [ "Hitam", "Hija
u" ], "Dimensi" : [ 1935, 685, 1075 ], "Satuan" : "mm" }
{ "_id" : ObjectId("5ca0af5fefb8ee7f157d489f"), "Nama" : "Yamaha MT-25", "Stok" : 4, "Warna" : [ "Putih", "Hitam" ], "Di
mensi" : [ 2090, 745, 1035 ], "Satuan" : "mm" }
{ "_id" : ObjectId("5ca0af5fefb8ee7f157d48a0"), "Nama" : "Yamaha MT-15", "Stok" : 13, "Warna" : [ "Putih", "Hitam" ], "D
imensi" : [ 1965, 800, 1065 ], "Satuan" : "mm" }
>
C:\Windows\svstem32\cmd.exe - mongo
                                                                                                                                                                                                                                                                                          ×
> db.queryArray.find({Stok: {$gt: 10}})
{ "_id" : ObjectId("5ca0af5fefb8ee7f157d489e"), "Nama" : "Kawasaki Ninja 250SL", "Stok" : 15, "Warna" : [ "Hitam", "Hija
u" ], "Dimensi" : [ 1935, 685, 1075 ], "Satuan" : "mm" }
{ "_id" : ObjectId("Sca0af5fefb8ee7f157d48a0"), "Nama" : "Yamaha MT-15", "Stok" : 13, "Warna" : [ "Putih", "Hitam" ], "D
imensi" : [ 1965, 800, 1065 ], "Satuan" : "mm" }
```

```
C:\Windows\system32\cmd.exe - mongo
       b.queryArray.find({Stok: {$gt: 10, $lt: 20}})
_id" : ObjectId("5ca0af5fefb8ee7f157d489e"), "Nama" : "Kawasaki Ninja 250SL", "Stok" : 15, "Warna" : [ "Hitam", "Hija
], "Dimensi" : [ 1935, 685, 1075 ], "Satuan" : "mm" }
_id" : ObjectId("5ca0af5fefb8ee7f157d48a0"), "Nama" : "Yamaha MT-15", "Stok" : 13, "Warna" : [ "Putih", "Hitam" ], "D
nsi" : [ 1965, 800, 1065 ], "Satuan" : "mm" }
  mensi" : [ 1965, 800, 1065 ], "Satuan" :
 C:\Windows\system32\cmd.exe - mongo
                                                                                                                                                                                                                                                                                                        ×
   db.queryArray.find({Dimensi: {$elemMatch: {$gt: 2000, $gt: 700, $lt: 1500}}})

"_id": ObjectId("5ca0af5fefb8ee7f157d489c"), "Nama": "Kawasaki All New Ninja 250 FI", "Stok": 10, "Warna": [ "Hij
", "Hitam"], "Dimensi": [ 1990, 710, 1125 ], "Satuan": "mm" }

"_id": ObjectId("5ca0af5fefb8ee7f157d489d"), "Nama": "KTM New Duke 250", "Stok": 5, "Warna": [ "Oranye", "Putih"
"Dimensi": [ 2026, 836, 1267 ], "Satuan": "mm" }

"_id": ObjectId("5ca0af5fefb8ee7f157d489e"), "Nama": "Kawasaki Ninja 250SL", "Stok": 15, "Warna": [ "Hitam", "Hij
"], "Dimensi": [ 1935, 685, 1075 ], "Satuan": "mm" }

"_id": ObjectId("Sca0af5fefb8ee7f157d489f"), "Nama": "Yamaha MT-25", "Stok": 4, "Warna": [ "Putih", "Hitam"], "D
                                                                                                                                                  $gt: 700, $lt: 1500}}})
: "Kawasaki All New Ninja 250 FI", "Stok" : 10, "Warna" : [ "Hija
                                                                                                                                               : "Kawasaki Ninja 250SL", "Stok" : 15, "Warna" : [ "Hitam", "Hija
                                                                                                                                              }
: "Yamaha MT-25", "Stok" : 4, "Warna" : [ "Putih", "Hitam" ], "Di
  "Nama" : "Yamaha MT-15", "Stok" : 13, "Warna" : [ "Putih", "Hitam" ], "D
  mensi" : [ 1965, 800, 1065 ], "Satuan" :
 C:\Windows\system32\cmd.exe - mongo
                                                                                                                                                                                                                                                                                                        X
Adb.queryArray.find({"Dimensi.1": {$gt: 700}})

{ "_id": ObjectId("5ca0af5fefb8ee7f157d489c"), "Nama": "Kawasaki All New Ninja 250 FI", "Stok": 10, "Warna": [ "Hija u", "Hitam"], "Dimensi": [ 1990, 710, 1125], "Satuan": "mm" }

{ "_id": ObjectId("Sca0af5fefb8ee7f157d489d"), "Nama": "KTM New Duke 250", "Stok": 5, "Warna": [ "Oranye", "Putih"], "Dimensi": [ 2026, 836, 1267], "Satuan": "mm" }

{ "_id": ObjectId("Sca0af5fefb8ee7f157d489f"), "Nama": "Yamaha MT-25", "Stok": 4, "Warna": [ "Putih", "Hitam"], "Dimensi": [ 2090, 745, 1035], "Satuan": "mm" }

{ "_id": ObjectId("Sca0af5fefb8ee7f157d48a0"), "Nama": "Yamaha MT-15", "Stok": 13, "Warna": [ "Putih", "Hitam"], "Dimensi": [ 1965, 800, 1065], "Satuan": "mm" }
                                                                                                                                                                                                                                                                                                       X
 C:\Windows\system32\cmd.exe - mongo
> db.queryArray.find({"Warna": {$size: 2}})
{ "_id" : ObjectId("Sca0af5fefb8ee7f157d489c"), "Nau", "Hitam" ], "Dimensi" : [ 1990, 710, 1125 ], "Satan" : ObjectId("Sca0af5fefb8ee7f157d489d"), "Natan" : [ 2026, 836, 1267 ], "Satuan" : "mm" { "_id" : ObjectId("Sca0af5fefb8ee7f157d489e"), "Natan" : "objectId("Sca0af5fefb8ee7f157d489e"), "Natan" : "objectId("Sca0af5fefb8ee7f157d489f"), "Natan" : "mm" } { "_id" : ObjectId("Sca0af5fefb8ee7f157d489f"), "Natan" : "mm" } { "_id" : ObjectId("Sca0af5fefb8ee7f157d48a0"), "Natann" : "mm" } 
                                                                                                                             "Nama" : "Kawasaki All New Ninja 250 FI", "Stok" : 10, "Warna" : [ "Hija "Satuan" : "mm" }
"Nama" : "KTM New Duke 250", "Stok" : 5, "Warna" : [ "Oranye", "Putih" ]
                                                                                                                              "Nama" : "Kawasaki Ninja 250SL", "Stok" : 15, "Warna" : [ "Hitam", "Hija
                                                                                                                                   "mm"
                                                                                                                              "Nama" : "Yamaha MT-25", "Stok" : 4, "Warna" : [ "Putih", "Hitam" ], "Di
                                                                                                                             "Nama" : "Yamaha MT-15", "Stok" : 13, "Warna" : [ "Putih", "Hitam" ], "D
```

C. Query an Array of Embedded Documents

C:\Windows\system32\cmd.exe - mongo

```
__id" : ObjectId("5ca0bd47efb8ee7f157d48a3"),
"Nama" : "Kawasaki Ninja 250SL",
"Stok" : [
                  "Dealer" : "A",
"Unit" : 20
                  "Dealer" : "D",
                 "Unit" : 14
         }
"_id" : ObjectId("5ca0bd47efb8ee7f157d48a4"),
"Nama" : "Yamaha MT-25",
"Stok" : [
                  "Dealer" : "C",
"Unit" : 5
                  "Dealer" : "D",
                 "Unit" : 4
         }
"_id" : ObjectId("5ca0bd47efb8ee7f157d48a5"),
"Nama" : "Yamaha MT-15",
"Stok" : [
                  "Dealer" : "A",
                  "Unit" : 15
                  "Dealer" : "C",
                  "Unit" : 20
]
```

```
C:\Windows\system32\cmd.exe - mongo
                                                                                                                                                                                                                                                                                                                                                                                                                          > db.queryArrayEmbedded.find({'Stok.Unit': {$lte: 10}})
{ "_id" : ObjectId("5ca0bd47efb8ee7f157d48a1"), "Nama" : "Kawasaki All New Ninja 250 FI", "Stok" : [ { "Dealer" : "A",
Unit" : 10 }, { "Dealer" : "C", "Unit" : 12 } ] }
{ "_id" : ObjectId("5ca0bd47efb8ee7f157d48a2"), "Nama" : "KTM New Duke 250", "Stok" : [ { "Dealer" : "B", "Unit" : 5 }
 }
[ "_id" : ObjectId("5ca0bd47efb8ee7f157d48a4"), "Nama" : "Yamaha MT-25", "Stok" : [ { "Dealer" : "C", "Unit" : 5 }, { "D
ealer" : "D", "Unit" : 4 } ] }
 C:\Windows\system32\cmd.exe - mongo
                                                                                                                                                                                                                                                                                                                                                                                                                            X
                 queryArrayEmbedded.find({'Stok.0.Unit': {$lte: 5}})
d" : ObjectId("5ca0bd47efb8ee7f157d48a2"), "Nama" : "KTM New Duke 250", "Stok" : [ { "Dealer" : "B", "Unit" : 5 }
   '"_id" : ObjectId("5ca0bd47efb8ee7f157d48a4"), "Nama" : "Yamaha MT-25", "Stok" : [ { "Dealer" : "C", "Unit" : 5 }, { "D
aler" : "D", "Unit" : 4 } ] }
  C:\Windows\system32\cmd.exe - mongo
                                                                                                                                                                                                                                                                                                                                                                                                                            ×
      db.queryArrayEmbedded.find({"Stok": {$elemMatch: {Unit: 10, Dealer:"A"}}})
    "_id" : ObjectId("5ca0bd47efb8ee7f157d48a1"), "Nama" : "Kawasaki All New Ninja 250 FI", "Stok" : [ { "Dealer"
    it" : 10 }, { "Dealer" : "C", "Unit" : 12 } ] }
 ■ C:\Windows\system32\cmd.exe - mongo
                                                                                                                                                                                                                                                                                                                                                                                                                            П
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ×
> db.queryArrayEmbedded.find({"Stok": {$elemMatch: {Unit: {$gt: 10, $lte: 20}}}})
{ "_id" : ObjectId("Sca0bd47efb8ee7f157d48a1"), "Nama" : "Kawasaki All New Ninja 250 FI", "Stok" : [ { "Dealer" : "A", Unit" : 10 }, { "Dealer" : "C", "Unit" : 12 } ] }
{ "_id" : ObjectId("Sca0bd47efb8ee7f157d48a3"), "Nama" : "Kawasaki Ninja 250SL", "Stok" : [ { "Dealer" : "A", "Unit" : 0 }, { "Dealer" : "D", "Unit" : 14 } ] }
{ "_id" : ObjectId("Sca0bd47efb8ee7f157d48a5"), "Nama" : "Yamaha MT-15", "Stok" : [ { "Dealer" : "A", "Unit" : 15 }, { Dealer" : "C", "Unit" : 20 } ] }
                                                                                                                                                                                                                                                                                                                                                                                                                            C:\Windows\system32\cmd.exe - mongo
                                                                                                                                                                                                                                                                                                                                                                                                                                                 X
> db.queryArrayEmbedded.find({"Stok.Unit": {$gt: 10, $lte: 20}})
{ "_id" : ObjectId("5ca0bd47efb8ee7f157d48a1"), "Nama" : "Kawasaki All New Ninja 250 FI", "Stok" : [ { "Dealer" : "A",
Unit" : 10 }, { "Dealer" : "C", "Unit" : 12 } ] }
{ "_id" : ObjectId("5ca0bd47efb8ee7f157d48a3"), "Nama" : "Kawasaki Ninja 250SL", "Stok" : [ { "Dealer" : "A", "Unit" :
0 }, { "Dealer" : "D", "Unit" : 14 } ] }
{ "_id" : ObjectId("5ca0bd47efb8ee7f157d48a5"), "Nama" : "Yamaha MT-15", "Stok" : [ { "Dealer" : "A", "Unit" : 15 }, {
Dealer" : "C", "Unit" : 20 } ] }
                                                                                                                                                                                                                                                                                                                                                                                                                                                  X
 C:\Windows\system32\cmd.exe - mongo
                                                                                                                                                                                                                                                                                                                                                                                                                            queryArrayEmbedded.find({"Stok.Unit": 5, "Stok.Dealer": "B"})
d" : ObjectId("5ca0bd47efb8ee7f157d48a2"), "Nama" : "KTM New Duke 250", "Stok" : [ { "Dealer" : "B", "Unit" : 5 }
  o'db.queryArrayEmbedded.find({"Stok.Unit": 5, "Stok.Dealer": "C"})
[ "_id" : ObjectId("Sca0bd47efb8ee7f157d48a4"), "Nama" : "Yamaha MT-25", "Stok" : [ { "Dealer" : "C", "Unit" : 5 }, { "Dealer" : "C", "Deal
```

D. Project Fields to Return from Query

Select C:\Windows\system32\cmd.exe - mongo

```
db.queryProject.find().pretty()
     __id" : ObjectId("5ca0c736efb8ee7f157d48a6"),
     "Nama" : "Kawasaki All New Ninja 250 FI",
     "Status": "Ready",
     "Tipe" : "ABS"
     },
"Stok" : [
                     "Dealer" : "A",
                     "Unit" : 15
     "_id" : ObjectId("5ca0c736efb8ee7f157d48a7"),
     "Nama" : "KTM New Duke 250",
     "Status" : "Inden",
     "L" : 836,
"T" : 1267,
"Tipe" : "ABS"
                     "Dealer" : "B",
                     "Unit" : 5
```

```
"_id" : ObjectId("5ca0c736efb8ee7f157d48a8"),
"Nama" : "Kawasaki Ninja 250SL",
"Tipe" : "ABS"
"Dealer" : "C",
                    "Unit" : 17
"_id" : ObjectId("5ca0c736efb8ee7f157d48a9"),
"Nama" : "Yamaha MT-25",
"Status" : "Inden",
"Dimensi" : {
          "P" : 2090,
          "L" : 745,
"T" : 1035,
"Tipe" : "Non-ABS"
},
"Stok" : [
                    "Dealer" : "A",
"Unit" : 6
]
```

```
C:\Windows\system32\cmd.exe - mongo
```

```
C:\Windows\system32\cmd.exe - mongo
```

```
> db.queryProject.find({Status:"Ready"}, {Nama: 1, Status: 1, _id: 0})
{ "Nama" : "Kawasaki All New Ninja 250 FI", "Status" : "Ready" }
{ "Nama" : "Kawasaki Ninja 250SL", "Status" : "Ready" }
{ "Nama" : "Yamaha MT-15", "Status" : "Ready" }
>
```

```
db.queryProject.find({Status:"Ready"}, {Status: 0, Stok: 0})

"_id" : ObjectId("Sca0c736efb8ee7f157d48a6"), "Nama" : "Kawasaki All New Ninja 250 FI", "Dimensi" : { "P" : 1990, "L" 710, "T" : 1125, "Tipe" : "ABS" } }

"_id" : ObjectId("Sca0c736efb8ee7f157d48a8"), "Nama" : "Kawasaki Ninja 250SL", "Dimensi" : { "P" : 1935, "L" : 685, "T : 1075, "Tipe" : "ABS" } }

"_id" : ObjectId("Sca0c736efb8ee7f157d48aa"), "Nama" : "Yamaha MT-15", "Dimensi" : { "P" : 1965, "L" : 800, "T" : 1065 "Tipe" : "Non-ABS" } }
C:\Windows\system32\cmd.exe - mongo
                                                                                                                                                                                                                                                                                                                       C:\Windows\system32\cmd.exe - mongo
  db.queryProject.find(
.. {Status:"Ready"},
.. {Nama: 1, Status: 1, "Dimensi.Tipe": 1}
         ,
id" : ObjectId("5ca0c736efb8ee7f157d48a6"), "Nama" : "Kawasaki All New Ninja 250 FI", "Status" : "Ready", "Dimensi"
        "Tipe" : "ABS" } }
_id" : ObjectId("5ca0c736efb8ee7f157d48a8"), "Nama" : "Kawasaki Ninja 250SL", "Status" : "Ready", "Dimensi" : { "Tipe
                   S" } }
: ObjectId("5ca0c736efb8ee7f157d48aa"), "Nama" : "Yamaha MT-15", "Status" : "Ready", "Dimensi" : { "Tipe" : "Non
C:\Windows\system32\cmd.exe - mongo
                                                                                                                                                                                                                                                                                                                      ×
odb.queryProject.find( {Status:"Ready"}, {"Dimensi.Tipe": 0} )
[ "_id" : ObjectId("5ca0c736efb8ee7f157d48a6"), "Nama" : "Kawasaki All New Ninja 250 FI", "Status" : "Ready", "Dimensi"
[ { "P" : 1990, "L" : 710, "T" : 1125 }, "Stok" : [ { "Dealer" : "A", "Unit" : 15 } ] }
[ "_id" : ObjectId("5ca0c736efb8ee7f157d48a8"), "Nama" : "Kawasaki Ninja 250SL", "Status" : "Ready", "Dimensi" : { "P"
1935, "L" : 685, "T" : 1075 }, "Stok" : [ { "Dealer" : "C", "Unit" : 17 } ] }
[ "_id" : ObjectId("5ca0c736efb8ee7f157d48aa"), "Nama" : "Yamaha MT-15", "Status" : "Ready", "Dimensi" : { "P" : 1965, "
" : 800, "T" : 1065 }, "Stok" : [ { "Dealer" : "A", "Unit" : 10 }, { "Dealer" : "C", "Unit" : 15 } ] }
C:\Windows\system32\cmd.exe - mongo
                                                                                                                                                                                                                                                                                                                                       ×
    db.queryProject.find( {Status:"Ready"}, {Nama: 1, Status: 1, "Stok.Unit": 1} )
"_id" : ObjectId("5ca0c736efb8ee7f157d48a6"), "Nama" : "Kawasaki All New Ninja 250 FI", "Status" : "Ready", "Stok" : [
"Unit" : 15 } ]
"_id" : ObjectId("5ca0c736efb8ee7f157d48a8"), "Nama" : "Kawasaki Ninja 250SL", "Status" : "Ready", "Stok" : [ { "Unit"
17 } ] }
"_id" : ObjectId("5ca0c736efb8ee7f157d48aa"), "Nama" : "Yamaha MT-15", "Status" : "Ready", "Stok" : [ { "Unit" : 10 },
"Unit" : 15 } ] }
C:\Windows\system32\cmd.exe - mongo
   db.queryProject.find( {Status:"Ready"}, {Nama: 1, Status: 1, Stok: {$slice: -1}} )

"_id" : ObjectId("Sca0c736efb8ee7f157d48a6"), "Nama" : "Kawasaki All New Ninja 250 FI", "Status" : "Ready", "Stok" : [
"Dealer" : "A", "Unit" : 15 } ] }

"_id" : ObjectId("Sca0c736efb8ee7f157d48a8"), "Nama" : "Kawasaki Ninja 250SL", "Status" : "Ready", "Stok" : [ { "Deale" : "C", "Unit" : 17 } ] }

"_id" : ObjectId("Sca0c736efb8ee7f157d48aa"), "Nama" : "Yamaha MT-15", "Status" : "Ready", "Stok" : [ { "Dealer" : "C" "Unit" : 15 } ] }
```

E. Query for Null or Missing Fields

C:\Windows\system32\cmd.exe - mongo

```
> db.queryNull.insertMany([
... {_id: 1, item: null},
... {_id: 2}
... ])
{ "acknowledged" : true, "insertedIds" : [ 1, 2 ] }
> db.queryNull.find().pretty()
{ "_id" : 1, "item" : null }
{ "_id" : 2 }
>
```

C:\Windows\system32\cmd.exe - mongo

```
> db.queryNull.find({item: null})
{ "_id" : 1, "item" : null }
{ "_id" : 2 }
> db.queryNull.find({item: {$type: 10}})
{ "_id" : 1, "item" : null }
> db.queryNull.find({item: {$exists: false}})
{ "_id" : 2 }
>
```

3. Update Documents

C:\Windows\system32\cmd.exe - mongo

```
C:\Windows\system32\cmd.exe - mongo
     "T" : 1075,
"Tipe" : "ABS"
     },
"Status" : "Ready"
     "_id" : ObjectId("5ca5046c1b716a82b0b8a470"),
     "Nama" : "Yamaha MT-25",
"Unit" : 4,
     "L" : 745,
            "T" : 1035,
            "Tipe" : "Non-ABS"
     },
"Status" : "Inden"
     "_id" : ObjectId("5ca5046c1b716a82b0b8a471"),
     },
"Status" : "Ready"
```

C:\Windows\system32\cmd.exe - mongo

```
> db.update.updateOne(
... {Nama:"Kawasaki Ninja 250SL"},
... {
... $set: {"Dimensi.Tipe": "Non-ABS", Status: "Inden"},
... $currentDate: {lastModified: true}
... }
... }
... )
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
>
```

4. Delete Documents