Assignment No.14

1. $where

```
> db.order_management_system.find({$where: function(){return
((this.phno%100+1)==this.zipcode%100)}});
{ "_id" : ObjectId("5fa4edd4fe2ba8dbbda4fa1c"), "id" : 50,
"name" : "Saloni Parekh", "city" : "Solapur", "zipcode" :
411032, "phno" : 7212026631 }

> db.order_management_system.find({$where: function(){return
(this.id<60)}});
{ "_id" : ObjectId("5fa4edb2fe2ba8dbbda4fa19"), "id" : 55,
"name" : "Shreyas Kalrao", "city" : "Pune", "zipcode" :
411016, "phno" : 9275029731 }
{ "_id" : ObjectId("5fa4edcffe2ba8dbbda4fa1a"), "id" : 57,
"name" : "Sushant Sontakke", "city" : "Kolhapur", "zipcode" :
211011, "phno" : 7272029631 }
{ "_id" : ObjectId("5fa4edd4fe2ba8dbbda4fa1b"), "id" : 49,
"name" : "Harsh Sakhrani", "city" : "Solapur", "zipcode" :
411001, "phno" : 9272129431 }
{ "_id" : ObjectId("5fa4edd4fe2ba8dbbda4fa1c"), "id" : 50,
"name" : "Saloni Parekh", "city" : "Solapur", "zipcode" :
411032, "phno" : 7212026631 }
{ "_id" : ObjectId("5faa3421a5d3da31563dffb5"), "id" : 51,
"name" : "Anuj Saoii", "city" : "Latur", "zipcode" : 111302,
"phno" : 9572226431 }
{ "_id" : ObjectId("5faa3421a5d3da31563dffb6"), "id" : 52,
"name" : "Onkar Sharma", "city" : "Nashik", "zipcode" :
321456, "phno" : 8212026131 }
{ "_id" : ObjectId("5faa3421a5d3da31563dffb7"), "id" : 53,
"name" : "Prathamesh Shiralkar", "city" : "Latur",
"zipcode" : 312402, "phno" : 7574286431 }
{ "_id" : ObjectId("5faa345aa5d3da31563dffb8"), "id" : 54,
"name" : "Muskaan Shraogi", "city" : "Akola", "zipcode" :
221011, "phno" : 8271023631 }

> db.order_management_system.find({$where: function(){return
(this.city=="Solapur")}});
{ "_id" : ObjectId("5fa4edd4fe2ba8dbbda4fa1b"), "id" : 49,
"name" : "Harsh Sakhrani", "city" : "Solapur", "zipcode" :
411001, "phno" : 9272129431 }
{ "_id" : ObjectId("5fa4edd4fe2ba8dbbda4fa1c"), "id" : 50,
"name" : "Saloni Parekh", "city" : "Solapur", "zipcode" :
411032, "phno" : 7212026631 }
```

```
{ "_id" : ObjectId("5fc65f91c1fb2c16a5f1d05b"), "id" : 33256,
"name" : "Someshwar Gaikwad", "city" : "Solapur" }

2. Cursors

> db.order_management_system.find().count();
10
> db.order_management_system.find().limit(4);
{ "_id" : ObjectId("5fa4eda5fe2ba8dbbda4fa18"), "id" :
33256 }
{ "_id" : ObjectId("5fa4edb2fe2ba8dbbda4fa19"), "id" : 55,
"name" : "Shreyas Kalrao", "city" : "Pune", "zipcode" :
411016, "phno" : 9275029731 }
{ "_id" : ObjectId("5fa4edcffe2ba8dbbda4fa1a"), "id" : 57,
"name" : "Sushant Sontakke", "city" : "Kolhapur", "zipcode" :
211011, "phno" : 7272029631 }
{ "_id" : ObjectId("5fa4edd4fe2ba8dbbda4fa1b"), "id" : 49,
"name" : "Harsh Sakhrani", "city" : "Solapur", "zipcode" :
411001, "phno" : 9272129431 }

> db.order_management_system.find().pretty();
{ "_id" : ObjectId("5fa4eda5fe2ba8dbbda4fa18"), "id" :
33256 }
{
    "_id" : ObjectId("5fa4edb2fe2ba8dbbda4fa19"),
    "id" : 55,
    "name" : "Shreyas Kalrao",
    "city" : "Pune",
    "zipcode" : 411016,
    "phno" : 9275029731
}
{
    "_id" : ObjectId("5fa4edcffe2ba8dbbda4fa1a"),
    "id" : 57,
    "name" : "Sushant Sontakke",
    "city" : "Kolhapur",
    "zipcode" : 211011,
    "phno" : 7272029631
}
{
    "_id" : ObjectId("5fa4edd4fe2ba8dbbda4fa1b"),
    "id" : 49,
    "name" : "Harsh Sakhrani",
    "city" : "Solapur",
    "zipcode" : 411001,
    "phno" : 9272129431
}
{
```

```
        "_id" : ObjectId("5fa4edd4fe2ba8dbbda4fa1c"),
        "id" : 50,
        "name" : "Saloni Parekh",
        "city" : "Solapur",
        "zipcode" : 411032,
        "phno" : 7212026631
}
{

        "_id" : ObjectId("5faa3421a5d3da31563dffb5"),
        "id" : 51,
        "name" : "Anuj Saoii",
        "city" : "Latur",
        "zipcode" : 111302,
        "phno" : 9572226431
}
{

        "_id" : ObjectId("5faa3421a5d3da31563dffb6"),
        "id" : 52,
        "name" : "Onkar Sharma",
        "city" : "Nashik",
        "zipcode" : 321456,
        "phno" : 8212026131
}
{

        "_id" : ObjectId("5faa3421a5d3da31563dffb7"),
        "id" : 53,
        "name" : "Prathamesh Shiralkar",
        "city" : "Latur",
        "zipcode" : 312402,
        "phno" : 7574286431
}
{

        "_id" : ObjectId("5faa345aa5d3da31563dffb8"),
        "id" : 54,
        "name" : "Muskaan Shraogi",
        "city" : "Akola",
        "zipcode" : 221011,
        "phno" : 8271023631
}
{

        "_id" : ObjectId("5fc65f91c1fb2c16a5f1d05b"),
        "id" : 33256,
        "name" : "Someshwar Gaikwad",
        "city" : "Solapur"
}

> db.order_management_system.find().sort({id: -1});
```

```
{ "_id" : ObjectId("5fa4eda5fe2ba8dbbda4fa18"), "id" :
33256 }
{ "_id" : ObjectId("5fc65f91c1fb2c16a5f1d05b"), "id" : 33256,
"name" : "Someshwar Gaikwad", "city" : "Solapur" }
{ "_id" : ObjectId("5fa4edcffe2ba8dbbda4fa1a"), "id" : 57,
"name" : "Sushant Sontakke", "city" : "Kolhapur", "zipcode" :
211011, "phno" : 7272029631 }
{ "_id" : ObjectId("5fa4edb2fe2ba8dbbda4fa19"), "id" : 55,
"name" : "Shreyas Kalrao", "city" : "Pune", "zipcode" :
411016, "phno" : 9275029731 }
{ "_id" : ObjectId("5faa345aa5d3da31563dffb8"), "id" : 54,
"name" : "Muskaan Shraogi", "city" : "Akola", "zipcode" :
221011, "phno" : 8271023631 }
{ "_id" : ObjectId("5faa3421a5d3da31563dffb7"), "id" : 53,
"name" : "Prathamesh Shiralkar", "city" : "Latur",
"zipcode" : 312402, "phno" : 7574286431 }
{ "_id" : ObjectId("5faa3421a5d3da31563dffb6"), "id" : 52,
"name" : "Onkar Sharma", "city" : "Nashik", "zipcode" :
321456, "phno" : 8212026131 }
{ "_id" : ObjectId("5faa3421a5d3da31563dffb5"), "id" : 51,
"name" : "Anuj Saoii", "city" : "Latur", "zipcode" : 111302,
"phno" : 9572226431 }
{ "_id" : ObjectId("5fa4edd4fe2ba8dbbda4fa1c"), "id" : 50,
"name" : "Saloni Parekh", "city" : "Solapur", "zipcode" :
411032, "phno" : 7212026631 }
{ "_id" : ObjectId("5fa4edd4fe2ba8dbbda4fa1b"), "id" : 49,
"name" : "Harsh Sakhrani", "city" : "Solapur", "zipcode" :
411001, "phno" : 9272129431 }
```

3. Database Commands

```
> db.runCommand({distinct: "order_management_system", key:
"city"});
{
    "values" : [
        "Akola",
        "Kolhapur",
        "Latur",
        "Nashik",
        "Pune",
        "Solapur"
    ],
    "ok" : 1
}
> db.runCommand({count: "order_management_system"});
{ "n" : 10, "ok" : 1 }
> db.runCommand({count: "order_management_system", query:
{city: "Solapur"}});
```

```
{ "n" : 3, "ok" : 1 }
```