

Group C: Assignment No.3

Execute at least 10 queries on above MongoDB database that demonstrates following:

- \$ where queries
- Cursors (Limits, skips, sorts, advanced query options)
- Database commands

1) \$where

```
> db.players.find({ $where: function() {return ((this.p_name) == "dhoni")} });
{ "_id" : 3, "p_name" : "dhoni", "info" : { "postion" : "WK-batsman", "country" : "india", "age" : 39 }, "price" : "10cr" }
> db.players.find({ $where: function() {return ((this.p_name) == "stokes")} });
{ "_id" : 5, "p_name" : "stokes", "info" : { "postion" : "all-rounder", "country" : "england", "age" : 29 }, "price" : "12cr" }
> db.auction.find({ $where: function() {return ((this.t_name) == "chennai super kings")} });
{ "_id" : 3, "p_id" : 3, "t_name" : "chennai super kings", "bought" : [ { "p_name" : "dhoni", "price" : 10 }, ], "total" : 10 }
{ "_id" : 7, "p_id" : 7, "t_name" : "chennai super kings", "bought" : [ { "p_name" : "stokes", "price" : 12 }, ], "total" : 12 }
```

```
> db.players.find()
{ "_id" : 1, "p_name" : "virat", "info" : { "postion" : "batsman", "country" : "india", "age" : 32 }, "price" : "18cr" }
{ "_id" : 2, "p_name" : "rohit", "info" : { "postion" : "batsman", "country" : "india", "age" : 33 }, "price" : "18cr" }
{ "_id" : 3, "p_name" : "dhoni", "info" : { "postion" : "WK-batsman", "country" : "india", "age" : 39 }, "price" : "10cr" }
{ "_id" : 4, "p_name" : "kl rahul", "info" : { "postion" : "WK-batsman", "country" : "india", "age" : 28 }, "price" : "14cr" }
{ "_id" : 5, "p_name" : "stokes", "info" : { "postion" : "all-rounder", "country" : "england", "age" : 29 }, "price" : "12cr" }
{ "_id" : 6, "p_name" : "rabada", "info" : { "postion" : "bowler", "country" : "south africa", "age" : 25 }, "price" : "15cr" }
{ "_id" : 7, "p_name" : "rashid", "info" : { "postion" : "bowler", "country" : "afghanistan", "age" : 22 }, "price" : "15cr" }
{ "_id" : 8, "p_name" : "bumrah", "info" : { "postion" : "bowler", "country" : "india", "age" : 26 }, "price" : "15cr" }
{ "_id" : 9, "p_name" : "gayle", "info" : { "postion" : "batsman", "country" : "west indies", "age" : 41 }, "price" : "5cr" }
{ "_id" : 10, "p_name" : "pooran", "info" : { "postion" : "WK-batsman", "country" : "west indies", "age" : 25 }, "price" : "9cr" }
> db.players.find({ $where: function() {return ((this.info.country) == "india")} });
{ "_id" : 1, "p_name" : "virat", "info" : { "postion" : "batsman", "country" : "india", "age" : 32 }, "price" : "18cr" }
{ "_id" : 2, "p_name" : "rohit", "info" : { "postion" : "batsman", "country" : "india", "age" : 33 }, "price" : "18cr" }
{ "_id" : 3, "p_name" : "dhoni", "info" : { "postion" : "WK-batsman", "country" : "india", "age" : 39 }, "price" : "10cr" }
{ "_id" : 4, "p_name" : "kl rahul", "info" : { "postion" : "WK-batsman", "country" : "india", "age" : 28 }, "price" : "14cr" }
{ "_id" : 8, "p_name" : "bumrah", "info" : { "postion" : "bowler", "country" : "india", "age" : 26 }, "price" : "15cr" }
> □
```

2) Cursors - \$where, forEach(), sort(), skip(), limit(), toArray()

```
> db.players.find({ $where: function() {return ((this.info.postion) == "batsman")} });
{ "_id" : 1, "p_name" : "virat", "info" : { "postion" : "batsman", "country" : "india", "age" : 32 }, "price" : "18cr" }
{ "_id" : 2, "p_name" : "rohit", "info" : { "postion" : "batsman", "country" : "india", "age" : 33 }, "price" : "18cr" }
{ "_id" : 9, "p_name" : "gayle", "info" : { "postion" : "batsman", "country" : "west indies", "age" : 41 }, "price" : "5cr" }
> db.players.find({ $where: function() {return ((this.info.postion) == "batsman")} }).count();
3
> □
```

```
> db.players.find().forEach(function(myDoc){print('Name:' + myDoc.p_name + ' Country : ' + myDoc.info.country + ' Price: ' + myDoc.price)});
Name:virat Country :india Price: 18cr
Name:rohit Country :india Price: 18cr
Name:dhoni Country :india Price: 10cr
Name:kl rahul Country :india Price: 14cr
Name:stokes Country :england Price: 12cr
Name:rabada Country :south africa Price: 15cr
Name:rashid Country :afghanistan Price: 15cr
Name:bumrah Country :india Price: 15cr
Name:gayle Country :west indies Price: 5cr
Name:pooran Country :west indies Price: 9cr
```

```
> db.players.find({ $where: function() {return ((this.info.country) == "india")} });
{ "_id" : 1, "p_name" : "virat", "info" : { "postion" : "batsman", "country" : "india", "age" : 32 }, "price" : "18cr" }
{ "_id" : 2, "p_name" : "rohit", "info" : { "postion" : "batsman", "country" : "india", "age" : 33 }, "price" : "18cr" }
{ "_id" : 3, "p_name" : "dhoni", "info" : { "postion" : "WK-batsman", "country" : "india", "age" : 39 }, "price" : "10cr" }
{ "_id" : 4, "p_name" : "kl rahul", "info" : { "postion" : "WK-batsman", "country" : "india", "age" : 28 }, "price" : "14cr" }
{ "_id" : 8, "p_name" : "bumrah", "info" : { "postion" : "bowler", "country" : "india", "age" : 26 }, "price" : "15cr" }
> db.players.find({ $where: function() {return ((this.info.country) == "india")} }).limit(3);
{ "_id" : 1, "p_name" : "virat", "info" : { "postion" : "batsman", "country" : "india", "age" : 32 }, "price" : "18cr" }
{ "_id" : 2, "p_name" : "rohit", "info" : { "postion" : "batsman", "country" : "india", "age" : 33 }, "price" : "18cr" }
{ "_id" : 3, "p_name" : "dhoni", "info" : { "postion" : "WK-batsman", "country" : "india", "age" : 39 }, "price" : "10cr" }
> db.players.find({ $where: function() {return ((this.info.country) == "india")} }).skip(2).limit(3);
{ "_id" : 3, "p_name" : "dhoni", "info" : { "postion" : "WK-batsman", "country" : "india", "age" : 39 }, "price" : "10cr" }
{ "_id" : 4, "p_name" : "kl rahul", "info" : { "postion" : "WK-batsman", "country" : "india", "age" : 28 }, "price" : "14cr" }
{ "_id" : 8, "p_name" : "bumrah", "info" : { "postion" : "bowler", "country" : "india", "age" : 26 }, "price" : "15cr" }
> □
```

```

> db.players.find({ $where: function() {return ((this.info.country) == "india")} });
{ "_id" : 1, "p_name" : "virat", "info" : { "postion" : "batsman", "country" : "india", "age" : 32 }, "price" : "18cr" }
{ "_id" : 2, "p_name" : "rohit", "info" : { "postion" : "batsman", "country" : "india", "age" : 33 }, "price" : "18cr" }
{ "_id" : 3, "p_name" : "dhoni", "info" : { "postion" : "WK-batsman", "country" : "india", "age" : 39 }, "price" : "10cr" }
{ "_id" : 4, "p_name" : "kl rahul", "info" : { "postion" : "WK-batsman", "country" : "india", "age" : 28 }, "price" : "14cr" }
{ "_id" : 8, "p_name" : "bumrah", "info" : { "postion" : "bowler", "country" : "india", "age" : 26 }, "price" : "15cr" }
> db.players.find({ $where: function() {return ((this.info.country) == "india")} }).limit(3);
{ "_id" : 1, "p_name" : "virat", "info" : { "postion" : "batsman", "country" : "india", "age" : 32 }, "price" : "18cr" }
{ "_id" : 2, "p_name" : "rohit", "info" : { "postion" : "batsman", "country" : "india", "age" : 33 }, "price" : "18cr" }
{ "_id" : 3, "p_name" : "dhoni", "info" : { "postion" : "WK-batsman", "country" : "india", "age" : 39 }, "price" : "10cr" }
> db.players.find({ $where: function() {return ((this.info.country) == "india")} }).skip(2).limit(3);
{ "_id" : 3, "p_name" : "dhoni", "info" : { "postion" : "WK-batsman", "country" : "india", "age" : 39 }, "price" : "10cr" }
{ "_id" : 4, "p_name" : "kl rahul", "info" : { "postion" : "WK-batsman", "country" : "india", "age" : 28 }, "price" : "14cr" }
{ "_id" : 8, "p_name" : "bumrah", "info" : { "postion" : "bowler", "country" : "india", "age" : 26 }, "price" : "15cr" }
>

```

```

> db.auction.find().sort({total:1})
{ "_id" : 6, "p_id" : 6, "t_name" : "kings xi punjab", "bought" : [ { "p_name" : "gayle", "price" : 5 }, ], "total" : 5 }
{ "_id" : 3, "p_id" : 3, "t_name" : "chennai super kings", "bought" : [ { "p_name" : "dhoni", "price" : 10 }, ], "total" : 10 }
{ "_id" : 7, "p_id" : 7, "t_name" : "chennai super kings", "bought" : [ { "p_name" : "stokes", "price" : 12 }, ], "total" : 12 }
{ "_id" : 4, "p_id" : 4, "t_name" : "sunrisers hyderabad", "bought" : [ { "p_name" : "rashid", "price" : 15 }, ], "total" : 15 }
{ "_id" : 2, "p_id" : 2, "t_name" : "kings xi punjab", "bought" : [ { "p_name" : "kl rahul", "price" : 17 }, { "p_name" : "pooran", "price" : 9 }, ], "total" : 26 }
{ "_id" : 1, "p_id" : 1, "t_name" : "mumbai indians", "bought" : [ { "p_name" : "rohit", "price" : 19 }, { "p_name" : "bumrah", "price" : 16 }, ], "total" : 35 }
{ "_id" : 5, "p_id" : 5, "t_name" : "delhi capitals", "bought" : [ { "p_name" : "kohli", "price" : 20 }, { "p_name" : "rabada", "price" : 15 }, ], "total" : 35 }
> db.auction.find().sort({total:-1})
{ "_id" : 1, "p_id" : 1, "t_name" : "mumbai indians", "bought" : [ { "p_name" : "rohit", "price" : 19 }, { "p_name" : "bumrah", "price" : 16 }, ], "total" : 35 }
{ "_id" : 5, "p_id" : 5, "t_name" : "delhi capitals", "bought" : [ { "p_name" : "kohli", "price" : 20 }, { "p_name" : "rabada", "price" : 15 }, ], "total" : 35 }
{ "_id" : 2, "p_id" : 2, "t_name" : "kings xi punjab", "bought" : [ { "p_name" : "kl rahul", "price" : 17 }, { "p_name" : "pooran", "price" : 9 }, ], "total" : 26 }
{ "_id" : 4, "p_id" : 4, "t_name" : "sunrisers hyderabad", "bought" : [ { "p_name" : "rashid", "price" : 15 }, ], "total" : 15 }
{ "_id" : 7, "p_id" : 7, "t_name" : "chennai super kings", "bought" : [ { "p_name" : "stokes", "price" : 12 }, ], "total" : 12 }
{ "_id" : 3, "p_id" : 3, "t_name" : "chennai super kings", "bought" : [ { "p_name" : "dhoni", "price" : 10 }, ], "total" : 10 }
{ "_id" : 6, "p_id" : 6, "t_name" : "kings xi punjab", "bought" : [ { "p_name" : "gayle", "price" : 5 }, ], "total" : 5 }
>

```

```

> db.players.find()
{ "_id" : 1, "p_name" : "virat", "info" : { "postion" : "batsman", "country" : "india", "age" : 32 }, "price" : "18cr" }
{ "_id" : 2, "p_name" : "rohit", "info" : { "postion" : "batsman", "country" : "india", "age" : 33 }, "price" : "18cr" }
{ "_id" : 3, "p_name" : "dhoni", "info" : { "postion" : "WK-batsman", "country" : "india", "age" : 39 }, "price" : "10cr" }
{ "_id" : 4, "p_name" : "kl rahul", "info" : { "postion" : "WK-batsman", "country" : "india", "age" : 28 }, "price" : "14cr" }
{ "_id" : 5, "p_name" : "stokes", "info" : { "postion" : "all-rounder", "country" : "england", "age" : 29 }, "price" : "12cr" }
{ "_id" : 6, "p_name" : "rabada", "info" : { "postion" : "bowler", "country" : "south africa", "age" : 25 }, "price" : "15cr" }
{ "_id" : 7, "p_name" : "rashid", "info" : { "postion" : "bowler", "country" : "afghanistan", "age" : 22 }, "price" : "15cr" }
{ "_id" : 8, "p_name" : "bumrah", "info" : { "postion" : "bowler", "country" : "india", "age" : 26 }, "price" : "15cr" }
{ "_id" : 9, "p_name" : "gayle", "info" : { "postion" : "batsman", "country" : "west indies", "age" : 41 }, "price" : "5cr" }
{ "_id" : 10, "p_name" : "pooran", "info" : { "postion" : "WK-batsman", "country" : "west indies", "age" : 25 }, "price" : "9cr" }
> var summary=db.players.find().toArray(); if(summary.length>0){printjson(summary[3]);}
{
  "_id" : 4,
  "p_name" : "kl rahul",
  "info" : {
    "postion" : "WK-batsman",
    "country" : "india",
    "age" : 28
  },
  "price" : "14cr"
}
>

```