

MongoDB Queries

1. Find all the information about each products

```
db.product.find().pretty()
```

```
> db.product.find().pretty()
{
  "_id" : ObjectId("664383006a933d4e3d19da2f"),
  "id" : "1",
  "product_name" : "Intelligent Fresh Chips",
  "product_price" : 655,
  "product_material" : "Concrete",
  "product_color" : "mint green",
}
{
  "_id" : ObjectId("664383006a933d4e3d19da30"),
  "id" : "2",
  "product_name" : "Practical Fresh Sausages",
  "product_price" : 911,
  "product_material" : "Cotton",
  "product_color" : "indigo",
}
{
  "_id" : ObjectId("664383006a933d4e3d19da31"),
  "id" : "3",
  "product_name" : "Refined Steel Car",
  "product_price" : 690,
  "product_material" : "Rubber",
  "product_color" : "gold",
}
{
  "_id" : ObjectId("664383006a933d4e3d19da32"),
  "id" : "4",
  "product_name" : "Gorgeous Plastic Pants",
  "product_price" : 492,
  "product_material" : "Soft",
  "product_color" : "plum",
}
```

2. Find the product price which are between 400 to 800

```
db.product.find({ product_price: { $gt:400, $lt:800 } }).pretty()
```

```
Type "it" for more
> db.product.find({ product_price: { $gt:400, $lt:800 } }).pretty()
{
  "_id" : ObjectId("664383006a933d4e3d19da2f"),
  "id" : "1",
  "product_name" : "Intelligent Fresh Chips",
  "product_price" : 655,
  "product_material" : "Concrete",
  "product_color" : "mint green",
}
{
  "_id" : ObjectId("664383006a933d4e3d19da31"),
  "id" : "3",
  "product_name" : "Refined Steel Car",
  "product_price" : 690,
  "product_material" : "Rubber",
  "product_color" : "gold",
}
{
  "_id" : ObjectId("664383006a933d4e3d19da32"),
  "id" : "4",
  "product_name" : "Gorgeous Plastic Pants",
  "product_price" : 492,
  "product_material" : "Soft",
  "product_color" : "plum",
}
{
  "_id" : ObjectId("664383006a933d4e3d19da34"),
  "id" : "6",
  "product_name" : "Awesome Wooden Towels",
  "product_price" : 474,
  "product_material" : "Plastic",
  "product_color" : "orange",
}
```

3. Find the product price which are not between 400 to 600

```
db.product.find({ product_price: { $not: { $gt:400, $lt:600 } } }).pretty()
```

```
> db.product.find({ product_price: { $not: { $gt:400, $lt:600 } } }).pretty()
{
  "_id" : ObjectId("664383006a933d4e3d19da2f"),
  "id" : "1",
  "product_name" : "Intelligent Fresh Chips",
  "product_price" : 655,
  "product_material" : "Concrete",
  "product_color" : "mint green"
}
{
  "_id" : ObjectId("664383006a933d4e3d19da30"),
  "id" : "2",
  "product_name" : "Practical Fresh Sausages",
  "product_price" : 911,
  "product_material" : "Cotton",
  "product_color" : "indigo"
}
{
  "_id" : ObjectId("664383006a933d4e3d19da31"),
  "id" : "3",
  "product_name" : "Refined Steel Car",
  "product_price" : 690,
  "product_material" : "Rubber",
  "product_color" : "gold"
}
{
  "_id" : ObjectId("664383006a933d4e3d19da33"),
  "id" : "5",
  "product_name" : "Sleek Cotton Chair",
  "product_price" : 33,
  "product_material" : "Fresh",
  "product_color" : "black"
}
{
  "_id" : ObjectId("664383006a933d4e3d19da36"),
  "id" : "6",
  "product_name" : "Incredible Steel Hat",
  "product_price" : 78,
  "product_material" : "Rubber",
  "product_color" : "violet"
```

4. List the four product which are greater than 500 in price

```
db.product.aggregate([ { $match: { product_price: { $gt:500 } } }, { $limit:4 } ]).pretty()
```

```
> db.product.aggregate([ { $match: { product_price: { $gt:500 } } }, { $limit:4 } ]).pretty()
{
  "_id" : ObjectId("664383006a933d4e3d19da2f"),
  "id" : "1",
  "product_name" : "Intelligent Fresh Chips",
  "product_price" : 655,
  "product_material" : "Concrete",
  "product_color" : "mint green"
}
{
  "_id" : ObjectId("664383006a933d4e3d19da30"),
  "id" : "2",
  "product_name" : "Practical Fresh Sausages",
  "product_price" : 911,
  "product_material" : "Cotton",
  "product_color" : "indigo"
}
{
  "_id" : ObjectId("664383006a933d4e3d19da31"),
  "id" : "3",
  "product_name" : "Refined Steel Car",
  "product_price" : 690,
  "product_material" : "Rubber",
  "product_color" : "gold"
}
>
```

5. Find the product name and product material of each products

```
db.product.find({}, { product_name: true, product_material: true }).pretty()
```

```
> db.product.find({}, { product_name: true, product_material: true }).pretty()
{
  "_id" : ObjectId("664383006a933d4e3d19da2f"),
  "product_name" : "Intelligent Fresh Chips",
  "product_material" : "Concrete"
}
{
  "_id" : ObjectId("664383006a933d4e3d19da30"),
  "product_name" : "Practical Fresh Sausages",
  "product_material" : "Cotton"
}
{
  "_id" : ObjectId("664383006a933d4e3d19da31"),
  "product_name" : "Refined Steel Car",
  "product_material" : "Rubber"
}
{
  "_id" : ObjectId("664383006a933d4e3d19da32"),
  "product_name" : "Gorgeous Plastic Pants",
  "product_material" : "Soft"
}
{
  "_id" : ObjectId("664383006a933d4e3d19da33"),
  "product_name" : "Sleek Cotton Chair",
  "product_material" : "Fresh"
}
{
  "_id" : ObjectId("664383006a933d4e3d19da34"),
  "product_name" : "Awesome Wooden Towels",
  "product_material" : "Plastic"
}
{
  "_id" : ObjectId("664383006a933d4e3d19da35"),
  "product_name" : "Practical Soft Shoes",
  "product_material" : "Rubber"
}
{
  "_id" : ObjectId("664383006a933d4e3d19da36"),
  "product_name" : "Incredible Steel Hat",
```

6. Find the product with a row id of 10

```
db.product.find({id: "10"}).pretty()
```

```
> db.product.find({id: "10"}).pretty()
{
  "_id" : ObjectId("664383006a933d4e3d19da38"),
  "id" : "10",
  "product_name" : "Generic Wooden Pizza",
  "product_price" : 84,
  "product_material" : "Frozen",
  "product_color" : "indigo"
}
>
```

7. Find only the product name and product material

```
db.product.find({}, {_id: false, product_name: true, product_material: true}).pretty()
```

```
> db.product.find({}, {_id: false, product_name: true, product_material: true})
{ "product_name": "Intelligent Fresh Chips", "product_material": "Concrete" }
{ "product_name": "Practical Fresh Sausages", "product_material": "Cotton" }
{ "product_name": "Refined Steel Car", "product_material": "Rubber" }
{ "product_name": "Gorgeous Plastic Pants", "product_material": "Soft" }
{ "product_name": "Sleek Cotton Chair", "product_material": "Fresh" }
{ "product_name": "Awesome Wooden Towels", "product_material": "Plastic" }
{ "product_name": "Practical Soft Shoes", "product_material": "Rubber" }
{ "product_name": "Incredible Steel Hat", "product_material": "Rubber" }
{ "product_name": "Awesome Wooden Ball", "product_material": "Soft" }
{ "product_name": "Generic Wooden Pizza", "product_material": "Frozen" }
{ "product_name": "Unbranded Wooden Cheese", "product_material": "Soft" }
{ "product_name": "Unbranded Plastic Salad", "product_material": "Wooden" }
{ "product_name": "Gorgeous Cotton Keyboard", "product_material": "Concrete" }
{ "product_name": "Incredible Steel Shirt", "product_material": "Metal" }
{ "product_name": "Ergonomic Cotton Hat", "product_material": "Rubber" }
{ "product_name": "Small Soft Chair", "product_material": "Cotton" }
{ "product_name": "Incredible Metal Car", "product_material": "Fresh" }
{ "product_name": "Licensed Plastic Bacon", "product_material": "Steel" }
{ "product_name": "Intelligent Cotton Chips", "product_material": "Soft" }
{ "product_name": "Handcrafted Wooden Bacon", "product_material": "Concrete" }
Type 'it' for more
> |
```

8. Find all products which contain the value of soft in product material

```
db.product.find({product_material: "Soft"}).pretty()
```

```
> db.product.find({product_material: "Soft"}).pretty()
{
  "_id" : ObjectId("664383006a933d4e3d19da32"),
  "id" : "4",
  "product_name" : "Gorgeous Plastic Pants",
  "product_price" : 492,
  "product_material" : "Soft",
  "product_color" : "plum"
}
{
  "_id" : ObjectId("664383006a933d4e3d19da37"),
  "id" : "9",
  "product_name" : "Awesome Wooden Ball",
  "product_price" : 28,
  "product_material" : "Soft",
  "product_color" : "azure"
}
{
  "_id" : ObjectId("664383006a933d4e3d19da39"),
  "id" : "11",
  "product_name" : "Unbranded Wooden Cheese",
  "product_price" : 26,
  "product_material" : "Soft",
  "product_color" : "black"
}
{
  "_id" : ObjectId("664383006a933d4e3d19da41"),
  "id" : "19",
  "product_name" : "Intelligent Cotton Chips",
  "product_price" : 46,
  "product_material" : "Soft",
  "product_color" : "azure"
}
> |
```

9. Find products which contain product color indigo and product price 492.00

```
db.product.find({$or:[{"product_color":"indigo"}, {"product_price":492}]}).pretty()
```

```
> db.product.find({ $or:[{ "product_color": "indigo"}, { "product_price": 492}]}).pretty()
{
  "_id" : ObjectId("664383006a933d4e3d19da30"),
  "id" : "2",
  "product_name" : "Practical Fresh Sausages",
  "product_price" : 911,
  "product_material" : "cotton",
  "product_color" : "indigo"
}
{
  "_id" : ObjectId("664383006a933d4e3d19da32"),
  "id" : "4",
  "product_name" : "Gorgeous Plastic Pants",
  "product_price" : 492,
  "product_material" : "Soft",
  "product_color" : "plum"
}
{
  "_id" : ObjectId("664383006a933d4e3d19da38"),
  "id" : "10",
  "product_name" : "Generic Wooden Pizza",
  "product_price" : 84,
  "product_material" : "Frozen",
  "product_color" : "indigo"
}
{
  "_id" : ObjectId("664383006a933d4e3d19da3f"),
  "id" : "17",
  "product_name" : "Incredible Metal Car",
  "product_price" : 36,
  "product_material" : "Fresh",
  "product_color" : "indigo"
}
{
  "_id" : ObjectId("664383006a933d4e3d19da47"),
  "id" : "25",
  "product_name" : "Licensed Steel Car",
  "product_price" : 28,
  "product_material" : "Cotton",
  "product_color" : "indigo"
}
```

10. Delete the products which product price value are 28

```
db.product.find({product_price: 28})
```

```
Type "it" for more
> db.product.deleteMany({product_price: 28})
{ "acknowledged" : true, "deletedCount" : 1 }
>
```