

MONGODB TASK 1

NAME: SAKTHIVEL.S
BATCH: FSD57WD3-T

For the following question write the corresponding MongoDB queries

QUESTIONS WITH ANSWERS

- 1) Find all the information about each products

`db.products.find();`

```
>_MONGOSH
}
> db.products.find();
< {
  _id: ObjectId('65e0a83aa16a127e9aa28847'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('65e0a83aa16a127e9aa28848'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('65e0a83aa16a127e9aa28849'),
  id: '3',
  product_name: 'Refined Steel Car',
```

So on.....

- 2) Find the product price which are between 400 to 800

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

```

>_MONGOSH
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('65e0a83aa16a127e9aa2884c'),
  id: '6',
  product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
}
{
  _id: ObjectId('65e0a83aa16a127e9aa2884d'),
  id: '7',
  product_name: 'Practical Soft Shoes',
  product_price: 500,
  product_material: 'Rubber',
  product_color: 'pink'
}
test>|

```

etc.....

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

```
db.products.find({product_price:{$not:{$gte:400, $lte:600}}});
```

```

>_MONGOSH
  product_material: 'Concrete',
  product_color: 'lime'
}
{
  _id: ObjectId('65e0a83aa16a127e9aa2885b'),
  id: '21',
  product_name: 'Unbranded Granite Chicken',
  product_price: 90,
  product_material: 'Metal',
  product_color: 'gold'
}
{
  _id: ObjectId('65e0a83aa16a127e9aa2885c'),
  id: '22',
  product_name: 'Ergonomic Soft Hat',
  product_price: 99,
  product_material: 'Rubber',
  product_color: 'black'
}
{
  _id: ObjectId('65e0a83aa16a127e9aa2885d'),

```

Etc.....

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

```
db.products.find({product_price:{$gte:500}}).limit(4)
```

```
> db.products.find({product_price:{$gt:500}}).limit(4);
< {
  _id: ObjectId('65e0a83aa16a127e9aa28847'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('65e0a83aa16a127e9aa28848'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('65e0a83aa16a127e9aa28849'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 655
}
```

etc.....

- 5) Find the product name and product material of each products

`db.products.find({}, {_id:0, product_name: 1, product_material:1});`

```
> db.products.find({}, {_id:0, product_name: 1, product_material:1});
< {
  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'
}
```

Etc.....

- 6) Find the product with a row id of 10

`db.products.find(id:"10");`

```

MONGODB
    product_material: 'Soft'
  }
  {
    product_name: 'Handcrafted Wooden Bacon',
    product_material: 'Concrete'
  }
Type "it" for more
> db.products.find({id:10});
<
> db.products.find({_id:10});
<
> db.products.find({_id:"10"});
<
> db.products.find({id:"10"});
< {
  _id: ObjectId('65e0a83aa16a127e9aa28850'),
  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.products.find({}, {_id:0, product_name: 1, product_material:1});
< {
  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'
}
}

```

Etc.....

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

`db.products.find({product_material: 'Soft'})`

```

>_MONGOSH
  product_name: 'Awesome Wooden Ball',
  product_price: 28,
  product_material: 'Soft',
  product_color: 'azure'
}
{
  _id: ObjectId('65e0a83aa16a127e9aa28851'),
  id: '11',
  product_name: 'Unbranded Wooden Cheese',
  product_price: 26,
  product_material: 'Soft',
  product_color: 'black'
}
{
  _id: ObjectId('65e0a83aa16a127e9aa28859'),
  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.products.find({$or:[{product_color:'indigo'},{product_price: 492}]});`

```

>_MONGOSH
  product_color: 'indigo'
}
{
  _id: ObjectId('65e0a83aa16a127e9aa2884a'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
{
  _id: ObjectId('65e0a83aa16a127e9aa28850'),
  id: '10',
  product_name: 'Generic Wooden Pizza',
  product_price: 84,
  product_material: 'Frozen',
  product_color: 'indigo'
}
{
  _id: ObjectId('65e0a83aa16a127e9aa28857'),
  id: '17',
  product_name: 'Incredible Metal Car',
  product_price: 36
}
}

```

Etc.....

10) Delete the products which product price value are same

`db.products.aggregate([{$group:{_id:'$product_price',count:{$sum:1}}},{ $match:{count:{$gt:1}}})
.forEach((e)=>{db.products.deleteMany({product_price:e._id});})`

```
  _id: ObjectId('65e0a83aa16a127e9aa28847'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('65e0a83aa16a127e9aa28848'),
  id: '2',
  product_name: 'Practical Fresh Sausages',
  product_price: 911,
  product_material: 'Cotton',
  product_color: 'indigo'
}
{
  _id: ObjectId('65e0a83aa16a127e9aa28849'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
},
```