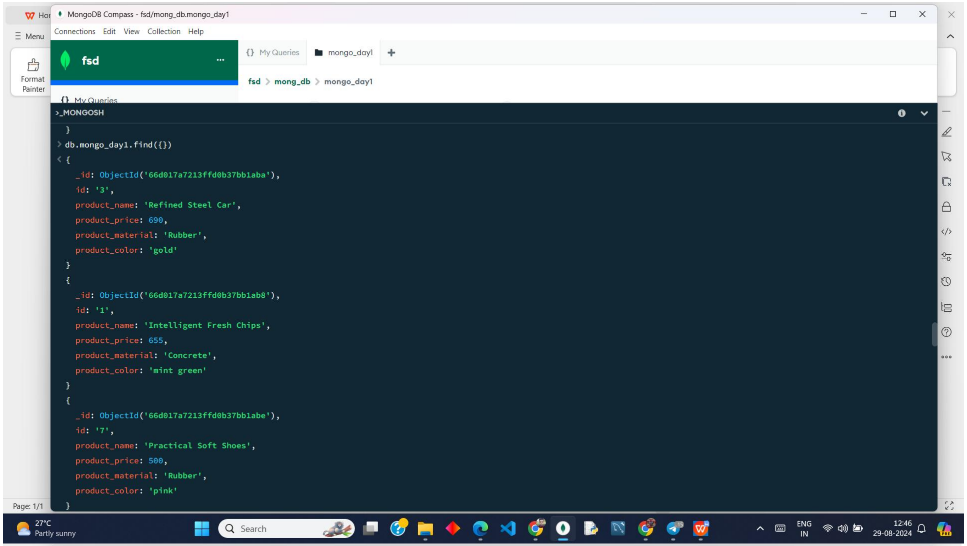
MONGO DB TASK DAY 1

Product JSON:

https://github.com/rvsp/database/blob/master/mongodb/product.json

For the following question below are the corresponding MongoDB queries

1. Find all the information about each products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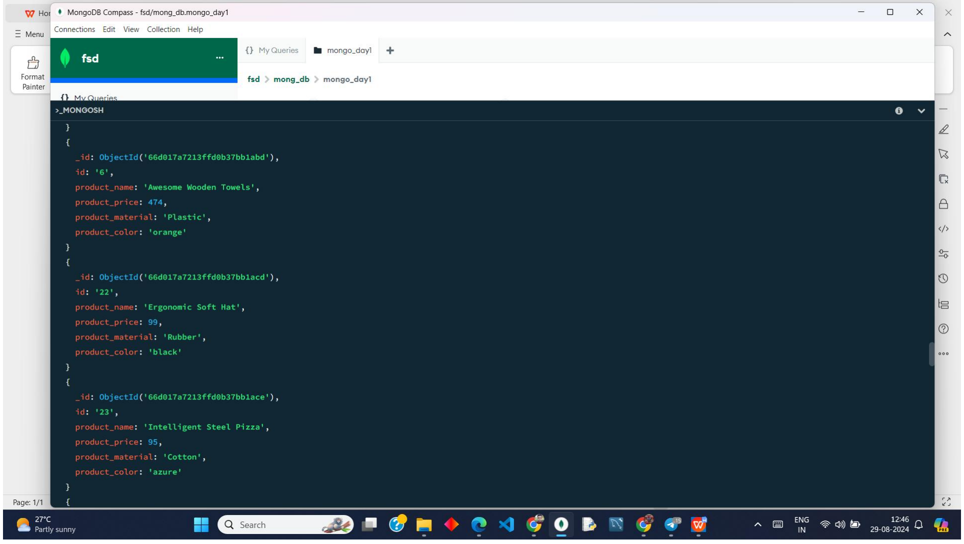
```
  }
> db.mongo_day1.find({})
< {
    _id: ObjectId('66d017a7213ffd0b37bb1aba'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ab8'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1abe'),
    id: '7',
    product_name: 'Practical Soft Shoes',
    product_price: 500,
    product_material: 'Rubber',
    product_color: 'pink'
  }
```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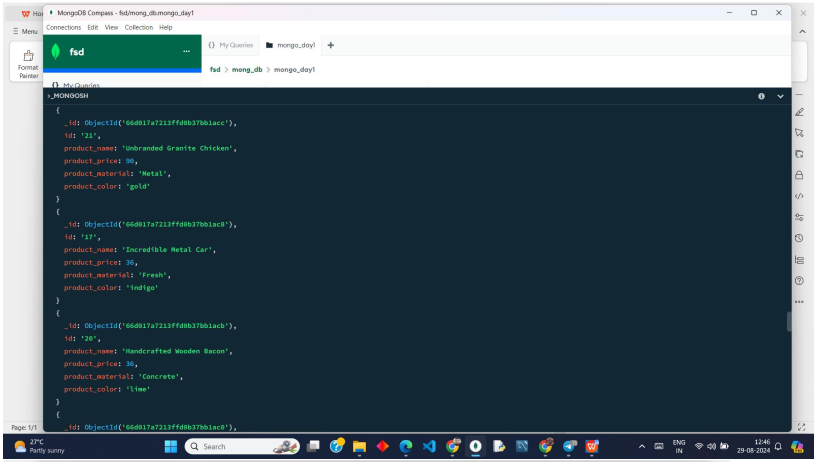
```
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1abd'),
    id: '6',
    product_name: 'Awesome Wooden Towels',
    product_price: 474,
    product_material: 'Plastic',
    product_color: 'orange'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1acd'),
    id: '22',
    product_name: 'Ergonomic Soft Hat',
    product_price: 99,
    product_material: 'Rubber',
    product_color: 'black'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ace'),
    id: '23',
    product_name: 'Intelligent Steel Pizza',
    product_price: 95,
    product_material: 'Cotton',
    product_color: 'azure'
  }
  {
```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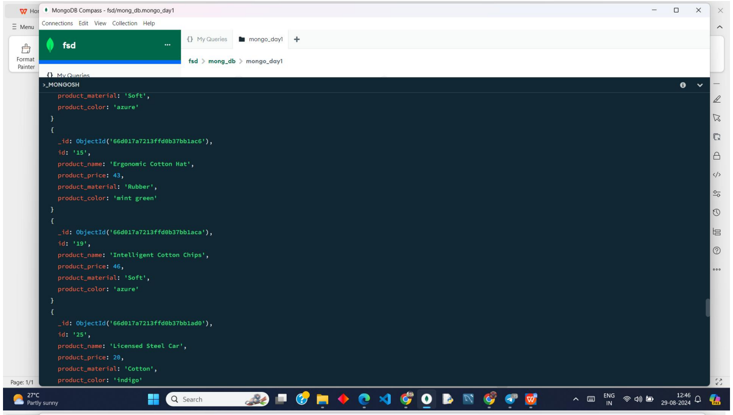
```
{
  _id: ObjectId('66d017a7213ffd0b37bb1acc'),
  id: '21',
  product_name: 'Unbranded Granite Chicken',
  product_price: 90,
  product_material: 'Metal',
  product_color: 'gold'
}
{
  _id: ObjectId('66d017a7213ffd0b37bb1ac8'),
  id: '17',
  product_name: 'Incredible Metal Car',
  product_price: 36,
  product_material: 'Fresh',
  product_color: 'indigo'
}
{
  _id: ObjectId('66d017a7213ffd0b37bb1acb'),
  id: '20',
  product_name: 'Handcrafted Wooden Bacon',
  product_price: 36,
  product_material: 'Concrete',
  product_color: 'lime'
}
{
  _id: ObjectId('66d017a7213ffd0b37bb1ac0'),
```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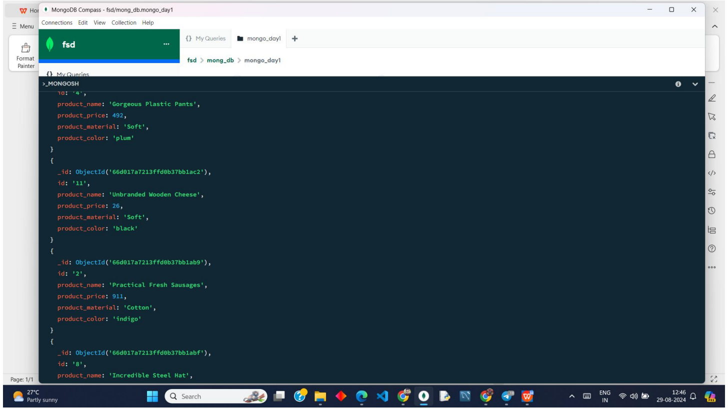
```
    product_material: 'Soft',
    product_color: 'azure'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ac6'),
    id: '15',
    product_name: 'Ergonomic Cotton Hat',
    product_price: 43,
    product_material: 'Rubber',
    product_color: 'mint green'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1aca'),
    id: '19',
    product_name: 'Intelligent Cotton Chips',
    product_price: 46,
    product_material: 'Soft',
    product_color: 'azure'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ad0'),
    id: '25',
    product_name: 'Licensed Steel Car',
    product_price: 20,
    product_material: 'Cotton',
    product_color: 'indigo'
```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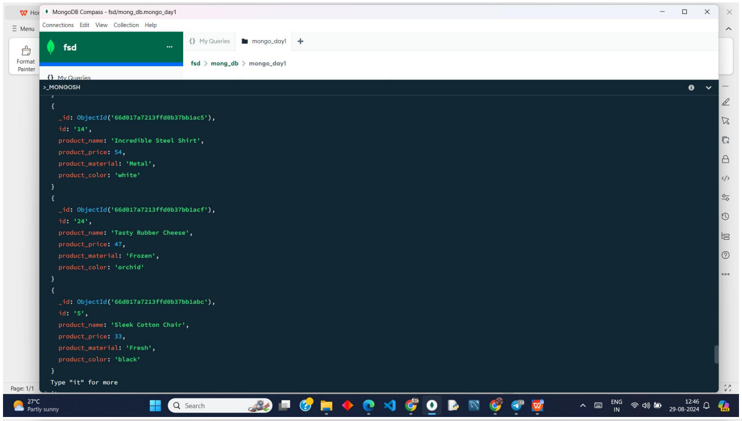
```
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ac2'),
    id: '11',
    product_name: 'Unbranded Wooden Cheese',
    product_price: 26,
    product_material: 'Soft',
    product_color: 'black'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ab9'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1abf'),
    id: '8',
    product_name: 'Incredible Steel Hat',
```



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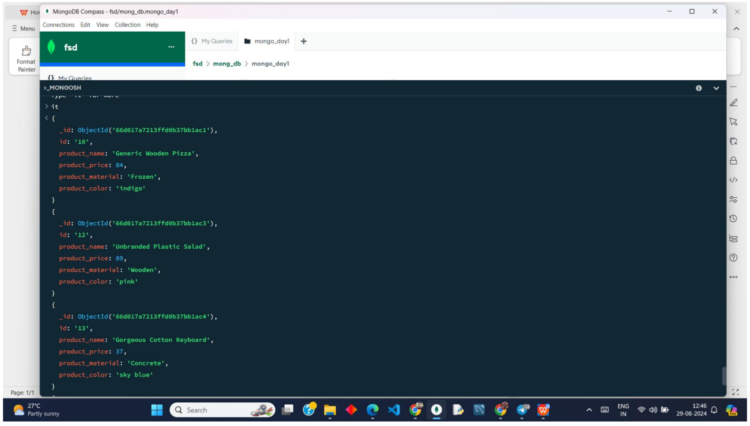
```
{
  _id: ObjectId('66d017a7213ffd0b37bb1ac5'),
  id: '14',
  product_name: 'Incredible Steel Shirt',
  product_price: 54,
  product_material: 'Metal',
  product_color: 'white'
}
{
  _id: ObjectId('66d017a7213ffd0b37bb1acf'),
  id: '24',
  product_name: 'Tasty Rubber Cheese',
  product_price: 47,
  product_material: 'Frozen',
  product_color: 'orchid'
}
{
  _id: ObjectId('66d017a7213ffd0b37bb1abc'),
  id: '5',
  product_name: 'Sleek Cotton Chair',
  product_price: 33,
  product_material: 'Fresh',
  product_color: 'black'
}
Type "it" for more
```



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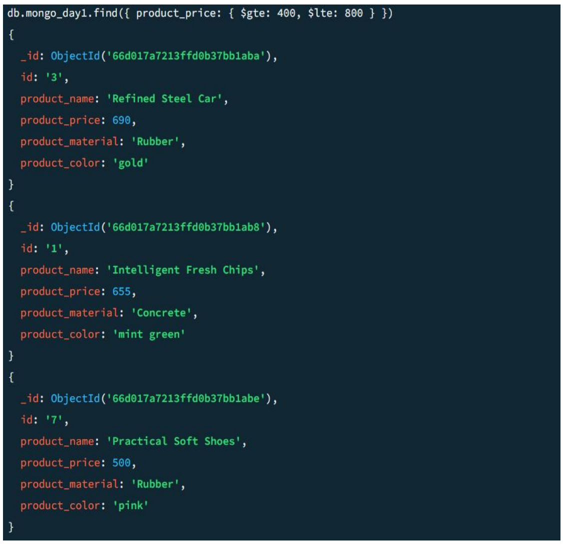
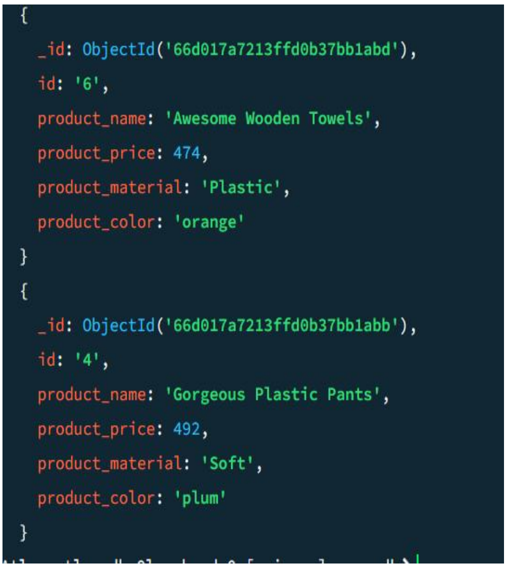
```
> it
< {
  _id: ObjectId('66d017a7213ffd0b37bb1ac1'),
  id: '10',
  product_name: 'Generic Wooden Pizza',
  product_price: 84,
  product_material: 'Frozen',
  product_color: 'indigo'
}
{
  _id: ObjectId('66d017a7213ffd0b37bb1ac3'),
  id: '12',
  product_name: 'Unbranded Plastic Salad',
  product_price: 89,
  product_material: 'Wooden',
  product_color: 'pink'
}
{
  _id: ObjectId('66d017a7213ffd0b37bb1ac4'),
  id: '13',
  product_name: 'Gorgeous Cotton Keyboard',
  product_price: 37,
  product_material: 'Concrete',
  product_color: 'sky blue'
}
```

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

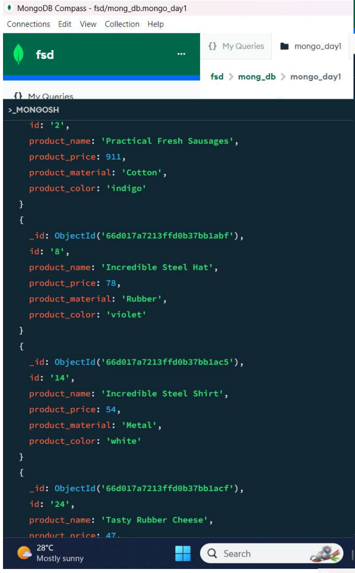


```
db.mongo_day1.find({ product_price: { $gte: 400, $lte: 800 } })
{
  _id: ObjectId('66d017a7213ffd0b37bb1aba'),
  id: '3',
  product_name: 'Refined Steel Car',
  product_price: 690,
  product_material: 'Rubber',
  product_color: 'gold'
}
{
  _id: ObjectId('66d017a7213ffd0b37bb1ab8'),
  id: '1',
  product_name: 'Intelligent Fresh Chips',
  product_price: 655,
  product_material: 'Concrete',
  product_color: 'mint green'
}
{
  _id: ObjectId('66d017a7213ffd0b37bb1abe'),
  id: '7',
  product_name: 'Practical Soft Shoes',
  product_price: 500,
  product_material: 'Rubber',
  product_color: 'pink'
}
```



```
{
  _id: ObjectId('66d017a7213ffd0b37bb1abd'),
  id: '6',
  product_name: 'Awesome Wooden Towels',
  product_price: 474,
  product_material: 'Plastic',
  product_color: 'orange'
}
{
  _id: ObjectId('66d017a7213ffd0b37bb1abb'),
  id: '4',
  product_name: 'Gorgeous Plastic Pants',
  product_price: 492,
  product_material: 'Soft',
  product_color: 'plum'
}
```

3. Find the product price which are not between 400 to 600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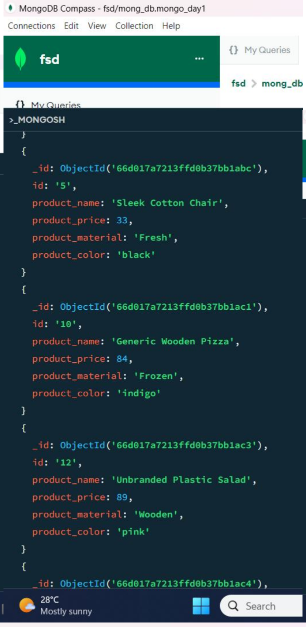
```
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1abf'),
    id: '8',
    product_name: 'Incredible Steel Hat',
    product_price: 78,
    product_material: 'Rubber',
    product_color: 'violet'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ac5'),
    id: '14',
    product_name: 'Incredible Steel Shirt',
    product_price: 54,
    product_material: 'Metal',
    product_color: 'white'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1acf'),
    id: '24',
    product_name: 'Tasty Rubber Cheese',
    product_price: 47,
```


MongoDB Compass - fsd/mong_db.mongo_day1
Connections Edit View Collection Help
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My Queries
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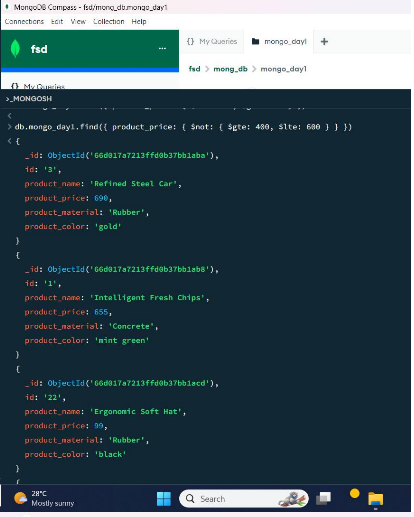
```
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1abc'),
    id: '5',
    product_name: 'Sleek Cotton Chair',
    product_price: 33,
    product_material: 'Fresh',
    product_color: 'black'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ac1'),
    id: '10',
    product_name: 'Generic Wooden Pizza',
    product_price: 84,
    product_material: 'Frozen',
    product_color: 'indigo'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ac3'),
    id: '12',
    product_name: 'Unbranded Plastic Salad',
    product_price: 89,
    product_material: 'Wooden',
    product_color: 'pink'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ac4'),
```


MongoDB Compass - fsd/mong_db.mongo_day1
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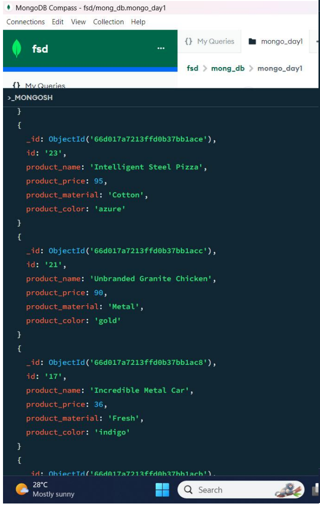
```
<
> db.mongo_day1.find({ product_price: { $not: { $gte: 400, $lte: 600 } } })
< {
    _id: ObjectId('66d017a7213ffd0b37bb1aba'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ab8'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1acd'),
    id: '22',
    product_name: 'Ergonomic Soft Hat',
    product_price: 99,
    product_material: 'Rubber',
    product_color: 'black'
  }
```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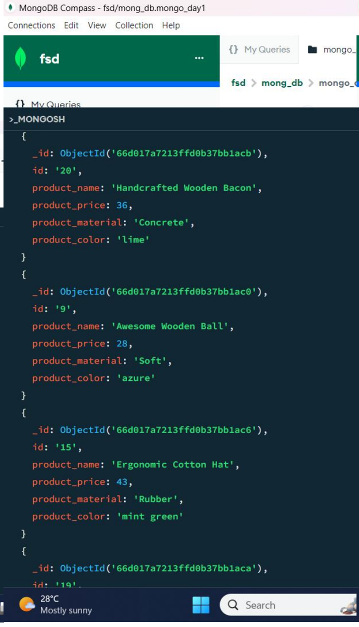
```
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ace'),
    id: '23',
    product_name: 'Intelligent Steel Pizza',
    product_price: 95,
    product_material: 'Cotton',
    product_color: 'azure'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1acc'),
    id: '21',
    product_name: 'Unbranded Granite Chicken',
    product_price: 90,
    product_material: 'Metal',
    product_color: 'gold'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ac8'),
    id: '17',
    product_name: 'Incredible Metal Car',
    product_price: 36,
    product_material: 'Fresh',
    product_color: 'indigo'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1acb'),
```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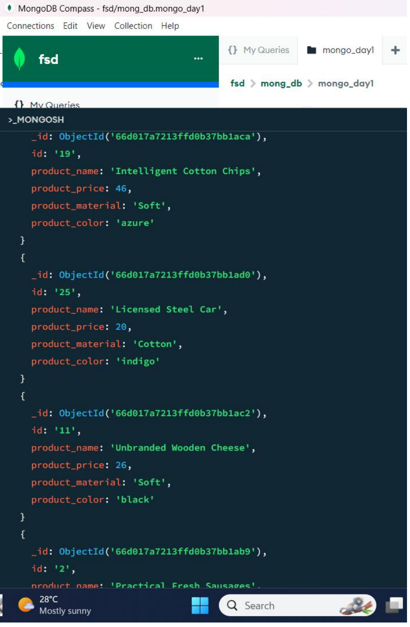
```
  {
    _id: ObjectId('66d017a7213ffd0b37bb1acb'),
    id: '20',
    product_name: 'Handcrafted Wooden Bacon',
    product_price: 36,
    product_material: 'Concrete',
    product_color: 'lime'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ac0'),
    id: '9',
    product_name: 'Awesome Wooden Ball',
    product_price: 28,
    product_material: 'Soft',
    product_color: 'azure'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ac6'),
    id: '15',
    product_name: 'Ergonomic Cotton Hat',
    product_price: 43,
    product_material: 'Rubber',
    product_color: 'mint green'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1aca'),
    id: '19',
```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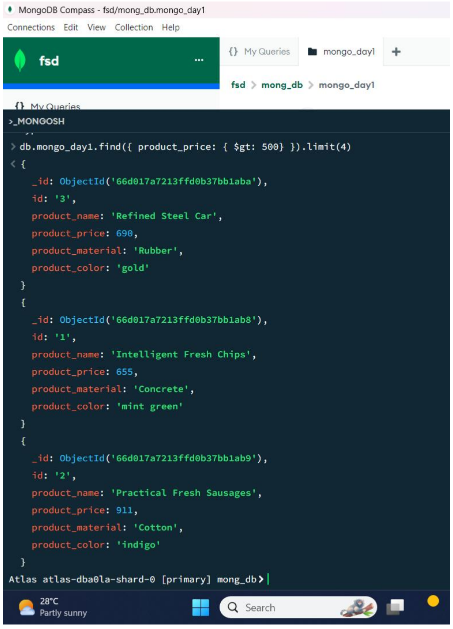
```
    _id: ObjectId('66d017a7213ffd0b37bb1aca'),
    id: '19',
    product_name: 'Intelligent Cotton Chips',
    product_price: 46,
    product_material: 'Soft',
    product_color: 'azure'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ad0'),
    id: '25',
    product_name: 'Licensed Steel Car',
    product_price: 20,
    product_material: 'Cotton',
    product_color: 'indigo'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ac2'),
    id: '11',
    product_name: 'Unbranded Wooden Cheese',
    product_price: 26,
    product_material: 'Soft',
    product_color: 'black'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ab9'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
```

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



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fsd > mong_db > mongo_day1
{} My Queries
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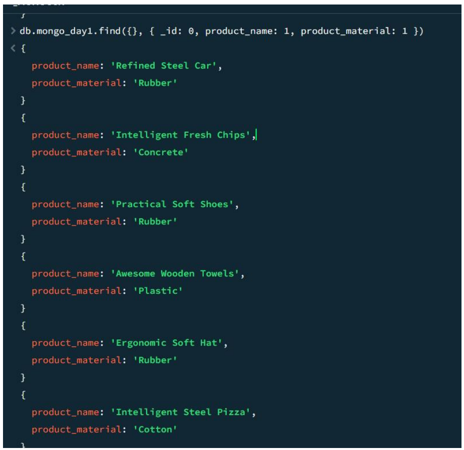
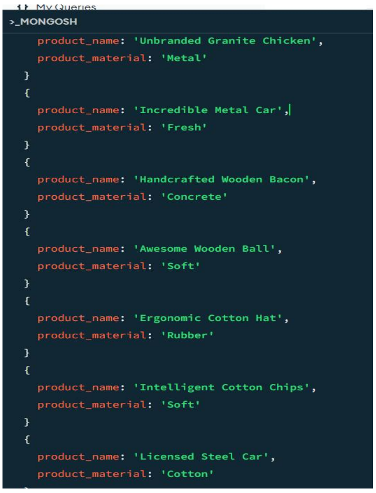
```
> db.mongo_day1.find({ product_price: { $gt: 500} }).limit(4)
< {
    _id: ObjectId('66d017a7213ffd0b37bb1aba'),
    id: '3',
    product_name: 'Refined Steel Car',
    product_price: 690,
    product_material: 'Rubber',
    product_color: 'gold'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ab8'),
    id: '1',
    product_name: 'Intelligent Fresh Chips',
    product_price: 655,
    product_material: 'Concrete',
    product_color: 'mint green'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ab9'),
    id: '2',
    product_name: 'Practical Fresh Sausages',
    product_price: 911,
    product_material: 'Cotton',
    product_color: 'indigo'
  }
Atlas atlas-dba0la-shard-0 [primary] mong_db>
```

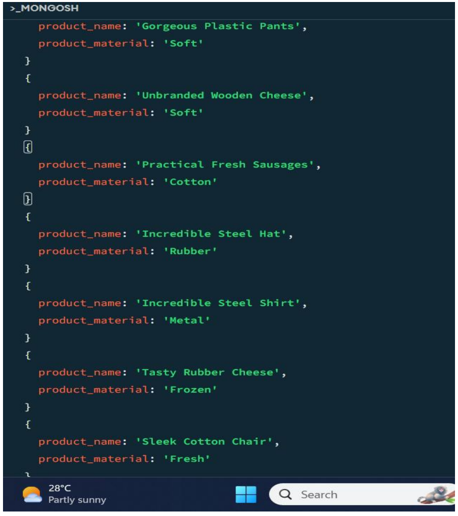
5. Find the product name and product material of each products



```
> db.mongo_day1.find({}, { _id: 0, product_name: 1, product_material: 1 })
< {
    product_name: 'Refined Steel Car',
    product_material: 'Rubber'
  }
  {
    product_name: 'Intelligent Fresh Chips',
    product_material: 'Concrete'
  }
  {
    product_name: 'Practical Soft Shoes',
    product_material: 'Rubber'
  }
  {
    product_name: 'Awesome Wooden Towels',
    product_material: 'Plastic'
  }
  {
    product_name: 'Ergonomic Soft Hat',
    product_material: 'Rubber'
  }
  {
    product_name: 'Intelligent Steel Pizza',
    product_material: 'Cotton'
```

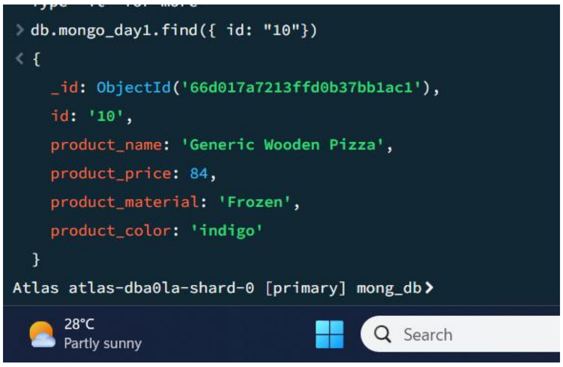


```
    product_name: 'Unbranded Granite Chicken',
    product_material: 'Metal'
  }
  {
    product_name: 'Incredible Metal Car',
    product_material: 'Fresh'
  }
  {
    product_name: 'Handcrafted Wooden Bacon',
    product_material: 'Concrete'
  }
  {
    product_name: 'Awesome Wooden Ball',
    product_material: 'Soft'
  }
  {
    product_name: 'Ergonomic Cotton Hat',
    product_material: 'Rubber'
  }
  {
    product_name: 'Intelligent Cotton Chips',
    product_material: 'Soft'
  }
  {
    product_name: 'Licensed Steel Car',
    product_material: 'Cotton'
```



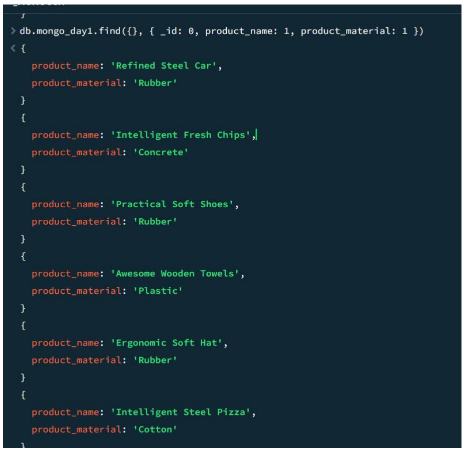
```
    product_name: 'Gorgeous Plastic Pants',
    product_material: 'Soft'
  }
  {
    product_name: 'Unbranded Wooden Cheese',
    product_material: 'Soft'
  }
  {
    product_name: 'Practical Fresh Sausages',
    product_material: 'Cotton'
  }
  {
    product_name: 'Incredible Steel Hat',
    product_material: 'Rubber'
  }
  {
    product_name: 'Incredible Steel Shirt',
    product_material: 'Metal'
  }
  {
    product_name: 'Tasty Rubber Cheese',
    product_material: 'Frozen'
  }
  {
    product_name: 'Sleek Cotton Chair',
    product_material: 'Fresh'
```

6. Find the product with a row id of 10

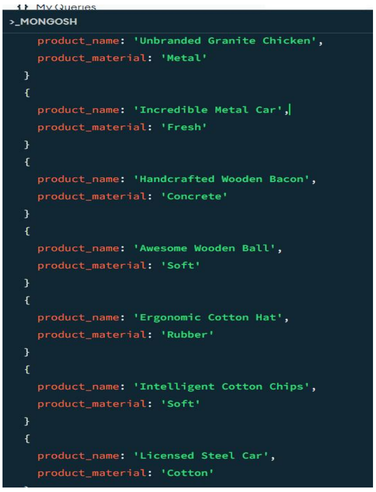


```
Type "it" for more
> db.mongo_day1.find({ id: "10"})
< {
    _id: ObjectId('66d017a7213ffd0b37bb1ac1'),
    id: '10',
    product_name: 'Generic Wooden Pizza',
    product_price: 84,
    product_material: 'Frozen',
    product_color: 'indigo'
  }
Atlas atlas-dba0la-shard-0 [primary] mong_db>
```

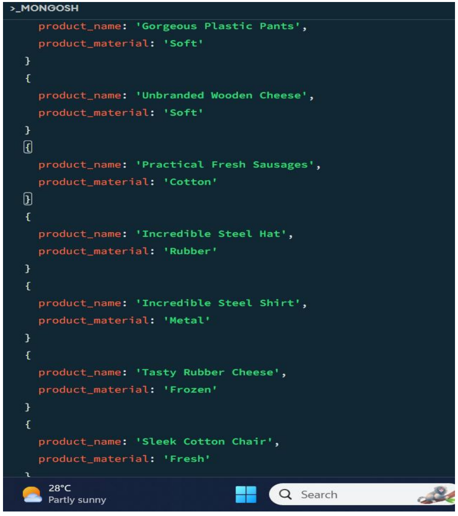
7. Find only the product name and product material



```
> db.mongo_day1.find({}, { _id: 0, product_name: 1, product_material: 1 })
< {
    product_name: 'Refined Steel Car',
    product_material: 'Rubber'
  }
  {
    product_name: 'Intelligent Fresh Chips',
    product_material: 'Concrete'
  }
  {
    product_name: 'Practical Soft Shoes',
    product_material: 'Rubber'
  }
  {
    product_name: 'Awesome Wooden Towels',
    product_material: 'Plastic'
  }
  {
    product_name: 'Ergonomic Soft Hat',
    product_material: 'Rubber'
  }
  {
    product_name: 'Intelligent Steel Pizza',
    product_material: 'Cotton'
```

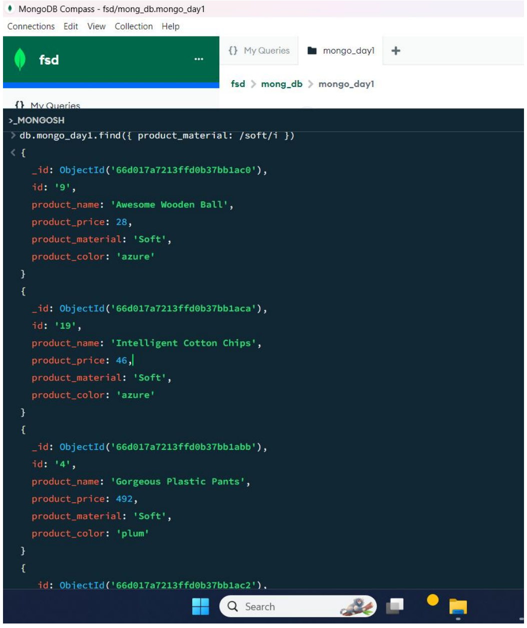


```
    product_name: 'Unbranded Granite Chicken',
    product_material: 'Metal'
  }
  {
    product_name: 'Incredible Metal Car',
    product_material: 'Fresh'
  }
  {
    product_name: 'Handcrafted Wooden Bacon',
    product_material: 'Concrete'
  }
  {
    product_name: 'Awesome Wooden Ball',
    product_material: 'Soft'
  }
  {
    product_name: 'Ergonomic Cotton Hat',
    product_material: 'Rubber'
  }
  {
    product_name: 'Intelligent Cotton Chips',
    product_material: 'Soft'
  }
  {
    product_name: 'Licensed Steel Car',
    product_material: 'Cotton'
```



```
    product_name: 'Gorgeous Plastic Pants',
    product_material: 'Soft'
  }
  {
    product_name: 'Unbranded Wooden Cheese',
    product_material: 'Soft'
  }
  {
    product_name: 'Practical Fresh Sausages',
    product_material: 'Cotton'
  }
  {
    product_name: 'Incredible Steel Hat',
    product_material: 'Rubber'
  }
  {
    product_name: 'Incredible Steel Shirt',
    product_material: 'Metal'
  }
  {
    product_name: 'Tasty Rubber Cheese',
    product_material: 'Frozen'
  }
  {
    product_name: 'Sleek Cotton Chair',
    product_material: 'Fresh'
```

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

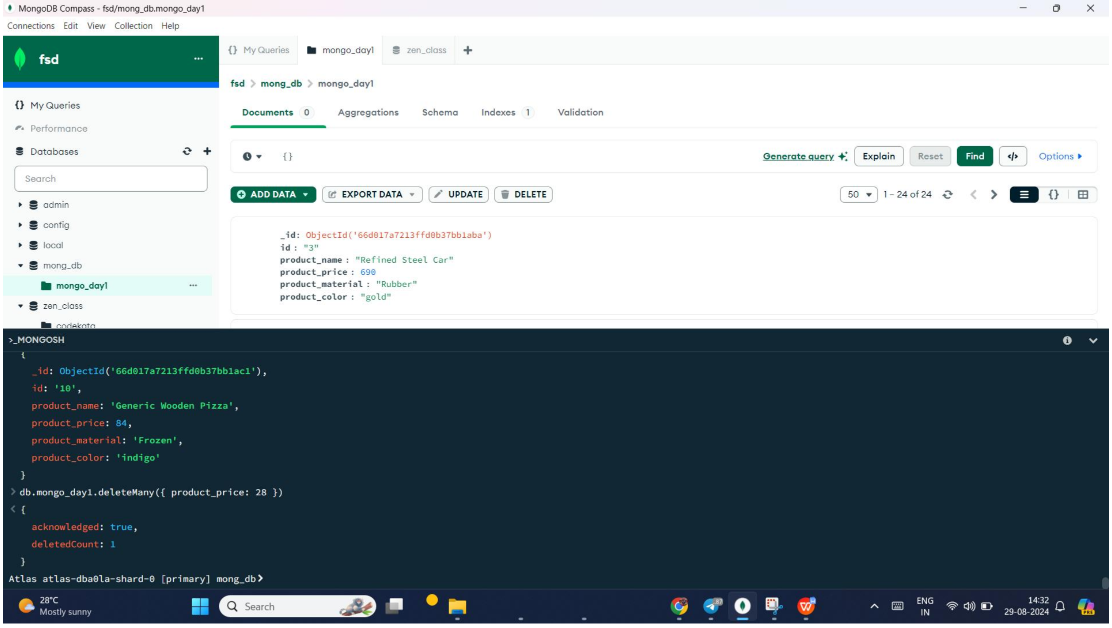

MongoDB Compass - fsd/mong_db.mongo_day1
Connections Edit View Collection Help
fsd
{} My Queries
mongo_day1
fsd > mong_db > mongo_day1
{} My Queries
>_MONGOSH
Search

```
> db.mongo_day1.find({ product_material: /soft/i })
< {
    _id: ObjectId('66d017a7213ffd0b37bb1ac0'),
    id: '9',
    product_name: 'Awesome Wooden Ball',
    product_price: 28,
    product_material: 'Soft',
    product_color: 'azure'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1aca'),
    id: '19',
    product_name: 'Intelligent Cotton Chips',
    product_price: 46,
    product_material: 'Soft',
    product_color: 'azure'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1abb'),
    id: '4',
    product_name: 'Gorgeous Plastic Pants',
    product_price: 492,
    product_material: 'Soft',
    product_color: 'plum'
  }
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ac2'),
```

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

--- No products which hae such attributes

10. Delete the products which product price value are 28



```
_id: ObjectId('66d017a7213ffd0b37bb1aba')
id : "3"
product_name : "Refined Steel Car"
product_price : 690
product_material : "Rubber"
product_color : "gold"
```

```
  {
    _id: ObjectId('66d017a7213ffd0b37bb1ac1'),
    id: '10',
    product_name: 'Generic Wooden Pizza',
    product_price: 84,
    product_material: 'Frozen',
    product_color: 'indigo'
  }
> db.mongo_day1.deleteMany({ product_price: 28 })
< {
    acknowledged: true,
    deletedCount: 1
  }
Atlas atlas-dba0la-shard-0 [primary] mong_db>
```