1. How many products did you scrape?

```
db.flipkart.count()
Atlas atlas-gfi6wi-shard-0 [primary] arpan> db.flipkart.count()
DeprecationWarning: Collection.count() is deprecated. Use countDocuments or estimatedDocumentCount.
7620
```

2. How many products have a discount on them?

```
db.flipkart.find({ $expr : {$ne : ["$original_price","$sale_price"]}
}).count()
```

```
&Atlas atlas-gfi6wi-shard-0 [primary] arpan> db.flipkart.find({ $expr : {$ne : ["$origin
al_price","$sale_price"]}}).count()
0
```

3. How many Topwear products don't have any discount on them?

```
db.flipkart.find({
          product_category : "topwear" ,
          $expr :{$eq: ["$original_price","$sale_price"]}
     }).count()
```

```
Atlas atlas-gfi6wi-shard-0 [primary] arpan> db.flipkart.find({ product_category : "topwear" , $expr : {$eq: ["$original_price","$sale_price"]}}).count()
4680
```

4. How many unique brands are present in the collection?

```
db.flipkart.distinct("brand").length
```

```
Atlas atlas-gfi6wi-shard-0 [primary] arpan> db.flipkart.distinct("brand").length
314
```

5. What is the count of discounted products for each brand?

Ans: since there are no document with discount, group by does not have any input thus none.

Had, there been any discounted products, the query would have shown the result.

```
Atlas atlas-gfi6wi-shard-0 [primary] arpan> db.flipkart.aggregate([{ $match: { $expr: { $ne: ["$origin al_price", "$sale_price"] } } }, { $group: { _id: "$brand", discountedProductCount: { $sum: 1 } }])

Atlas atlas afi6wi-shard-0 [primary] arpan> db.flipkart fipd({"pame": /shirt/ })
```

6. How many products have shirt in their name?

```
Contains: "shirt"
db.flipkart.find({"name": /shirt/}).count()

Contains: "shirt"
db.flipkart.find({"name": /shirt/}).count()
```

```
Atlas atlas-gfi6wi-shard-0 [primary] arpan> db.flipkart.find({"name": / shirt/ }).count()
632
Atlas atlas-gfi6wi-shard-0 [primary] arpan> db.flipkart.find({"name": /shirt/ }).count()
1469
```

7. How many products have offer price greater than 300?

```
db.flipkart.find({ "sale_price": { $gt: 300 } }).count()
Atlas atlas-gfi6wi-shard-0 [primary] arpan> db.flipkart.find({ "sale_price": { $gt: 300 } }).count()
5971
```

8. How many products have discount % greater than 30%?

let cmp = { \$divide: ["\$sale price", "\$original price"] }

```
db.flipkart.find({$expr: {$lt : [ cmp, NumberDecimal("0.7") ]}}).count()

Atlas atlas-gfi6wi-shard-0 [primary] arpan> let cmp = { $divide: ["$sale_price", "$original_price"] }

Atlas atlas-gfi6wi-shard-0 [primary] arpan> db.flipkart.find({$expr: {$lt : [ cmp, NumberDecimal("0.7"] ]}}).count()
```

9. How many footwear products have a 50% discount?

```
db.flipkart.find({
          product_category : {$eq: "footwear"} ,
          $expr: {$eq : [ cmp, NumberDecimal("0.5") ]}
     }).count()
```

```
Atlas atlas-gfi6wi-shard-0 [primary] arpan> db.flipkart.find({product_category : {$eq: "footwear"} , $expr: {$eq : [ cmp, NumberDecimal("0.5") ]}}).count()
```

10. Which brand in Topwear section is selling the most number of products?

```
Atlas atlas-gfi6wi-shard-0 [primary] arpan> db.flipkart.aggregate( {$match:{"product_category":"topwea {r"}}, {$group : {_id : "$brand", "sumP" : {$sum : 1}}} , {$sort:{"sumP": -1}},{$limit:1})
{       [ { _id: 'SAINT LAURENT', sumP: 107 } ]
```