Example of NoSQL (MongoDb) Queries

Q1: Find the count of total number of records in the collection.

```
> use Laureate
< 'switched to db Laureate'
> db.laureate2.count();
< 955</pre>
```

Q2: Find the count of records for each diedCountryCode in descending order of count.

```
{ _id: ObjectId("622375569affc1beaed12a47"),
 diedCountryCode: 'ZA',
diedCity: 'Johannesburg',
```

Q3: Find the count of records for each prizes.category in descending order of count.

Q4: Find the count of records for each gender, diedCountryCode, prize.category when prize.category is "physics". Order the output by diedCountryCode.

```
db.laureate2.find(( "prizes": (SelesMatch:(category : "physics") )), ( gender: 1, diedCountryCode: 1, "prizes.category":1 )).sort(("diedCountryCode":-1))
diedCountryCode: 'Us',
gender: 'male',
prizes: [ ( category: 'physics' ) ] }
[ _id: ObjectId("622375569affclbeaed12854"),
diedCountryCode: 'Us',
gender: 'male',
prizes: [ ( category: 'physics' ) ] }
[ _id: ObjectId("622375569affclbeaed12860"),
diedCountryCode: 'Us',
gender: 'male',
prizes: [ ( category: 'physics' ) ] }
[ _id: ObjectId("622375569affclbeaed12860"),
diedCountryCode: 'Us',
gender: 'male',
prizes: [ ( category: 'physics' ) ] }
[ _id: ObjectId("622375569affclbeaed12862"),
diedCountryCode: 'Us',
gender: 'male',
prizes: [ ( category: 'physics' ) ] }
[ _id: ObjectId("622375569affclbeaed12866"),
diedCountryCode: 'Us',
gender: 'male',
prizes: [ ( category: 'physics' ) ] }
[ _id: ObjectId("622375569affclbeaed12866"),
diedCountryCode: 'Us',
gender: 'male',
prizes: [ ( category: 'physics' ) ] }
[ _id: ObjectId("622375569affclbeaed12867"),
diedCountryCode: 'Us',
gender: 'male',
prizes: [ ( category: 'physics' ) ] }
[ _id: ObjectId("622375569affclbeaed12867"),
diedCountryCode: 'Us',
gender: 'male',
prizes: [ ( category: 'physics' ) ] }
```

```
{ _id: ObjectId("622375569affc1beaed1286e"),
    diedCountryCode: 'US',
    gender: 'male',
    prizes: [ {        category: 'physics' } ] }
{ _id: ObjectId("622375569affc1beaed12870"),
    diedCountryCode: 'US',
    gender: 'male',
    prizes: [ {        category: 'physics' } ] }
{ _id: ObjectId("622375569affc1beaed12871"),
    diedCountryCode: 'US',
    gender: 'male',
    prizes: [ {        category: 'physics' } ] }
{ _id: ObjectId("622375569affc1beaed12872"),
    diedCountryCode: 'US',
    gender: 'male',
    prizes: [ {        category: 'physics' } ] }
{ _id: ObjectId("622375569affc1beaed12874"),
    diedCountryCode: 'US',
    gender: 'male',
    prizes: [ {        category: 'physics' } ] }
{ _id: ObjectId("622375569affc1beaed12875"),
    diedCountryCode: 'US',
    gender: 'male',
    prizes: [ {        category: 'physics' } ] }
```

```
{ _id: ObjectId("622375569affclbeaed12875"),
    diedCountryCode: 'US',
    gender: 'male',
    prizes: [ ( category: 'physics' ) ] )
{ _id: ObjectId("622375569affclbeaed12876"),
    diedCountryCode: 'US',
    gender: 'male',
    prizes: [ ( category: 'physics' ) ] )
{ _id: ObjectId("622375569affclbeaed12877"),
    diedCountryCode: 'US',
    gender: 'male',
    prizes: [ ( category: 'physics' ) ] )
{ _id: ObjectId("622375569affclbeaed12879"),
    diedCountryCode: 'US',
    gender: 'male',
    prizes: [ ( category: 'physics' ) ] )
{ _id: ObjectId("622375569affclbeaed12881"),
    diedCountryCode: 'US',
    gender: 'male',
    prizes: [ ( category: 'physics' ) ] )
{ _id: ObjectId("622375569affclbeaed12881"),
    diedCountryCode: 'US',
    gender: 'male',
    prizes: [ ( category: 'physics' ) ] )
{ _id: ObjectId("622375569affclbeaed12885"),
    diedCountryCode: 'US',
    gender: 'male',
    prizes: [ ( category: 'physics' ) ] )
```

Q5: Come up with your own query to show any interesting insight. Use at least two fields for match and two fields for group.

Random Insights:

Query used to find out people who won Nobel prizes on peace sorted in the descending order of year, just to get the idea of who got the latest Nobel Prize in peace category.

Group queries:

Query to show the number of male and female Nobel laureates counted with birthCountry to see how many males and females got the Nobel prizes for their country.

Query to show the recent deaths (which means in descending order of the death recorded year in the data) of the Nobel laureates to get to know that there were recent Nobel prizes given to people who passed away.

Match queries:

Query to show people who got the Nobel prizes in peace category who were born in Russia, since the war between Russia and Ukraine is ongoing. There are people in Russia too who got the Nobel peace prizes (quite an irony right now).

```
db.laureate2.aggregate(
    [(Smatch:("prizes": (SelemMatch:(category: "peace")), bornCountry: "Russia"))]
)

((_id: ObjectId("622375569affc1beaed12a54"),
    id: '534',
    firstname: 'Andrei',
    surname: 'Sakharov',
    born: '1921-05-21',
    died: '1989-12-14',
    bornCountry: 'Russia',
    bornCountry: 'Russia',
    bornCountry: 'Wassa',
    bornCountry: 'USSR (now Russia)',
    diedCountry: 'USSR (now Russia)',
    diedCountryCode: 'RU',
    diedCountryCode: 'RU
```

Query to show Albert Einstein's Nobel prizes received for his work in the field of physics as he is one of the most famous scientist known by almost every one.