

Application for Blood Bank Management System

Milestone: NoSQL Implementation

Group 2
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Percentage of effort contributed by Jwalit Shah - 100%

Signature of Jwalit Shah

A handwritten signature in black ink, appearing to be 'J. Shah' with a stylized flourish at the end.

Submission Date - 3 December 2022

Queries and their Outputs

1)

```
db.Events.aggregate([{"$group" : {_id:"$Event_type",  
count:{$sum:1}}}]])
```

```
> db.Events.aggregate([{"$group" : {_id:"$Event_type", count:{$sum:1}}}]])  
< { _id: 'School', count: 22 }  
   { _id: 'University', count: 11 }  
   { _id: 'Company', count: 17 }
```

2)

```
db.Recipient.aggregate({ $sort : { Quantity_required : 1 } })
```

```
db.Recipient.aggregate({ $sort : { Quantity_required : 1 } })  
{ _id: ObjectId("6387e5bb6156b06447649aff"),  
  Recipient_id: 315584924,  
  First_name: 'Camren',  
  Last_name: 'Farrell',  
  Recipient_blood_group: 'O+',  
  Zip_code: 15644,  
  Contact_no: 4377787577,  
  Gender: 'Other',  
  Weight: 75,  
  Age: 70,  
  Quantity_required: 179,  
  Transaction_id: 93,  
  date_of_requirement: 2004-01-03T00:00:00.000Z }  
{ _id: ObjectId("6387e5bb6156b06447649ae1"),  
  Recipient_id: 98,  
  First_name: 'Jeff',  
  Last_name: 'Considine',  
  Recipient_blood_group: 'AB-',  
  Zip_code: 27270,  
  Contact_no: 5457744625,  
  Gender: 'Other',
```

3)

```
db.Analysis.findOne({ Quality : "Good" })
```

```
> db.Analysis.findOne({ Quality : "Good" })
< { _id: ObjectId("6387deef6156b0644764996c"),
  Donation_id: 0,
  Quality: 'Good',
  Haemoglobin_level: 3,
  Iron_level: 32,
  RBC_Count: 24,
  WBC_Count: 86,
  Platelet_Count: 2,
  Donor_id: 0,
  Blood_id: 0 }
```

4)

```
db.Hospitals.find().limit(5)
```

```
> db.Hospitals.find().limit(5)
< { _id: ObjectId("6387e4556156b06447649a6b"),
  Hospital_id: 0,
  Hospital_name: 'nulla',
  Amount_available: 63971360,
  Bloodbank_id: 920,
  Payment_id: 917,
  Recipient_id: 60 },
  { _id: ObjectId("6387e4556156b06447649a6c"),
  Hospital_id: 3,
  Hospital_name: 'ipsum',
  Amount_available: 53214,
  Bloodbank_id: 952,
  Payment_id: 930,
  Recipient_id: 66 },
  { _id: ObjectId("6387e4556156b06447649a6d"),
  Hospital_id: 4,
  Hospital_name: 'aut',
  Amount_available: 478438,
  Bloodbank_id: 5,
  Payment_id: 4,
  Recipient_id: 4 },
  { _id: ObjectId("6387e4556156b06447649a6e"),
  Hospital_id: 7,
  Hospital_name: 'voluptatibus',
  Amount_available: 25683,
```

5)

```
db.Donor.find().skip(4)
```

```
> db.Donor.find().skip(4)
< { _id: ObjectId("6387e2fb6156b06447649a09"),
  Donor_id: 30,
  First_name: 'Moriah',
  Last_name: 'Kihn',
  Donor_blood_group: 'AB-',
  Zip_code: 89828,
  Contact_no: 2058788408,
  Gender: 'Female',
  Weight: 92,
  Age: 17,
  Quantity_donated: 248,
  Disease: 'similique',
  Last_donation_date: 1973-04-23T00:00:00.000Z,
  Last_alcohol_consumption_date: 1997-11-27T00:00:00.000Z }
{ _id: ObjectId("6387e2fb6156b06447649a0a"),
  Donor_id: 40,
  First_name: 'Lura',
  Last_name: 'Little',
  Donor_blood_group: 'B-',
  Zip_code: 38205,
  Contact_no: 5542198892,
  Gender: 'Other',
  Weight: 115,
  Age: 57,
  Quantity_donated: 513,
```