

P2. Queries

1.- db.blood.aggregate([{\$match: {eye: "Gray"}},{\$group: {_id: "\$eye",mediagris: {\$avg:"\$hemograma.Plaquetas"}}}])

db.partials.insertOne({mediagris: 275391.558018018})

2.- db.blood.find({"bioquimica.HDL_LDL.0": {\$lt: 43}}).count()

db.partials.insertOne({HDLbajo:3634})

3.- db.blood.aggregate([{\$match: { height: { \$gt: 208 } } }, { \$group: { _id: "\$height",minHierro: { \$min: "\$bioquimica.Hierro" } } }])

db.partials.insertOne({MinHierro: 62.6625})

4.- db.blood.aggregate([{\$unwind: "\$muestras_SPO2" }, { \$group: { _id: "\$muestras_SPO2",count:{\$sum:1} } }])

```
[
  { _id: 99, count: 108025 },
  { _id: 98, count: 107633 },
  { _id: 96, count: 107580 },
  { _id: 97, count: 108194 },
  { _id: 95, count: 108256 }
]
```

db.partials.insertOne({muestras: [95,97]})

5.-

```
db.blood.aggregate([
  {$project:{"hemograma.hto":
{$replaceAll:{input:"$hemograma.hto",find:"%",replacement:""}},
  {$addFields:{convertedPercentage:{$toDecimal:"$hemograma.hto"}},
  {$match:{convertedPercentage:{$lt:42.00}}},
  {$group:{_id:"convertedPercentage",count:{$sum:1}}}
])
```

db.partials.insertOne({hematocritos:14940})

6.-

```
db.blood.aggregate([
```

```
{ $match: { "hemograma.Plaquetas": { $lt: 275391.558018018 }, "bioquimica.HDL_LDL.0": { $lt: 43 }, "bioquimica.Hierro": { $gt: 62.6625 }, "hemograma.hto": { $lt: "42%" }, "muestras_SPO2": { $in: [95, 97] } } }, { $project: { name: "$name", email: { $concat: ["$email_u", "@", "$email_d"] } } }, { $out: { db: "samples", coll: "results" } } }
```

```
])
```