## Week 2

## Exercise 1

Filter by Education and group by marital status to find the Average Age, Min age, Max age, Average Salary, Min Salary and max salary of these people.

```
peopledb> db.people.aggregate(
... {$match:{Education:"Master"}},
... {$group:{_id:"$Marital Status",
... AverageAge:{$avg:"$Age"},
... MinAge:{$min:"$Age"},
... MaxAge:{$max:"$Age"},
... AverageSalary:{$avg:"$Salary"},
... MinSalarty:{$min:"$Salary"},
... MaxSalary:{$max:"$Salary"}
... }}])
     _id: 'Married',
     AverageAge: 25.8,
     MinAge: 18,
MaxAge: 30,
     AverageSalary: 5227.5,
     MinSalarty: 940,
     MaxSalary: 8483
     _id: 'Single',
AverageAge: 25.333333333333333,
     MinAge: 18,
     MaxAge: 30,
     AverageSalary: 3783.8,
     MinSalarty: 718,
     MaxSalary: 8722
  }
peopledb>
```

### Exercise 2

Find min, max, average salary of each age group by females

## Exercise 3

Find min, max, average salary of each age group by males

```
peopledb> db.people.aggregate(
 ... [
... {$match:{Gender:"Male"}},
... {d:"$Age",
 ... {smarch:\dender:\male\},
... {sgroup:\{_id:\sAge\,
... AverageSalary:\Savg:\sSalary\},
... MinSalarty:\smin:\sSalary\},
... MaxSalary:\smin:\sSalary\}
... | MaxSa
[... | ] | ] | [
          _id: 23,
         AverageSalary: 5848.166666666667,
MinSalarty: 1318,
MaxSalary: 9854
          _id: 20,
         AverageSalary: 5309.333333333333,
MinSalarty: 1258,
MaxSalary: 9587
          _id: 21,
         AverageSalary: 4426.25,
MinSalarty: 1810,
MaxSalary: 9460
        ,
_id: 25, AverageSalary: 4326.5, MinSalarty: 2032, MaxSalary: 7667 },
_id: 29, AverageSalary: 7562.5, MinSalarty: 5226, MaxSalary: 9899 },
         _id: 27,
AverageSalary: 5337.875,
         MinSalarty: 1432,
MaxSalary: 7548
         _id: 18,
AverageSalary: 4804.8333333333333,
         MinSalarty: 940,
MaxSalary: 7677
         _id: 19,
AverageSalary: 5469.75,
         MinSalarty: 1221,
MaxSalary: 9543
        _id: 26, AverageSalary: 5729.5, MinSalarty: 826, MaxSalary: 8380 }, _id: 28, AverageSalary: 5084.9, MinSalarty: 0, MaxSalary: 9989 }, _id: 24, AverageSalary: 4412.4, MinSalarty: 2033, MaxSalary: 8170 },
         __u. 22,
AverageSalary: 4458.285714285715,
MinSalarty: 2158,
MaxSalary: 8430
        _id: 30,
AverageSalary: 5363.0909090909090,
MinSalarty: 1260,
MaxSalary: 9989
peopledb>
```

#### Exercise 4

### Count Unmarried and married females and males

# Reflection

This week I downloaded mongoDB, Mongodb compass and mongodb Shell. I also learned how to use MongoDB compass and mongoDB Shell, I learned how to use the \$group and \$match functions as well as how to get the min, max, avg and sum of data. I also learned how to navigate mongoDB to get into the correct collection and database.