

WEEK2

Write MongoDB queries for the following using either command shell:

1. Find the avg,min,max age and avg min max Salary of the people group by Marital status.

```
db.people.aggregate([
  { $match: { Education: "Master" } },
  {
    $group: {
      _id: "$Marital Status",
      avgAge: { $avg: "$Age" },
      minAge: { $min: "$Age" },
      maxAge: { $max: "$Age" },
      avgSalary: { $avg: "$Salary" },
      minSalary: { $min: "$Salary" },
      maxSalary: { $max: "$Salary" }
    }
  }
]);
```

Marital Status	Avg Age	Min Age	Max Age	Avg Salary	Min Salary	Max Salary
Married	24.68	18	30	5072.93	516	9989
Single	23.76	18	30	5026.62	509	9989

2. find min,max average salary of each age group of female

```
db.people.aggregate([
  { $match: { Gender: "Female" } },
  {
    $group: {
      _id: "$Age",
      avgSalary: { $avg: "$Salary" },
      minSalary: { $min: "$Salary" },
      maxSalary: { $max: "$Salary" }
    }
  },
  { $sort: { _id: 1 } } // Optional: Sort by age in ascending order
]);
```

Age	Avg Salary	Min Salary	Max Salary
18	5405.25	2638	8631
19	4330.91	516	9846
30	4623.36	619	8268

3. find min,max average salary of each age group of male

```
db.people.aggregate([
  { $match: { Gender: "Male" } },
  {
```

```

    $group: {
      _id: "$Age",
      avgSalary: { $avg: "$Salary" },
      minSalary: { $min: "$Salary" },
      maxSalary: { $max: "$Salary" }
    }
  },
  { $sort: { _id: 1 } } // Optional: Sort by age in ascending order
]);

```

Age	Avg Salary	Min Salary	Max Salary
18	4804.83	940	7677
19	5469.75	1221	9543
30	5363.09	1260	9989

4. Count married and unmarried females and males

```

db.people.aggregate([
  {
    $group: {
      _id: { Gender: "$Gender", MaritalStatus: "$Marital Status" },
      count: { $sum: 1 }
    }
  }
]);

```

Gender	Marital Status	Count
Female	Married	48
Female	Single	60
Male	Married	50
Male	Single	42