

# Queries-B3

*[!NOTE] Use Employee database created in Assignment B-01 and perform following aggregation operation Refer [Queries-B1](https://git.kska.io/sppu-te-comp-content/DatabaseManagementSystems/src/branch/main/Practical/Assignment-B1/Queries-B1.md) (<https://git.kska.io/sppu-te-comp-content/DatabaseManagementSystems/src/branch/main/Practical/Assignment-B1/Queries-B1.md>).*

## 1. Return the Total Salary of per Company

```
db.Employee.mapReduce(  
  function() {  
    emit(this.Company_name, this.Salary);  
  },  
  function(key, values) {  
    return Array.sum(values);  
  },  
  { out: "total_salary_per_company" }  
);
```

## 2. Return the Total Salary of Company Name:"Oscorp"

```
db.Employee.mapReduce(  
  function() {  
    if (this.Company_name === "Oscorp") {  
      emit(this.Company_name, this.Salary);  
    }  
  },  
  function(key, values) {  
    return Array.sum(values);  
  },  
  { out: "total_salary_oscorp" }  
);
```

## 3. Return the Avg Salary of Company whose address is "Pune".

```
db.Employee.mapReduce(  
  function() {  
    if (this.Address.some(addr => addr.PAddr.includes("Pune"))) {  
      emit("Pune", this.Salary);  
    }  
  },  
  function(key, values) {  
    return Array.avg(values);  
  },  
  { out: "avg_salary_pune" }  
);
```

4. Return the Total Salary for each Designation of Wayne Industries.

```
db.Employee.mapReduce(  
  function() {  
    if (this.Company_name === "Wayne Industries") {  
      emit(this.Designation, this.Salary);  
    }  
  },  
  function(key, values) {  
    return Array.sum(values);  
  },  
  { out: "total_salary_wayne" }  
);
```

5. Return total count for "State=Maharashtra"

```
db.Employee.mapReduce(  
  function() {  
    this.Address.forEach(function(addr) {  
      if (addr.LAddr === "Maharashtra") {  
        emit("Maharashtra", 1);  
      }  
    });  
  },  
  function(key, values) {  
    return Array.sum(values);  
  },  
  { out: "count_state_maharashtra" }  
);
```

#### 6. Return Count for State Telangana and Age greater than 40.

```
db.Employee.mapReduce(  
  function() {  
    if (this.Age > 40) {  
      this.Address.forEach(function(addr) {  
        if (addr.LAddr === "Telangana") {  
          emit("Telangana_Age_Above_40", 1);  
        }  
      });  
    }  
  },  
  function(key, values) {  
    return Array.sum(values);  
  },  
  { out: "count_telangana_age_above_40" }  
);
```