DBMS B3

// Query 1: Total Salary of Each Company

db.Employee.aggregate([

{

$group: {

\_id: "$CompanyName",

totalSalary: { $sum: "$Salary" }

}

}

]).forEach(doc => print(`Company: ${doc.\_id}, Total Salary: ${doc.totalSalary}`));

output:-

Company: Infosys, Total Salary: 155000

Company: Tech Solutions Inc., Total Salary: 75000

Company: TCS, Total Salary: 85000

// Query 2: Total Salary of Company Name: "TCS"

db.Employee.aggregate([

{

$match: { CompanyName: "TCS" }

},

{

$group: {

\_id: null,

totalSalary: { $sum: "$Salary" }

}

}

]).forEach(doc => print(`Total Salary for TCS: ${doc.totalSalary}`));

output:-

Total Salary for TCS: 85000

// Query 3: Average Salary of Companies Whose Address is "Pune"

db.Employee.aggregate([

{

$match: { "Address.City": "Pune" }

},

{

$group: {

\_id: "$CompanyName",

avgSalary: { $avg: "$Salary" }

}

}

]).forEach(doc => print(`Company: ${doc.\_id}, Average Salary: ${doc.avgSalary}`));

output:-

Company: TCS, Average Salary: 85000

// Query 4: Total Salary for Each Designation of Infosys

db.Employee.aggregate([

{

$match: { CompanyName: "Infosys" }

},

{

$group: {

\_id: "$Designation",

totalSalary: { $sum: "$Salary" }

}

}

]).forEach(doc => print(`Designation: ${doc.\_id}, Total Salary: ${doc.totalSalary}`));

output:-

Designation: Project Manager, Total Salary: 95000

Designation: Developer, Total Salary: 60000

// Query 5: Total Count for "State=AP"

db.Employee.aggregate([

{

$match: { "Address.State": "AP" }

},

{

$count: "count"

}

]).forEach(doc => print(`Total Count for State AP: ${doc.count}`));

output:-

Total Count for State AP: 2

// Query 6: Count for State AP and Age Greater Than 40

db.Employee.aggregate([

{

$match: {

"Address.State": "AP",

Age: { $gt: 40 }

}

},

{

$count: "count"

}

]).forEach(doc => print(`Count for State AP and Age > 40: ${doc.count}`));

output:-

Count for State AP and Age > 40: 1