NoSQL-Mongo Lab3

**After Insert Aggregation Data File**

Use Robo 3 T to create the following:

1. Try Export any Collection and import it into new Collection using Mongo Robo 3T
2. Calculate the total revenue for product from **sales** collection documents within the date range '01-01-2020' to '01-01-2023' and then sort them in descending order by total revenue.
   1. Total Revenue= Sum (Quantity \* Price)
3. Try Query 2 using Robo 3T using aggregate wizard and insert result into **new collection** named “newColl”
4. Calculate the average salary for **employees** for each department from the employee’s collection.
5. Use likes Collection to calculate max and min likes per title
6. Get inventory collection **Count , countDocuments**
7. Display **5** documents only from inventory collection
8. Count numbers of large Pizza size from orders collection  **[using $count inside aggregate function]**
9. Create two collections in MongoDB that represent a **manual relationship** between **students** and their **projects**. Then retrieve related data using aggregation.

#### **Insert into students collection**

#### db.**students**.insertMany([

#### { \_id: 1, name: "Ali", email: "ali@mail.com" },

#### { \_id: 2, name: "Sara", email: "sara@mail.com" }

#### ])

#### **Insert into projects collection**

#### db.**projects**.insertMany([

#### { \_id: 101, title: "AI Project", studentId: 1 },

#### { \_id: 102, title: "Web App", studentId: 2 }

#### ])

#### **Output:**

{

"\_id": 101,

"title": "AI Project",

"studentName": "Ali",

"studentEmail": "ali@mail.com"

}

{

"\_id": 102,

"title": "Web App",

"studentName": "Sara",

"studentEmail": "sara@mail.com"}