31-07-2024 DAY 5

DAILY TASK

- 1) Insert documents into a sales collection with fields such as item, quantity, price, and date.
 - Using the database Sample

```
> use sample
< already on db sample</pre>
```

• Creating the collection called "Task"

```
> db.createCollection("task")
< { ok: 1 }</pre>
```

Inserting the data into the collection

Query:

```
db.task.insertMany([
    { item: "A", quantity: 20, price: 200, date: new Date("2023-01-15") },
    { item: "B", quantity: 15, price: 250, date: new Date("2023-02-18") },
    { item: "C", quantity: 10, price: 120, date: new Date("2023-02-20") },
    { item: "D", quantity: 5, price: 330, date: new Date("2023-03-25") },
]);
```

OUTPUT:

```
    acknowledged: true,
    insertedIds: {
        '0': ObjectId('66aa139a64d843f818f76f08'),
        '1': ObjectId('66aa139a64d843f818f76f08'),
        '2': ObjectId('66aa139a64d843f818f76f08'),
        '3': ObjectId('66aa139a64d843f818f76f08')
    }
}
```

2) Write aggregation pipelines to: Calculate the total sales amount for each item.

QUERY:

OUTPUT:

```
{
    _id: 'C',
    totalSalesAmount: 1200
}
{
    _id: 'B',
    totalSalesAmount: 3750
}
{
    _id: 'D',
    totalSalesAmount: 1650
}
{
    _id: 'A',
    totalSalesAmount: 4000
}
```

3) Find the average quantity sold per item $\,$

QUERY:

OUTPUT:

4) Group sales by month and calculate the total sales foreach month and sort from the largest value

QUERY:

OUTPUT:

```
c {
    __id: {
        month: 2,
        year: 2023
    },
    totalSales: 4950
}

{
    __id: {
        month: 1,
        year: 2023
    },
    totalSales: 4000
}

{
    __id: {
        month: 3,
        year: 2023
    },
    totalSales: 1550
}
```

5) Display which year has the maximum sales

QUERY:

OUTPUT: