

Q. 5

Explain Aggregation in MongoDB with syntax and example

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- ① Aggregation operations process data records and return computed results.
- ② Aggregation operations group values from multiple documents together, and can perform variety of operations on the grouped data to return single result
- ③ MongoDB provides three ways to perform aggregation. The aggregation pipeline, the map-reduce function and single purpose aggregation methods

* Aggregation Pipeline -

Aggregation framework is modeled on the concept of data processing pipeline

e.g.

```
db.orders.aggregate([
  { $match : { status : "A" } },
  { $group : { _id : "$cust-id", total : { $sum :
    "amount" } } }
])
```

First stage :-

The \$match stage filters documents by the status field and passes to the next stage ~~at~~ those docs which have status "A".

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Second stage -

The group stage groups documents
by cust- id and calculate sum.