

Aggregation → data processing pipeline

db. collection. aggregate ([

 \$ Stage 1 \$,

 \$ Stage 2 \$,

 \$ Stage 3 \$

])

]

different
Stages

Stage 1 → then Stage 2 → ...

<u>Stage</u>	<u>Purpose</u>	<u>SQL Like</u>
\$match	Filter	Where
\$project	Compute	Select
\$group	Group + Aggregate	Group By
\$sort	Sort	Order By
\$limit	limit	Limit
\$lookup	Join	Join

Ex: db.orders.aggregate([
 { \$group: {
 ~~id~~ -id: "\$customer",
 totalSpent: { \$sum: "\$amount" },
 ordercount: { \$sum: 1 }
 } }])

Select
 sum(amt)
 as total

{ \$match: { status: "completed" } },
 { \$sort: { totalSpent: -1 } }

^{order}
db.aggregate ([d

\$lookup: d

from: "customers",

localField: "customerId",

foreignField: "_id",

as: "customers"

})

join as field
customers

] JOIN customers

] on a = b