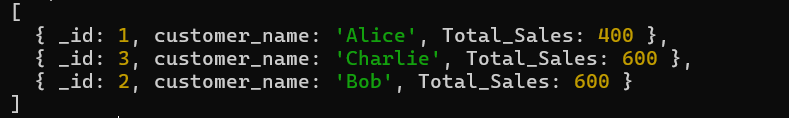


1. Calculate Total Sales for Each Order.

db.orders.aggregate([{$unwind:"$products"},{$group:{\_id:"$\_id",customer\_name:{$first:"$customer\_name"},Total\_Sales:{$sum:{$multiply:["$products.price","$products.quantity"]}}}}])



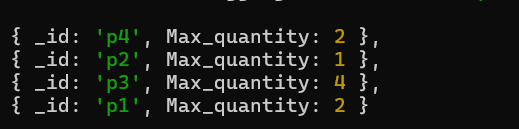
1. Calculate Average Order Value for Completed Orders.

db.orders.aggregate([{$match:{status:"Completed"}},{$unwind:"$products"},{$group:{\_id:"$\_id",Total\_order:{$sum:{$multiply:["$products.price","$products.quantity"]}}}},{$group:{\_id:null,average\_order:{$avg:"$Total\_order"}}}])

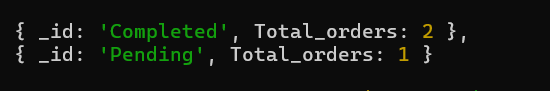


1. Find the Maximum Quantity Sold per Product.

db.orders.aggregate([{$unwind:"$products"},{$group:{\_id:"$products.product\_id",Max\_quantity:{$max:"$products.quantity"}}}])

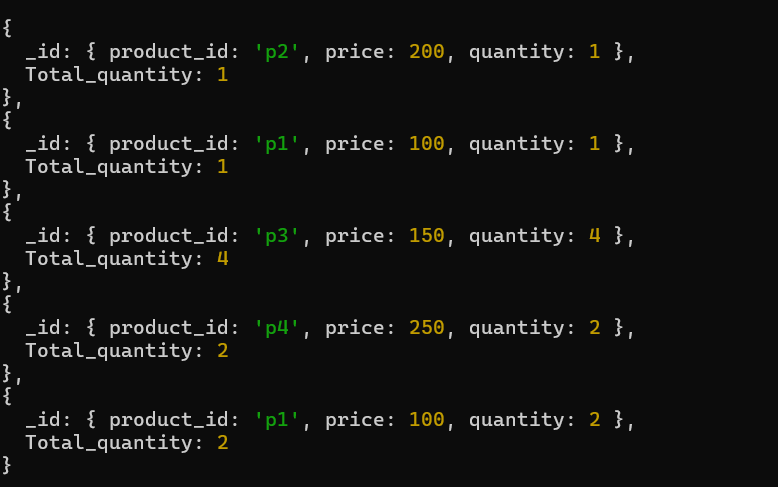


1. Find Total Number of Orders for Each Status.

db.orders.aggregate([{$group:{\_id:"$status",Total\_orders:{$sum:1}}}])  


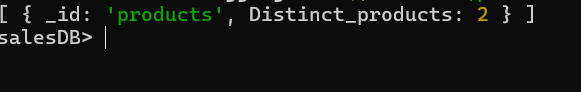
1. Calculate Total Quantity of Products Sold Across All Orders.

db.orders.aggregate([{$unwind:"$products"},{$group:{\_id:"$products",Total\_quantity:{$sum:"$products.quantity"}}}])



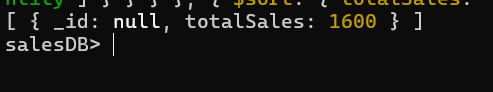
1. Get Minimum and Maximum Order Dates.

db.sales.aggregate([{$unwind:"$products"},{$group:{\_id:"$products.product\_id"}},{$group:{\_id:"products",Distinct\_products:{$sum:1}}}])



1. Find Total Sales for Each Customer.

db.orders.aggregate([ { $unwind: "$products" }, { $group: { \_id: "$customerId", totalSales: { $sum: { $multiply: ["$products.price", "$products.quantity"] } } } }, { $sort: { totalSales: -1 } }] )



1. Calculate the Total Number of Distinct Products Sold.

db.orders.aggregate([{$unwind: "$products"},{$group: {\_id: null,distinctProducts: { $addToSet: "$products.productId" }}},{$project: {totalDistinctProducts: { $size: "$distinctProducts" }}}])

