

```
// date format:
// 2025-01-25T18:31:00Z

// $year --> used to extract year
// $month --> month, $dayOfMonth: --> day

// orders after a date
db.orders.aggregate([
  {
    $match: {
      orderDate: {
        $gte: ISODate("2024-01-01"),
        $lte: ISODate("2024-12-31")
      }
    }
  }
]);
// date to string
ex:
db.orders.aggregate([
  {
    $project: {
      orderMonth: {
        $dateToString: { format: "%Y-%m", date: "$orderDate" }
      }
    }
  }
]);

// $dayOfWeek, $week, $hour
db.orders.aggregate([
  {
    $project: {
      dayOfWeek: { $dayOfWeek: "$orderDate" }, // 1=Sun
      week: { $week: "$orderDate" },
      hour: { $hour: "$orderDate" }
    }
  }
]);

// last N days logic (very common)
// orders in last 7 days
db.orders.aggregate([
  {
    $match: {
      orderDate: {
        $gte: new Date(Date.now() - 7 * 24 * 60 * 60 * 1000)
      }
    }
  }
]);
```

```
// $min/$max dates
db.orders.aggregate([
  {
    $group: {
      _id: null,
      firstOrder: { $min: "$orderDate" },
      lastOrder: { $max: "$orderDate" }
    }
  }
]);
```