

MongoDB Aggregation Operators Cheat Sheet

1. Accumulator Operators

- \$sum: Returns the sum of numeric values.
- \$avg: Returns the average of numeric values.
- \$min: Returns the minimum value.
- \$max: Returns the maximum value.
- \$push: Adds values to an array.
- \$addToSet: Adds unique values to an array.
- \$first: Returns the first value in a group.
- \$last: Returns the last value in a group.
- \$count: Returns the number of documents.
- \$stdDevPop / \$stdDevSamp: Population/Sample std deviation.

2. Arithmetic Operators

- \$add, \$subtract, \$multiply, \$divide, \$mod
- \$abs, \$ceil, \$floor, \$trunc, \$exp, \$ln, \$log, \$log10, \$pow, \$sqrt

3. String Operators

- \$concat, \$substr, \$substrBytes, \$substrCP
- \$toUpper, \$toLower, \$split, \$indexOfBytes, \$replaceOne, \$trim

4. Date Operators

- \$year, \$month, \$dayOfMonth, \$hour, \$minute, \$second
- \$dateToString, \$dateFromString, \$dateAdd, \$dateSubtract, \$dateDiff

5. Comparison Operators

- \$eq, \$ne, \$gt, \$gte, \$lt, \$lte, \$cmp

6. Conditional Operators

- \$cond, \$ifNull, \$switch

7. Array Operators

- \$size, \$slice, \$arrayElemAt, \$concatArrays, \$filter, \$map, \$reduce, \$in

8. Type & Conversion Operators

- \$type, \$convert, \$toString, \$toInt, \$toBool, etc.

9. Set Operators

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- \$setEquals, \$setIntersection, \$setUnion, \$setDifference, \$setIsSubset

10. Boolean Operators

- \$and, \$or, \$not

11. Miscellaneous Operators

- \$literal, \$mergeObjects, \$rand