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| |  |  |  | | --- | --- | --- | | OR | { $or: [<expression1>, <expression2>,...]} | db.books.find( { $or: [{year: {$lte: 2008}}, {year: {$eq: 2016}}]} ) | | AND | { $and: [<expression1>, <expression2>,...]} | db.books.find( { $and: [{year: {$eq: 2008}}, {category: {$eq: "Fiction"}}]} ) | | NOT | { $not: {<expression>}} | db.books.find( {$not: {year: {$eq: 2016} }}) | | NOR | { $nor: [<expression1>, <expression2>,...]} | db.books.find( { $nor: [{year: {$lte: 2008}}, {year: {$eq: 2016}}]} ) |   <https://www.opentechguides.com/how-to/article/mongodb/118/mongodb-cheatsheat.html>  <https://docs.mongodb.com/v3.2/reference/operator/aggregation-arithmetic/>   |  |  | | --- | --- | | [$abs](https://docs.mongodb.com/v3.2/reference/operator/aggregation/abs/#exp._S_abs) | Returns the absolute value of a number. | | [$add](https://docs.mongodb.com/v3.2/reference/operator/aggregation/add/#exp._S_add) | Adds numbers to return the sum, or adds numbers and a date to return a new date. If adding numbers and a date, treats the numbers as milliseconds. Accepts any number of argument expressions, but at most, one expression can resolve to a date. | | [$ceil](https://docs.mongodb.com/v3.2/reference/operator/aggregation/ceil/#exp._S_ceil) | Returns the smallest integer greater than or equal to the specified number. | | [$divide](https://docs.mongodb.com/v3.2/reference/operator/aggregation/divide/#exp._S_divide) | Returns the result of dividing the first number by the second. Accepts two argument expressions. | | [$exp](https://docs.mongodb.com/v3.2/reference/operator/aggregation/exp/#exp._S_exp) | Raises *e* to the specified exponent. | | [$floor](https://docs.mongodb.com/v3.2/reference/operator/aggregation/floor/#exp._S_floor) | Returns the largest integer less than or equal to the specified number. | | [$ln](https://docs.mongodb.com/v3.2/reference/operator/aggregation/ln/#exp._S_ln) | Calculates the natural log of a number. | | [$log](https://docs.mongodb.com/v3.2/reference/operator/aggregation/log/#exp._S_log) | Calculates the log of a number in the specified base. | | [$log10](https://docs.mongodb.com/v3.2/reference/operator/aggregation/log10/#exp._S_log10) | Calculates the log base 10 of a number. | | [$mod](https://docs.mongodb.com/v3.2/reference/operator/aggregation/mod/#exp._S_mod) | Returns the remainder of the first number divided by the second. Accepts two argument expressions. | | [$multiply](https://docs.mongodb.com/v3.2/reference/operator/aggregation/multiply/#exp._S_multiply) | Multiplies numbers to return the product. Accepts any number of argument expressions. | | [$pow](https://docs.mongodb.com/v3.2/reference/operator/aggregation/pow/#exp._S_pow) | Raises a number to the specified exponent. | | [$sqrt](https://docs.mongodb.com/v3.2/reference/operator/aggregation/sqrt/#exp._S_sqrt) | Calculates the square root. | | [$subtract](https://docs.mongodb.com/v3.2/reference/operator/aggregation/subtract/#exp._S_subtract) | Returns the result of subtracting the second value from the first. If the two values are numbers, return the difference. If the two values are dates, return the difference in milliseconds. If the two values are a date and a number in milliseconds, return the resulting date. Accepts two argument expressions. If the two values are a date and a number, specify the date argument first as it is not meaningful to subtract a date from a number. | | [$trunc](https://docs.mongodb.com/v3.2/reference/operator/aggregation/trunc/#exp._S_trunc) | Truncates a number to its integer. | |

1. MapReduce