

Lab Practice Questions – Topics Covered (Mongo DB CRUD Operations)

1. Display all products in the collection.
2. Retrieve only the name and brand fields of all products.
3. Find all products belonging to the category Accessories.
4. Find products where the brand is Corsair.
5. Retrieve products where the price is greater than 5000.
6. Find products where the price is between 3000 and 10000.
7. Find products where the discount is less than 15%.
8. Display all products sorted by price ascending.
9. Sort products by price descending.
10. Sort products by created date (latest first).
11. Show only name, sku and pricing fields.
12. Exclude _id from output while displaying name and category.
13. Find products where inventory stock is greater than 20.
14. Retrieve products stored in warehouse HYD-01.
15. Find products where the specification type is "Mechanical".
16. Find products having the feature "RGB Lighting".
17. Retrieve products having the feature "Gaming Mode".
18. Find products where the review username is "Max".
19. Find products where any review has ratingValue = 5.
20. Retrieve products where reviews contain the comment "Great typing".
21. Find products where the brand is "Corsair" AND price is less than 10000.
22. Find products where category is "Accessories" OR category is "Audio".
23. Find products where the price is NOT greater than 15000.
24. Update the price of the Corsair Keyboard to 8500.
25. Increase stock by 10 for SKU "CR-1018".
26. Add a new feature "Customizable Keys".
27. Remove feature "Gaming Mode".
28. Update the comment of the review given by user "Lee".
29. Delete products where stock is zero.
30. Delete all products belonging to a specific brand.
31. Retrieve products having at least one review rating greater than 4.
32. Find products where both features "RGB Lighting" AND "Durable Keys" exist.
33. Limit output to first 5 products.
34. Skip the first 3 products and display the next records.

1. Find products where SKU starts with CR- (prefix match).
2. Find products where name contains the word Keyboard (case-insensitive).
3. Find products where brand ends with son (e.g., "Sony") using regex.
4. Find products where pricing.currency is INR and price >= 5000.
5. Find products where inventory.stock is between 10 and 30 AND warehouse is HYD-01.
6. Find products where features array has at least 3 items.
7. Find products where features array exists and is not empty.
8. Find products where rating.totalReviews = 0 OR rating field is missing.
9. Find products where rating.average exists but is less than 4.0.
10. Find products where reviews array contains a review by "Max" AND that same review has ratingValue = 5 (use elemMatch).
11. Find products where any reviewDate is after 2025-02-10 (string date compare; works with ISO-like strings).
12. Find products where reviews has at least one comment containing build (case-insensitive).
13. Find products where two specific features ("RGB Lighting" and "Durable Keys") are both present.
14. Find products where none of the features contain the word RGB (regex + \$not).
15. Find products where specifications.type exists, regardless of value.
16. Find products where specifications.type is missing.
17. Find products that have inventory.warehouse in [HYD-01, HYD-03].
18. Find products where price is NOT in [2000, 3000, 4000] (use \$nin).
19. Find products where discount is either 10 or 14 (use \$in).
20. Find products where name field type is string (use \$type).
21. Add a new feature "Wireless" only if it doesn't already exist (use \$addToSet).
22. Add multiple features at once (e.g., ["Hotkeys", "Macro Support"]) without duplicates.
23. Remove all features matching regex RGB (use \$pull with regex).
24. Rename field description to details for all products (use \$rename).
25. Set a field status: "active" for products where it is missing (use \$set + filter).
26. Increase price by 5% for category "Accessories" (do it with \$mul, not aggregation).
27. Decrease stock by 1 for SKU "CR-1018" only if stock > 0 (conditional update).
28. Add a new review object to rating.reviews for a product with SKU "CR-1018".
29. Update the ratingValue of "Lee" to 5 inside the reviews array (use positional \$ with elemMatch in filter).
30. Update the comment of "Max" using arrayFilters (use \$[identifier]).
31. Delete products where createdAt is older than "2025-01-15" (string comparison).
32. Delete products where rating.reviews exists but is an empty array.
33. Return only 3 documents, sorted by price descending, showing only name + pricing.
34. Paginate: page size 5, page number 3 (use skip and limit).