MongoDB Associate Developer Exam Guide

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Introduction

Congratulations for taking the first step in becoming MongDB certified! This exam guide is designed to familiarize you with the details of the exam, the topics covered, and the resources to help you prepare. When you pass this exam, you will attain the MongoDB Associate Developer credential.

Candidate Description

A developer using MongoDB with their application must possess the knowledge and skills necessary to utilize the database effectively. This means that they must have hands-on experience completing day-to-day operational tasks needed to use MongoDB. At a minimum, it's recommended that the candidate has:

- Software engineering experience (any programming language)
- Successfully completed MongoDB training (or equivalent hands on experience using MongoDB as the backing database for an application)

Exam Details

Format: 53 Multiple choice questions
Time allotted: 75 Minutes
Exam fee: USD $150
Delivery Options: Online in a proctored environment
Prerequisites: None
Language: English
Other important information:

- Reference materials are not allowed during testing
- On occasion, there may be more than 53 questions on the exam. Periodically, MongoDB will place a handful of unscored questions on the exam for statistical purposes. These questions will not impact your exam score.
- If you have a disability and/or English is not your first language, we offer extended time versions of all of our exams upon request. Once you schedule your exam, please request extended time by sending your request to certification@mongodb.com. ***We require 72 hrs of advanced notice for extended time requests so we can make sure the proper arrangements are made.***
- Although you are provided with an immediate pass/fail result upon completion of the exam, our proctoring vendor, Examity, requires 72 hours to conduct a review of your testing session before your digital badge is released from Credly.

Scoring

MongoDB Certification exams have a pass/fail grading system that is determined through statistical analysis performed by psychometricians. Candidates must meet a required percentage to pass an exam. MongoDB does not publish the required percentages for our certifications as each exam passing score is determined by unique exam-specific statistical data. Candidates only need to obtain an overall required percentage to pass an exam and do not need to obtain a passing percentage for each specific domain.

Each domain has a specific weighting on the exam, which is shared in percentages within each Exam Study Guide. Domain weightings are determined by a panel of Subject Matter Experts who contributed to the development of the certification. Some domains can have more or less exam questions than others depending on the analysis of knowledge and skills required to show competency during the Job Task Analysis for the certification.

Upon completion of an exam, candidates will receive a score report that states whether they passed or failed the exam, in addition to the total percentage correct for each domain. The purpose of the score report is to provide candidates with data behind their strengths and where improvements can be made in their performance.

Candidates will receive one point for each scored exam question that is answered correctly. Periodically there are extra exam questions called unscored exam questions that do not impact your score. MongoDB field tests potential new exam questions and analyzes their statistical performance before determining if they should be used as scored exam questions on a future exam. The unscored items are not identified to avoid bias.

Recommended Training and Resources

This guide is meant to provide an overview of the exam and should not be the only means of preparation. While MongoDB training is not a prerequisite for this exam, and training alone does not guarantee certification, we strongly recommend candidates leverage the following MongoDB training courses and resources to prepare:

Free On-Demand Learning Path

We have curated Developer learning paths based on your preferred programming language:

- Developer Learning Paths

Fee-Based Virtual Instructor Led Training

Short on time and have support to pay for training? We've got you covered.

- MDB100: MongoDB Database and Security
- MDB200: MongoDB Optimization and Performance
- MDB300: MongoDB Production Readiness
- DEV400: MongoDB Developer Extension

Additional Training Resources

- Associate Developer Practice Questions
- Associate Developer Certification Deep Dive Video
- MongoDB Documentation
- MongoDB Community Forums
- MongoDB University for Developers LinkedIn Group

Exam Objectives

The exam objectives and topic level weighting are below for your reference. Use them to guide your study and to prepare for the exam.

Section 1: MONGODB OVERVIEW AND THE DOCUMENT MODEL (8%)	
1.1	Identify the set of value types MongoDB BSON supports.
1.2	Given three documents that are of different shape, identify which can co-exist in the same collection.
Section 2: CRUD (51%)	
2.1	Given a scenario with a type of structured document that needs to be inserted into a database, identify properly and improperly formed insert commands.
2.2	Given an update scenario where an entire updated document (no update operators used) is provided, identify the output and how the database changed state.
2.3	Given an update scenario where $set is used, identify the output and how the database changed state.
2.4	Given a scenario about updating a document and information about where it should be inserted if it does not exist, identify the upsert command that should be used.
2.5	Given a scenario where multiple documents need to be updated, identify the correct update expression.

2.6	Given a findAndModify scenario where another operation is run concurrently, identify the output and how the database changed state.
2.7	Given a scenario where a document should be deleted from the database, identify the delete expression that should be used.
2.8	Given a scenario where a single document should be looked up by a simple equality constraint (eg {x: 3}), identify the expression that should be used.
2.9	Identify documents matched by a query with an equality constraint on an array field.
2.10	Identify documents matched by an expression with relational operators in it.
2.11	Identify documents matched by an expression with $in.
2.12	Identify documents matched by an $elemMatch expression.
2.13	Identify documents matched by an expression that has several logical operators.
2.14	Given a query with a sort and limit, identify the correct output.
2.15	Identify the incorrect projection among a set of expressions.
2.16	Identify how to get all results from a cursor.
2.17	Identify the expressions used to count the number of documents matching a query.
2.18	Given an indexing scenario, identify the correct command for defining a search index.
2.19	Given a scenario, identify the correct search query.
2.20	Given an aggregation expression using $match, $group, identify the correct output.
2.21	Given an aggregation expression using $lookup, identify the correct output.
2.22	Given an aggregation expression using $out, identify the correct output.
Section 3: INDEXES (17%)	
3.1	Given a query that is performing a collection scan, identify which index would improve the performance of this query.
3.2	Given a query that is performing a collection scan on an equality match on an array field, identify which index would improve the performance of this query.
3.3	Given a query with no constraint and a sort of two fields that is doing collection scan, identify which index would improve the performance of this query.
3.4	Given a collection, identify how many indexes exist for that collection.

3.5	Identify the trade-offs of using indexes and the ramifications of deleting indexes support queries
3.6	Identify the explain plan outputs that signify a potential performance issue, specifically whether an index is present or not for the given query.
Section 4: DATA MODELING (4%)	
4.1	Given a scenario with three collections (a parent and two children) and the user, identify the embedded relationships and which should be linked.
4.2	Identify data model examples that are considered an anti-pattern.
Section 5: TOOLS AND TOOLING (2%)	
5.1	Given a scenario to load Atlas Sample Dataset and then use Data Explorer to use it to find a given first document in a collection
***Section 6: DRIVERS (18%)**	
6.1	Define what the XX driver is?
6.2	Define how the XX application connects/uses the XXX driver?
6.3	Define the components of the URI string used by MongoClient to connect the driver to the database.
6.4	Identify what connection pooling is in terms of the driver and what advantages it offers.
6.5	Identify the correct syntax for the XX driver to insert one document and to insert many documents.
6.6	Identify the correct syntax for the XX driver to update one document and to update many documents.
6.7	Identify the correct syntax for the XX driver to delete one document and to delete many documents.
6.8	Identify the correct syntax for the XX driver to find many documents and to find one document.
6.9	Identify the correct syntax for the XX driver to create an aggregation pipeline.
6.10	Identify the different syntax for the XX driver when using the MongoDB Query Language (MQL) and when using the Aggregation Framework.

**The MongoDB Associate Developer exam is offered in multiple programming languages. Although they all share a common set of core questions, Section 6 - Drivers, will be presented according to the programming language selected during registration.*

Maintaining Certifications

Currently, MongoDB certifications do not expire and are governed by MongoDB product versioning.

Support

MongoDB Program Support

You can learn more about the testing experience and our program guidelines in the MongoDB Certification Program Guide. If you need to reach the MongoDB certification team, send us a ticket and we'll get back to you ASAP! Submit a support ticket.

Examity Online Proctor Support

If you're having trouble scheduling an exam or connecting with your proctor, or if you get disconnected during your exam, please contact our testing provider using one of these methods:
Webform
Email
Phone:
U.S.: +1 855-392-6489
England: +44 800 086 8080
Ireland: +353 1800 832 210
Australia: +61 2 8520 3169
India: +91 000 80091 91077

Credly Badging Support

If you're looking for help with a badge you've earned, please visit the Credly Help Center.