	Assignment B2
_	Problem Statement: Design and develop MongoDB Queries using CRUD operations.
	(Use CRUD operations, SAVE method and logical operators)
	Learning Objectives:
_	To understand and implement the CRUD operations in MongoDB
	Learning Outcomes: The students will be able to:
_	1. Implement the commands on two tier
_	2. Implement the Database in MongoDB
	Software and Hardware Requirements:
_	MongoDB CLI, Linux based OS
	Concept Related Theory:
	Mongo DB:
_	MongoDB is a cross-platform, document oriented database that provides, high
_	performance, high availability, and easy scalability. MongoDB works on concept o
	collection and document. A single MongoDB server typically has multiple database
	Collection
_	Collection is a group of MongoDB documents. It is the equivalent of an RDBM
_	table. A collection exists within a single database. Collections do not enforce a
	schema. Documents within a collection can have different fields. Typically, all
_	documents in a collection are of similar or related purpose.
	Document
	A document is a set of key-value pairs. Documents have dynamic schema. Dynam
	schema means that documents in the same collection do not need to have the

set of fields or structure, and common fields in a collection's documents may hold
different types of data.
Sample Document
{
_id: ObjectId(),
title: 'MongoDB overview',
description: 'Mongo is NoSQL DB',
likes: 100
}
_id is a 12 bytes hexadecimal number which assures the uniqueness of every
document. You can provide _id while inserting the document. If you didn't provide
then MongoDB provide a unique id for every document. These 12 bytes first 4
bytes for the current timestamp, next 3 bytes for machine id, next 2 bytes for
process id of mongodb server and remaining 3 bytes are simple incremental value.
Advantages of MongoDB over RDBMS
1. Schema less : MongoDB is document database in which one collection holds
different documents. Number of fields, content and size of the document can differ
from one document to another.
2. Structure of a single object is clear
3. No complex joins
4. Deep query-ability. MongoDB supports dynamic queries on documents using a
document-based query language that's nearly as powerful as SQL
5. Tuning
6. Ease of scale-out: MongoDB is easy to scale
7. Conversion / mapping of application objects to database objects not needed
8. Uses internal memory for storing the (windowed) working set, enabling faster
access of data.
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Logical Query Operators
1. \$or - Joins query clauses with a logical OR and returns all documents that
match the conditions of any clause
2. \$and - Joins query clauses with a logical AND and returns all documents that
match the conditions of all clauses.
3. \$not - Joins query clauses with a logical NOR and returns all documents that
fail to match any clause
Syntax: {
4. \$not - Returns all documents that do not match the query expression
Syntax: { \$not: { <expr> } }</expr>
Conclusion:
Thus, we implemented various CRUD operations using logical operators and save
method in MongoDB.