SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul – 624 002

Department of Computer Science and Engineering

Value Added Course Summary 2021-2022

Course Name: "Mongo DB"

Course Duration: 70 hours

Year Offered: 2021-2022

Course Instructors: Ms. N. Padma Priya, Assistant Professor/CSE

Ms. A. Priyanka, Assistant Professor/CSE

Course Outcome:

On completion of the course, students will be able to develop expertise writing Java and NodeJS applications using MongoDB Master the skills of replication and sharding of data in MongoDB to optimise read/write performance and perform installation, configuration, and maintenance of the MongoDB environment Get hands-on experience creating and managing different types of indexes in MongoDB for query execution .

Course Type: Self Framed/Collaboration with Industry

Assessment Mode

Attendance: 70 hours

Number of Participants: 56

Scheme of Exam: MCQ Assessments

Course Co-ordinator

HoD

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal
SSM Institute of Engineering and Technology
Kunnatti Village Sindalagunt
Road Dindigul

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai & Accredited by NAAC)

Dindigul-Palani Highway, Dindigul

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

23.04.2022

CIRCULAR

The Department of CSE has planned to conduct a **Technology Training** for **III year - CSE** students on **"Mongo DB"** from **25.04.2022 to 06.05.2022** (09:00 a.m. to 03:00 p.m.) at CSE lab II. Resource Person **Mr.Amjath Ibrahim, Infrastructre Architect, IBM** is going to handle this training session. All our third year students are expected to attend this training without fail.

Faculty In-charge	**HoD/CSE**	**Principal**
(Ms.N.Padmapriya,AP/CSE	(Dr.V.Shunmughavel)	(Dr.D.Senthil Kumaran)
Ms.A.Priyanka,AP/CSE)		

Dr.D.SENTHIL KUMARAN M.E.,Ph.D (NUS)
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul-624 002

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
DINDIGUL – PALANI HIGHWAY, DINDIGUL – 624 002

TECHNOLOGY TRAINING ON MONGO DB
FOR III YEAR CSE

25/04/2022 TO 06/05/2022

VENUE
CSE LAB II

HOST
MR. AMJED IBRAHIM , IBM

HOD / CSE
DR.V.SHANMUGAVEL

SSM Institute of Engineering and Technology DINDIGUL - 624 002

Dr.D.SENTHIL KUMARAN M.E.,Ph.D.,(MUS)
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PRINCIPAL
DR.D.SENTHIL KUMARAN

From

Ms. N. Padma Priya, AP/CSE & Ms. A. Priyanka, AP/CSE,
SSM Institute of Engineering and Technology,
Dindigul – Palani Highway,
Dindigul.

04.05.2022

To

The Principal,
SSM Institute of Engineering and Technology,
Dindigul – Palani Highway,
Dindigul.

Through

The Head of the Department/CSE,
SSM Institute of Engineering and Technology,
Dindigul – Palani Highway,
Dindigul.

Respected Sir,

Sub: Requisition to provide lunch and refreshment -reg.

We wish to bring to your kind notice that a Technology Training programme is planned to be conducted for III CSE on **"MongoDB"**, from **25.04.2022** to **06.05.20222** (10 working days: 09.30 a.m. to 03.30 p.m.).

In this regard we request you to provide lunch and refreshment (FN & AN) for the trainer (1 person) at our college premises (**04.05.2022**to **06.05.2022**). We kindly request you to grant us the same.

Yours truly,

Thanking you,

4/5/22 4/5/22

Ms. N. Padma Priya, AP/CSE
Ms. A. Priyanka, AP/CSE

4/05/22

HOD/CSE

PRINCIPAL

SSM Institute of Engineering and Technology, DINDIGUL - 624 002

Dr.D.SENTHIL KUMARAN M.E., Ph.D., (NUS)
Senior Professor
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Syllabus

mongodb dba training provides a complete knowledge to handle the mongodb database administration work as independently. Mongodb is a document database which is a top most rated database in NoSQL category. It has been preferred by many customers since it has very good features like good scalability, availability and dynamic schema. The course is designed to get complete architecture knowledge and hands on experience so that candidate can directly work in real time environment.

Course Objective:

This course gives complete knowledge to administrate the mongodb database in real time environment. After taking this course you will become confident to work in real time environment and you can handle the projects and production issues independently.

Who can learn Mongodb administration?

1. Freshers
2. RDBMS DBA's (Oracle, MS-SQL, MySQl, etc)
3. IT Professionals who knows basics of any database and UNIX commands.
4. Anyone who wants to get into IT industry

Job Opportunity:

Very good opportunities are there in market for NoSQL and BigData technologies. In NoSQL especially for Mongodb there are lot of openings coming but in market only limited resources are there. So it's good to start moving on the new emerging technologies on the right time.

Syllabus:

1. Introduction to NoSQL
2. Architecture
3. CRUD Operations
4. Schema Design and Data modeling
5. Indexes
6. Administration commands
7. Replication
8. Scalability
9. Backup and Security
10. Monitoring and Other Tools

Detailed Topic coverage:

1. Introduction to NoSQL

a. Theories to be covered,

- What is NoSQL?
- Why NoSQL databases are required.
- Types of NoSQL Database
- NoSQL vs SQL Comparison
- ACID & BASE Property
- CAP Theorem
- Benefits of NoSQL databases

- Installation
- Start and Stop the mongodb process

b. Practical Session,

- Setting a linux machine in AWS cloud or VM Player.
- Installating mongodb
- Configuration
- Starting and Stopping the process
- Connecting through mongo shell

2. CRUD Operations,

- Create, Read, Update & Remove the documents
- Bulk insert operation

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- Updating multiple document
- Sorting the documents
- Limiting documents
- Filtering documents
- Dropping the collections

b. Practical Session,

- All the above topics

3. Logical and Physical Storage structure

a. Theories to be covered,

- Overview of mongodb
- Document, Collection, Databases
- JSON and BSON
- ObjectID Data type
- Journaling
- Storage Engines (WiredTiger, MMAP & In-memory)
- Capped Collection
- TTL Index

b. Practical Session,

- Creating/Dropping Database, Collection
- Understanding the storage engine
- Creating capped collection and TTL Index
- Default system collections

4. Data modeling

a. Theories to be covered,

- Dynamic Schema
- What is Data modeling?
- Embedding Document
- Reference Document

b. Practical Session,

- Schema Creation
- Storing and retrieving array of docs
- Creating embedded document

5. Indexes

a. Theories to be covered,

- Introduction to Indexing
- Types of indexes
- Creating Indexes
- Managing Indexes
- Index Rebuilding
- Explain plan

b. Practical Session,

- All the above topics

6. Standalone Database Administration

a. Theories to be covered,

- Server & Database health check
- Terminating Running Operations
- Managing the log files
- Locking & Connections
- Profiling for Performance Issues
- Changing configuration files
- Authentication and authorization
- Users and Roles
- Role based access control
- Copy and Clone database
- Troubleshooting issues
- Upgrading the database

b. Practical Session,

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- All the above topics

7. Replication

a. Theories to be covered,

- Introduction to replication
- ReplicaSet
- Automatic Failover
- ReplicaSet members
- Role of Oplog in replication
- Arbiter, Hidden, Priority and Delayed replica node
- Read and Write Concern
- Replicaset nodes health check
- Resyncing a member
- Rollbacks during failover
- Keyfile authentication

b. Practical Session,

- Building a Replicaset using keyfile authentication
- Add/Remove a node to existing Replicaset
- Changing Priority of nodes and making delayed nodes
- Resync a member of Replicaset
- Changing the Oplog size
- Replicaset health checks
- Handling rollbacks
- Checking the read, write concerns

8. Sharding

a. Theories to be covered,

- Concept of Sharding
- Sharding concept
- Shardkey and Chunks
- Choosing shardkey
- Sharding components

b. Practical Session,

- Building a sharded cluster
- Building a sharded replicaset cluster
- Sharding a collection
- Sharding health checks
- Moving chunks manually
- Managing the balancer

9. Backup and Recovery

a. Theories to be covered,

- Introduction to backups
- mongoexport/mongoimport
- mongodump/mongorestore
- Oplog backups
- LVM Backups
- Backups using MMS/Ops Manager

b. Practical Session,

- mongoexport/mongoimport
- mongodump/mongorestore

10. Monitoring and Other Tools

a. Theories to be covered,

- MMS Manager/Cloud Manager
- Ops Manager
- Mongo utility commands
- Mongo developer tools
- Mongodb Atlas

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SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Technology Training on "Mongo DB"

Academic Year : 2021-2022 (Even Semester)

Batch:2019-2023 **Year: III** **Semester: VI**

Attendance Sheet

			25.4.22		26.4.22	
			FN	AN	FN	AN
1	922119104001	AARTHICKRAJA A.P				
2	922119104002	AKASH S				
3	922119104003	AKASH V S	Akash	Akash	Akash	Akash
4	922119104004	ANANTHA NIVETHAN G R				
5	922119104005	ARAVINDHAN G				
6	922119104006	BENAZIR S				
7	922119104007	CATHERIN FREEDA F				
8	922119104008	DEVADHARSHINI S				
9	922119104009	DHANUSH KODI R				
10	922119104010	DINESHKUMAR B				
11	922119104011	DRISHYA R				
12	922119104012	GURU V				
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42	922119104044	SUJIT SUKESSH S	AB	AB		

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			25.11.22		26.11.22	
			FN	AN	FN	AN
43	922119104045	TAMIL SELVAN A				
44	922119104046	VASANTH N				
45	922119104047	VASANTHAN M P				
46	922119104048	VIGNESHWARAN V				
47	922119104049	VINO JOEL R				
48	922119104050	VISHWA BHARATHI J				
49	922119104051	YASMIN J			AB	AB
50	922119104052	YOGESH S				
51	922119104301	ASHOK KUMAR G				
52	922119104302	GURUBALAN A				
53	922119104303	RUBAN M				
54	922119104304	SUJITH R				
55	922119104501	MONICA S				
55	922119104502	ROSE MISHNA M	AB	AB	AB	AB
		No.Of Present	52	52	54	54
		No.Of Absent	4	4	2	2
		faculty Sign				

V. Suj
HoD/CSE

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42	922119104044	SUJIT SUKESSH S				

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55	922119104502	ROSE MISHNA M				
		No.Of Present	54	54	56	56
		No.Of Absent	2	2	NIL	NIL
		faculty Sign				

HoD/CSE

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		No.Of Present	54	54	55	55
		No.Of Absent	2	2	1	1
		faculty Sign				

V. Suj
HoD/CSE

SSM Institute of Engineering and Technology DINDIGUL

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Technology Training on "Mongo DB"

Academic Year : 2021-2022 (Even Semester)

Batch:2019-2023 **Year: III** **Semester: VI**

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		No.Of Present	56	56	54	54
		No.Of Absent	NIL	NIL	2	2
		faculty Sign				

V. Suj
HoD/CSE

SSM Institute of Engineering and Technology • DINDIGUL - 624 002 •

Dr.D.SENTHIL KUMARAN M.E.,Ph.D (NUS)
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul-624 002

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Technology Training on "Mongo DB"

Academic Year : 2021-2022 (Even Semester)

Batch:2019-2023 **Year: III** **Semester: VI**

Attendance Sheet

			5/5/22		06/05/22	
			FN	AN	FN	AN
1	922119104001	AARTHICKRAJA A.P	A.P	A.P	A.P	A.P
2	922119104002	AKASH S			AB	AB
3	922119104003	AKASH V S	Akash	Akash	Akash	Akash
4	922119104004	ANANTHA NIVETHAN G R	Anand	Anand.	Anand	Anand
5	922119104005	ARAVINDHAN G	G.Aravind	G.Aravind	G.Aravind	G.Aravind
6	922119104006	BENAZIR S	Benazir	Benazir	Benazir	Benazir
7	922119104007	CATHERIN FREEDA F	Freeda	Freeda	Freeda	Freeda
8	922119104008	DEVADHARSHINI S	Devadha	Devadha	Devadha	Devadha
9	922119104009	DHANUSH KODI R	R.Dhanush	D Dhanush	R. Dhanush	R. Dhanush
10	922119104010	DINESHKUMAR B	B.Dineshkumar	B.Dineshkumar	B.Dineshkumar	B.Dineshkumar
11	922119104011	DRISHYA R	Drishya	Drishya	Drishya	Drishya
12	922119104012	GURU V	Guru	Guru	Guru	Guru
13	922119104013	HEMA S	Hema	Hema	Hema	Hema
14	922119104014	JABITHA B	Jabi	Jabi	Jabi	Jabi
15	922119104015	JAYASURIYA K.S	Jayasuriya	Jayasuriya	Jayasuriya	Jayasuriya
16	922119104016	JEBARSON S	Jebarson	Jebarson	Jebarson	Jebarson
17	922119104017	JOSI ISITHOR A	Josi	Josi	Josi	Josi
18	922119104018	KUBENDHRA S	Kubendra	Kubendra	Kubendra	Kubendra
19	922119104019	LAYASHREE V	Laya	Laya	Laya	Laya
20	922119104020	MADHUMITHA M	Madhu	Madhu	Madhu	Madhu.
21	922119104023	MENAKA C	Mena	Mena	Mena	Mena
22	922119104024	MOHAMED FAZIL S	[illegible]	[illegible]	[illegible]	[illegible]
23	922119104025	NIVETHITHA S Y	Nivethitha	Nivethitha	Nivi	Nivi
24	922119104026	PERIYASAMY R	[illegible]	[illegible]	[illegible]	[illegible]
25	922119104027	PRADEESHYUVAN P	Pradeesh	Pradeesh	Pradeesh	Pradeesh
26	922119104028	PRASANNA M	[illegible]	[illegible]	[illegible]	[illegible]
27	922119104029	PRASANTH S	S.Prasanth	S.Prasanth	S.Prasanth	S.Prasanth
28	922119104030	PRAVEEN A	A. Praveen	A. Praveen	A. Praveen	A. Praveen
29	922119104031	PRITHISHIKA S	Prithi	Prithi	Prithishika	Prithishika
30	922119104032	PRIYADHARSHINI G	Priya	Priya	Priyadharshini	Priyadharshini
31	922119104033	RAMJI K	K.Ramji	K.Ramji	K.Ramji	K.Ramji
32	922119104034	RAMKUMAR N	N.Ramkumar	N. Ramkumar	N.Ramkumar	N.Ramkumar
33	922119104035	RAMPRASANTH A	A.Ramprasanth	A.Ramprasanth	A.Ramprasanth	A.Ramprasanth
34	922119104036	SAHUL HAMEED A	A.S.H	A.S.H	A.S.H	A.S.H
35	922119104037	SANJAY NARAYANAN S	[illegible]	[illegible]	[illegible]	[illegible]
36	922119104038	SANTHOSH KUMAR S	[illegible]	[illegible]	[illegible]	[illegible]
37	922119104039	SANTHOSINI K	Santhosini	Santhosini	[illegible]	[illegible]
38	922119104040	SARAVANAKUMAR G	[illegible]	[illegible]	[illegible]	[illegible]
39	922119104041	SATHEESH KUMAR G	[illegible]	[illegible]	[illegible]	[illegible]
40	922119104042	SHIFFIN PAUL J	[illegible]	[illegible]	[illegible]	[illegible]
41	922119104043	SRI VARSHINI K	[illegible]	[illegible]	[illegible]	[illegible]
42	922119104044	SUJIT SUKESSH S	[illegible]	[illegible]	[illegible]	[illegible]

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			FN	AN	FN	AN
43	922119104045	TAMIL SELVAN A				
44	922119104046	VASANTH N				
45	922119104047	VASANTHAN M P				
46	922119104048	VIGNESHWARAN V				
47	922119104049	VINO JOEL R				
48	922119104050	VISHWA BHARATHI J				
49	922119104051	YASMIN J				
50	922119104052	YOGESH S				
51	922119104301	ASHOK KUMAR G				
52	922119104302	GURUBALAN A				
53	922119104303	RUBAN M				
54	922119104304	SUJITH R				
55	922119104501	MONICA S				
55	922119104502	ROSE MISHNA M				
		No.Of Present	56	56	56	56
		No.Of Absent	NIL	NIL	NIL	NIL
		faculty Sign				

V. Suj
HoD/CSE

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Feedback Link - https://forms.gle/nUbX2JMr7b4WyTy56

Feed Back Report

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5/6/2022 11:17:50	922119104001	AARTHICKRAJA A.P	5	5	5	5	4	5	4	4	5	4	5	5	5	5	4	4	4	4	5	5	92
5/7/2022 11:27:14	922119104002	S.Akash	5	3	3	5	5	5	4	5	5	5	3	5	5	5	5	5	4	5	5	4	91
5/6/2022 11:46:41	922119104003	AKASH V S	5	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	98
5/6/2022 13:47:54	922119104004	ANANTHA NIVETHAN	5	4	4	4	4	4	3	4	5	5	5	5	5	5	5	5	5	5	5	5	92
5/6/2022 14:00:14	922119104005	Aravindhan.G	5	3	4	5	5	5	5	3	4	4	5	5	5	5	5	5	5	5	5	5	93
5/6/2022 11:21:20	922119104006	BENAZIR S	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 13:48:16	922119104007	CATHERIN FREEDA F	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 13:47:26	922119104008	DEVADHARSHINI S	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 11:45:22	922119104009	Dhanush Kodi. R	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 11:23:46	922119104010	Dineshkumar. B	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 13:48:33	922119104011	DRISHYA R	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5	5	5	99
5/6/2022 13:46:57	922119104012	Guru v	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 13:46:33	922119104013	S.Hema	5	5	5	5	5	5	4	5	5	5	5	5	4	3	5	5	5	5	5	5	98
5/6/2022 11:27:06	922119104014	Jabitha.B	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	98
5/6/2022 11:17:59	922119104015	Jayasuriya K.S	5	4	4	4	4	4	4	5	5	5	5	5	4	4	5	4	4	4	4	4	87
5/6/2022 13:47:10	922119104016	JEBARSON S	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 13:48:14	922119104017	Josi Isithor A	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 13:47:21	922119104018	kubendhra S	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 13:49:24	922119104019	Layashree V	5	5	5	5	5	5	5	4	5	5	5	5	5	5	5	5	5	5	5	5	99
5/6/2022 18:40:11	922119104020	M.Madhumitha	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 11:29:11	922119104023	Menaka.c	5	4	5	5	5	5	5	5	5	5	5	5	5	5	4	5	4	5	5	5	97
5/6/2022 16:48:25	922119104024	MOHAMED FAZIL S	5	5	5	2	4	5	4	4	5	5	5	5	5	4	4	5	5	5	5	5	92
5/6/2022 12:06:27	922119104025	S.Y.Nivethitha	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 11:15:28	922119104026	Periyasamy R	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 13:48:52	922119104027	Pradeeshyuvan.p	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/7/2022 11:57:18	922119104028	Prasanna	4	4	4	4	4	5	3	3	4	4	3	2	3	3	4	4	4	3	4	4	73
5/6/2022 14:00:42	922119104029	prasanth	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/7/2022 13:40:23	922119104030	Praveen A	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 11:26:15	922119104031	S.Prithishika	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 11:25:40	922119104032	PRIYA DHARSHINI G	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 13:48:03	922119104033	K.Ramji	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 11:45:44	922119104034	N.Ramkumar	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/7/2022 13:46:46	922119104035	A. Ramprasanth	2	3	2	2	3	2	3	2	3	4	3	1	3	4	2	3	4	1	2	2	50
5/7/2022 11:25:43	922119104036	A.sahul hameed	5	5	5	5	5	5	4	5	5	5	4	5	5	5	5	5	5	5	5	5	98

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/6/2022 13:48:22	922119104037	Sanjay Narayanan S	5	5	4	4	4	4	5	4	4	5	5	5	4	5	4	4	4	5	4	5	89
5/6/2022 11:26:34	922119104038	SanthoshKumar	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 11:25:26	922119104039	K.Santhosini	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 11:52:17	922119104040	Saravanakumar. G	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/7/2022 12:14:01	922119104041	Satheeshkumar G	4	3	3	4	4	4	4	3	4	5	4	4	5	4	3	5	5	4	4	5	81
5/6/2022 13:47:16	922119104042	J. Shiffin paul	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 11:26:40	922119104043	Sri Varshini K	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 11:27:18	922119104044	Sujit sukessh.S	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 11:29:24	922119104045	A.Tamil selvan.	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 11:27:42	922119104046	Vasanth N	4	4	3	4	4	4	4	5	5	5	4	5	4	5	5	4	4	4	5	4	86
5/6/2022 11:22:12	922119104047	M.P.VASANTHAN	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5	99
5/6/2022 13:47:13	922119104048	Vigneshwaran V	5	5	5	5	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	98
5/7/2022 13:43:20	922119104049	R.Vino Joel	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 11:25:32	922119104050	VISHWA BHARATHI J	5	5	5	5	4	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	98
5/6/2022 11:27:08	922119104051	Yasmin. J	5	5	5	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	99
5/6/2022 11:28:01	922119104052	YOGESH S	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 11:44:53	922119104301	Ashok kumar G	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 11:44:48	922119104302	GURUBALAN A	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5/6/2022 13:47:39	922119104303	Ruban M	5	4	4	4	5	5	4	5	5	4	4	5	5	2	4	4	4	4	4	4	85
5/7/2022 12:27:03	922119104304	Sujith.R	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	1	1	4	5	5	91
5/6/2022 11:31:33	922119104501	Monica S	5	4	4	4	5	5	4	4	5	4	5	5	4	4	5	4	4	4	4	5	88
5/7/2022 13:43:36	922119104502	ROSEMISHNA M	4	4	4	4	4	4	4	5	5	5	5	5	5	4	4	4	4	4	4	4	86
		Average	4.9	4.7	4.7	4.7	4.8	4.8	4.7	4.7	4.9	4.9	4.8	4.9	4.8	4.8	4.8	4.7	4.7	4.8	4.8	4.8	

Faculty Co-Ordinators

HoD/CSE

Principal

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Dindigul – Palani Highway, Dindigul – 624 002

Department of Computer Science and Engineering

Value Added Course (2021-2022)

Technology Training on MONGO DB for Third Year

Assessment Questions **Total: 10**

1. **Amongst which of the following is / are true about MongoDB?**

   A. MongoDB is a cross-platform database
   B. Document oriented database
   C. High performance database
   D. All of the mentioned above

2. **A record in MongoDB is a ___.**

   A. Document
   B. Table
   C. Application
   D. None of the mentioned above

3. **MongoDB stores documents in ___.**

   A. Store
   B. Collections
   C. Indexes
   D. None of the mentioned above

4. **Amongst which of the following is / are the client and user authentication mechanisms in MongoDB.**

   A. SCRAM-SHA-1
   B. MongoDB Challenge and Response (MONGODB-CR)
   C. Both A. and B.
   D. None of the mentioned above

5. **Keyfile and X.509 are the internal authentication mechanisms in MongoDB.**

   A. True
   B. False

6. **Cursor is a pointer to the result set of a ___.**

   A. Query
   B. Table
   C. Dataset
   D. None of the mentioned above

7. **MongoDB supports searching by ___.**

   A. Field
   B. Range queries

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C. Regular expression searches
D. All of the mentioned above

8. **Indexes can be created to improve the performance of searches within ___.**

A. MongoDB
B. NoSQL
C. Both A. and B.
D. None of the mentioned above

9. **In MongoDB, db.dropDatabase () is used for ___.**

A. Dropping Databases
B. Creating a Collection
C. Database Creation
D. None of the mentioned above

10. **The below example can be used to create a collection to store the ___.**

```
db.Employee.insert
(
  {
    ...
    ...
  }
)
```

A. Employee records
B. Students record
C. Product records
D. All of the mentioned above

Faculty Co-Ordinators HoD/CSE Principal

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9

PERIYASAMY R

III CSE

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Ruban N
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   B. Document oriented database
   C. High performance database
   D. All of the mentioned above

10/10

2. **A record in MongoDB is a ___.**

   A. Document
   B. Table
   C. Application
   D. None of the mentioned above

3. **MongoDB stores documents in ___.**

   A. Store
   B. Collections
   C. Indexes
   D. None of the mentioned above

4. **Amongst which of the following is / are the client and user authentication mechanisms in MongoDB.**

   A. SCRAM-SHA-1
   B. MongoDB Challenge and Response (MONGODB-CR)
   C. Both A. and B.
   D. None of the mentioned above

5. **Keyfile and X.509 are the internal authentication mechanisms in MongoDB.**

   A. True
   B. False

6. **Cursor is a pointer to the result set of a ___.**

   A. Query
   B. Table
   C. Dataset
   D. None of the mentioned above

7. **MongoDB supports searching by ___.**

   A. Field
   B. Range queries

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C. Regular expression searches
D. All of the mentioned above

8. Indexes can be created to improve the performance of searches within ___.

A. MongoDB
B. NoSQL
C. Both A. and B.
D. None of the mentioned above

9. In MongoDB, db.dropDatabase () is used for ___.

A. Dropping Databases
B. Creating a Collection
C. Database Creation
D. None of the mentioned above

10. The below example can be used to create a collection to store the ___.

```
db.Employee.insert
(
  {
    ...
    ...
  }
)
```

A. Employee records
B. Students record
C. Product records
D. All of the mentioned above

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MONIGA S

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Dindigul – Palani Highway, Dindigul – 624 002

Department of Computer Science and Engineering

Value Added Course (2021-2022)

Technology Training on MONGO DB for Third Year

Assessment Questions **Total: 10**

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VAC ASSESSMENT REPORT(21-22)			
II YEAR			
S.NO.	Name List(II YEAR)	TOTAL MARKS	ASSESSMENT MARKS
1	AARTHICKRAJA A.P	10	09
2	AKASH S	10	10
3	AKASH V S	10	10
4	ANANTHA NIVETHAN G R	10	10
5	ARAVINDHAN G	10	10
6	BENAZIR S	10	09
7	CATHERIN FREEDA F	10	08
8	DEVADHARSHINI S	10	09
9	DHANUSH KODI R	10	09
10	DINESHKUMAR B	10	09
11	DRISHYA R	10	10
12	GURU V	10	08
13	HEMA S	10	09
14	JABITHA B	10	09
15	JAYASURIYA K.S	10	10
16	JEBARSON S	10	09
17	JOSI ISITHOR A	10	10
18	KUBENDHRA S	10	10
19	LAYASHREE V	10	10
20	MADHUMITHA M	10	10
21	MENAKA C	10	10
22	MOHAMED FAZIL S	10	10
23	NIVETHITHA S Y	10	10
24	PERIYASAMY R	10	09
25	PRADEESHYUVAN P	10	09
26	PRASANNA M	10	09
27	PRASANTH S	10	09
28	PRAVEEN A	10	10
29	PRITHISHIKA S	10	10
30	PRIYADHARSHINI G	10	10
31	RAMJI K	10	09
32	RAMKUMAR N	10	10
33	RAMPRASANTH A	10	09
34	SAHUL HAMEED A	10	10
35	SANJAY NARAYANAN S	10	09
36	SANTHOSH KUMAR S	10	10
37	SANTHOSINI K	10	10
38	SARAVANAKUMAR G	10	10

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39	SHIFFIN PAUL J	10	10
40	SRI VARSHINI K	10	10
41	SUJIT SUKESSH S	10	10
42	TAMIL SELVAN A	10	10
43	VASANTH N	10	09
44	VASANTHAN M P	10	09
45	VISHWA BHARATHI J	10	08
46	YASMIN J	10	08
47	YOGESH S	10	10
48	ASHOK KUMAR G	10	10
49	GURUBALAN A	10	10
50	RUBAN M	10	10
51	SUJITH R	10	10
52	MONICA S	10	09

Faculty Co-Ordinators

HoD/CSE

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CERTIFICATE OF PARTICIPATION

This is to Certify that Mr/~~Ms~~ R. SUJITH of III CSE has actively participated in **"Two Weeks Training Program on MongoDB"** organised by the Department of Computer Science and Engineering from 25.04.2022 to 06.05.2022.

TRAINER	FACULTY COORDINATOR	HOD/CSE	PRINCIPAL
AMJATH, IBM	Ms. N. PADMA PRIYA Mrs. A. PRIYANKA	DR. V. SHUNMUGHAVEL	DR. D. SENTHIL KUMARAN

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TRAINER
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FACULTY COORDINATOR
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