Page No.
Date
· ·· REPRESENTATION
0/100 115
dle renderek
utilistation
1 Database: Mango DB
No Company to
pase with suitable
iplement Study of
uan DB (trutalistian
ngo DB (trustaliation,
10 tratardues
1 D William
SQL Database
& with CRUD operation
ation and administrative
Engunders!
a surrah A
etup of Mongoob
se il nongobs
uois and administration
J Barriage
heard chiral ou
c: pd bebreast
bit), enter is processes,
Let a College

Teacher's Sign .: .

Assignment - BI

Date of completion: 19-10-2020

Date of Subminion: 26-10-2020

Title: Study of Open Source NOSO

· Problem Statement: Juplement; datal

Learning Objectives:

rommands of jungo DB.

Open Source Nosqu' Database: 40

- Understand the concept of No

- Understand the bourd moral

\* Learning Outcomes:

commande in mongods.

1/0 penus

- Postorm installation and s

- sulplement ation of platabo

Software & Hardware Requirement

Mango DB 414 Windows 10 64.

That said that a series and

- Perform basic callo opera

Basic CRUD Operation, Executi

Theory: MongoDB:

Mongo DB is a cross platform, slocument miented databouse that provides, high performance, high availability and easily scalability, it is a Nosqu data base works on concept of collection and document. A ringle rongood berner typically has multiple documents databases.

Collection: 9 appears : sendand 1996 et & a group of Mongo DB documents. It is equivalent of an DROBMS table. A collection exists within a I single database. It stonet whorce a schina Somments within a collection can have different fields. Typically all documents in a collected are of similar or related purpose. es como ands of previac

Document:

A document is a set of key value pair. Documents have dynamic schema ie, that Joanunts in the same pollection almost need to have the same as set of fields a structure. Every document is uniquely identified by a key I'd' which is a 12 byte hexadecimal number by default if not explicitly provided by user these 12 bythe consists of first 4 by tes of current time stomp, next 3 by tis log machine id next 2 bytes of process id and 3 bytes of are simple informental value

	Page No.  Date
	Advantages of MongoDB ones RDBMS
1	I dehema less D
i	I Structure of a single object is new defined
0	1) No complex Djoins
Si	Ease of scauling
V	) conversion of la objects into relational models is not
111	required
M	Deep guny ability
	' '
	CRUD Operations .
1	Create: 19- 18 1112 1014- his must be seen the
	ab collection insert ()
	Syntaa: db collection Prisert ( <doc>)</doc>
1	Consumption & I wishing and will and a little
	db. collection. nisert ([(doc17, (doc27;])
	eq:
10	db. collection insert (T
	} hame: " Varun", Age: 20 }
	{ name: " Varun", Age: 20 }, { name: " Tejas", }
2 11	Jan Land Margue Company
	insertane ()
	syntax:
	db. sollection. insertone (2 document)
	unitary waste with opening the language is .
_	
14	syntax: db: collection misest Mary ([(doc1), (doc2),]
	"Land" 1. punta Caranana ? 1 yahan mana da : es
-	

Teacher's Sign .: \_

	Page No.  Date
0	retoreve:
	- Pind()
	Selects slowment & in a courton or new and returns
	Relects slowment of in a courton or view and returns
1	100
-	db morse find (2id: 6) // returns all abouments in collection de morse find (2id: 6) // return aboument with 1d=6.
-	ab morre find (2id: 6) 1/ octorn aboument with 1d=6. morre
_	
-	findence : 210/10000 0000.
	Seturis one aboundent that satisfies the specified
	entena en doument or view 4 multiple dounders
-	satisfy, this mothed neturns first passument
	dyntax! ab collection fuidone (< guern document)
14	the reflections with [ (color), color) da
11	) Hodate:
	documents in concertions document as or
	syntal de collection update!
-	¿ query, «spaate), Eupsert: (boolean), multisboolean
	C 1 MO TIME.
	Upsert:
	when apport is set to true.
	- if abouncent (s) match the query performs an
0	updati
	if abannest matches the query doest not
	en: dh: morae undati I s moraer matina " "anna"
	eg: db. movie. update ( & movies rating: "good", {"-id: 10, name: "varun", movies rating: "good" }
	¿upsent: true ¿
	Teacher's Sign.:

	Date Date
	document within the
-	Updatebnel): updates single accordence
10	Updaternel): updates single document within the collection based on the filter.  Syntax:
	abrollection Updatione { ¿filtes 7, ¿updati?,
	Eupsut: < true/ false>}
(3 17)	Takas den Johnsons verme sik mis har t
1	King St Secons? Science I suit ? mind
	spartenary (): updates all documents that match the
	specified fetter for a collection
	dyntax:
	ab collection updatemany (  Stilles > < update > , { upsert : < true   faise > }
	15 (2) Henry - Courses > 2 : tort 2 : cotrue
· Pr	Delett:
	- removel): removes the document from a collection.
	dyntaa: db: collection remove (< query?, spiretone)
bush	early mucho do state may algund promisely
	db morie ternone ({ age: { \$ It : 25 } })
	db. remove ({}) 11 removes all documents
•	of the administrated ( 3 eventually the pa
-	Query operators in MongoDB:
	Commismismismismismismismismismismismismis
	seq: matches the values that are equal to a specified value syntax { cfield >: { seq: < raller } }
	syntax 2 cfiela 7: 2 seq : ~ mule 7 }
	bu walled walls
	\$1t: mother value that all less than a specified value syntax: { <field>: { It! &lt; ralle &gt; }}</field>
	syntax: 3 < treat: 3 (treat: 5)
	stat: matches walke that are a specified walker
	syntax: { < fleld >: { fgt : < raine 72? .
	Adding. I don't start st
	Tools of C

Page No.

Page ?	Vo.		
Date			

o logical: Sportax: { \$ and : [ {<exp17} }, {<exp27}, -- {corp n}]] for: joins the query expressions with logical or syntax; & for: [ {<enp17}, --- {<enp17}]} snot: inverts the effect of garry expression dyntan: { Inot: S< speratord - expression? }} - db admir command (): Admir estration commands Create User: method to enate a user named "Africe" with the 'dbowner' role on the 'adminidatabase' eg: db. adminCommound (} creatiliser: "Alice", prod: "Alice123" paisword prompt ()
orles: Eftole: "abowner", db: "admin"?]. · Dropuleu: de disposer ( " wesname") create/switch batabase we & database-name}

	Tage To.					
	Date					
	Drop database:					
	use sdatabase name?					
	db. disportabase();					
	do create conection (" collection name")					
	ab createcollection ( collection)					
-	Dan counting I am					
-	Drop collection 1?: db. < collection name> deopl)					
-						
•	show commands // server level					
	show dbs;					
	Then users;					
	show ooles					
	use < database name>					
	show collections;					
1	Conclusion:					
-	We computed the study of Mongo DB database					
	along with installation of hongobs database ronsland					
	4.401 and implemented bash CRUD operations on					
	we computed the study of mongo DB database along with installation of mongo DB database rows ion along with installation of mongo DB database rows ion a sample database and collection.					
	Treatment of					