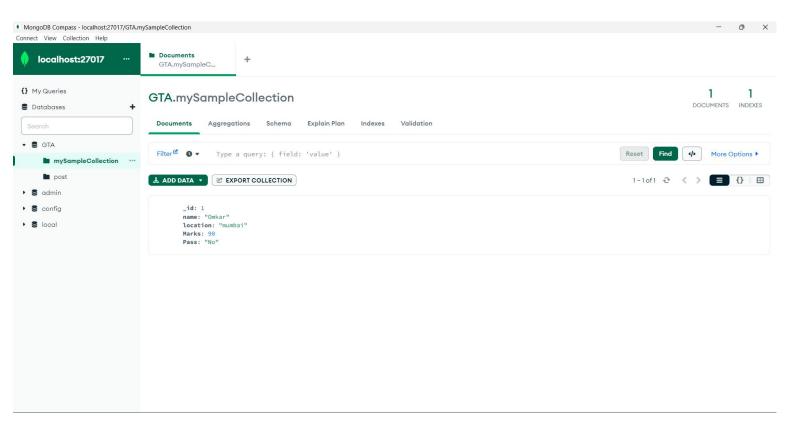
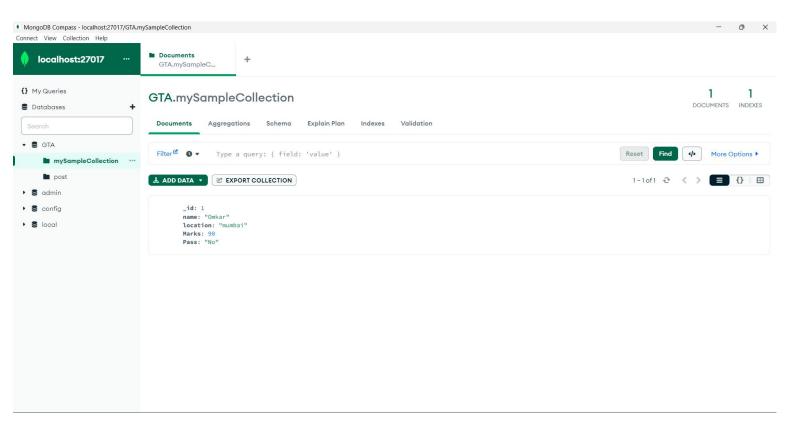


## **MongoDB Compass (Local)**



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	THE RESERVE OF THE PARTY OF THE
	Athania Proshoent Powers (9427) - [Batch-D]
	BDA EXP 4
01	
Q1.	Destine what Ps block Po HDFS?
5)	
	Block Por HDFs:
4 100	1 2 4
	HDFs (Hadoop Mestributed file system) is the
0	primary storage system wed in Hadoop for
0.7	storing large datasets accross a cluster of
	machines.
_	
	HDFS divides fiks forto smaller units known as
	blocks, to facilitate efficient storage & processing.
	some will not be to be about the second as an all the second as a
day ,	Blocks are the fundamental storage unit in HDFS,
	& their size is typically, set to 128 TAB or 256 tAB,
	although It can be configured.
	basical restated because and at
45.772- 4.10	Unlike traditional fik system that might store a
The second	the as a whole, HDFS breaks tiles forto fixed-size
and the state	blocks for several readons.
	Michael mob as Characterist sit any
02.	Why is a block for HDPs so large?
	FARicient Disk I/O:
	larger blocks result in temer metadastre operations
and a	Like opening / closing tiles) per unit or data, reducing
-	mierbead.
	Reading or writing a large block at once improves disk
	T/o officiency compared to smaller chunks.
8	
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	DATE:
	the second of th
R.	Reduced NIW overshead:
	Notes transfer Provolves now communication blw Datanoals
	& clients. Larger blocks amostize the new overhead over
CH T	more data, improving efficiency.
	Smaller blocks might result in a higher perscentage of
	averbead due to socilient data transfer initiation
C.	Optimal for Sequential Access:
	HDFs Ps designed for applications with large tiles &
	mostly sequential access patterns.
	Larger blocks suit this design by allowing for
	continuous reading / writing of data, reducing seek
991 42	time & Pontosoving throughpiet.
D.	Minimized Metadata Overhead!
	HDFS Name Node maintains metadata about files,
3717.2 192	2 larger blacks mean temes the records to mainage.  Smaller blocks would kad to more metadatal entries
	for the same amount of data, Pricreasing the
	Name Node ?s load.
	paine mock s 1000.
c	Better Load Distribution!
A Control	Large blocks help distribute data uniformly accord
	DataNodes, preventing horsports where certain nodes
344	become overlanded due to small black stres.
	many to account the law market anneal the AT
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