## DBSL Assignment 02 (4804p-13)

Name: Shubham chemate Roll. No. 21118)



PICT, PUNE	State State
(your	Title: Mongops: Aggregation & Indexing
	day a straight of the straight
	Problem statement: Pesign 4 develop mongops queries
*	wing aggregation & indexing with suitable
trigge own	examples
7101	is all tot digal all in diglin all 12113
	Objectives:
- initian	Understand indexing & aggregation concept in
2113	mongo BB.
Jr 18 gt	Con a Charle of hour france of
	Soffware & hardware parkages
	Windows-10 operations system (64-kit)
	entel core is-8th gen epu, 4-core processor
	8 GB RAM, ST2 SSD memony
	mongops updated to latest version
it is	Theory related cornepts:
	and but
. kalvaup	Aggregation:
	7 This operation processes data records & returns
	computed results.
100	27 This operation group values from multiple
	downents together & con perform variety of
n marto	operations on the grouped data to return a
a) min	angle result.
50%	3> In SQL count (x) & with group by is an equivalent
bl 10 10	of mongodh aggregation.
	the second secon
	syntop:



modderit sopla

PICT, PUNE	
	db. collection none aggregate (AGGR EGATE-OPERATION)
0.0	46
2010110	Pipeline loncept:
3.10	7 In UNIX command, shell pipeline means the
	possibility to execute an operation on some input
	fuse the output as the input for the next
	command & so on.
No.	2) following are the possible stages in aggregation
	Framework:
	1) \$ project: used to silent come spentic fields
	from a collection
	1 s match: reducing of 2 combinal
	we the court is sort in the state of the second
A.W.	IN REPUBLIE OF SEPTIMENT OF SEP
	start of both actor wash
	vi> sunwind
	Alecut soluted rancests
	andexes:
	1> Indexes supports the efficient resolution of quotes
1)	as without indexes mongops must som every
	documents of a collection to select those
	downers that match the guery statement.
49 1	This is highly inefficient.
P. 1	37 Inderses are speual data smutures, that stores a
	small portion of data set in easy-to-traverse
Laborabe!	form. The index stores the value of a specific
	field @ sep of fields, ordered by value of field
	as spentied in the index
	Ph. Kolake

CERST Visignment of Resources



PICT, PUNE	
	4> the ensure Index 1) method:
	this nethod is used to create index.
	syntax:
	db. collection nove ensure Index (XKEY:13)
	key is a field on which you want to create
	unders & l is for ascending order (use I for
	descending order)
	Tellerin Collins
	Test cares l'Ordpub.
	Separate file is attached containing cocle & output
	Recenshot of performance.
	Condusion;
	Henre, I learned about aggregation 4 indexing
	In this assignment.