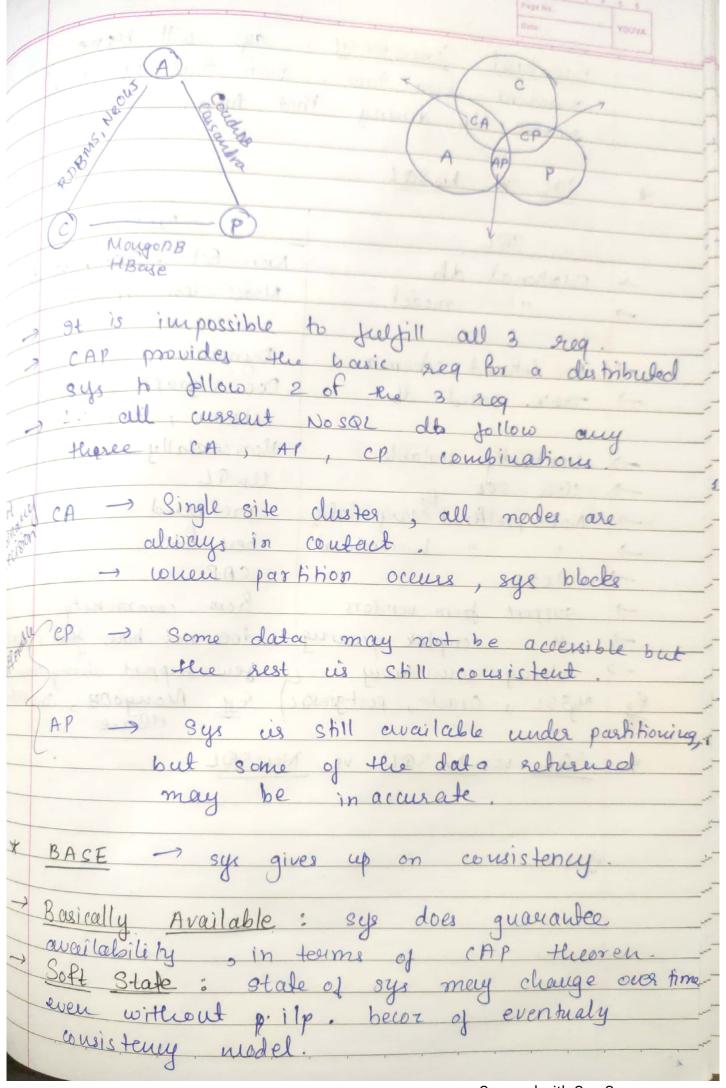
Database Categories
· Database Startel
The state of the s
OLTP/RONDING) OLAPIDSS/DW/ No SQL/Newson
OLTP/Realtime/ OLATIOSSIDE Big Data ROBMS Neterza, S'AP Hanna Big Data
ROBMS Neterra, SAP Hanna Big Data Oracle, Mysol, Oracle Express, etc. Mongo OB; Alberse
MS SQL, DB2, etc. Carsandra,
Couch DB, etc.
RDBMS to NoSQL
lippline to the lippline
-> RDBMS stores stouctured docta in rows
and columns. related to one another.
-> RDBMS follow ACIA propenties.
Homicity consistency 9 soluted Durale
-> Challenges:
1) Efficiently storing and accessing large
amounit of data is difficult, even more
2) Manipulatina laura de la 2012 à berchies.
2) Manipulating large data sets involves rumini immensely parallel processes
3) Managama and in the
data is difficult.
Rise of cloud-based solution a shift to dynamically-typed data with prequent schema changes.
- Ruse of cloud-based solution with large data to
lacount to dynamically typed data its
- Comme schenges changes
Open-source community

ROBINS not suitable for Big data g coutert is indernet RDBMS assumes that data are · Deuse · Largely vuijorm (smochered) , Dala coming from internet are . Massive & spasse · Seni - stre or Un + stry juis nise of Nosal took place. NOSQL: A collection of several (related) concepts about data storage & maripulation a A class of products it related to large data Non-relational data storage sys - No fixed table schema no joins No multi-document transactions a Relaxes one or more ACID proporties * Types of NOSQL: 1) Document Base: > pair each key with a complex ds called document - does our contain many diff key-value pairs key-areay pairs or even nested docs. Mongo DB, Couch DB, Cloudant 2) Graph store: are used to store into about networks such as Locial connections

Reg Neo45, Oracle Nosaz, HyperGraph DB

	Page No.; Date:
3) Key-value store:	24.000
- are misimplest Nosal databases	World
and the state of t	10000
obred as an attibule many or	stage is
stored as an attribute name or	rey to gethe
Les Menicached, Coherence, Redis	
- Constant of the control of the con	nld i
4) Wide Column storesult	
and antimised and average averaged	o dala
-> store columns of data together	instead of
eg Cassandra, HBase	Sicon of Ball
	10-11
CAP Theorem:	00 10
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exist in a special relation designing	app for
distributed acidi.	The state of the s
CITION	M (
- Consistency: word the during	301 (.)
-> data in old remains consistent	after
execution of openation.	
Eg After update u all client	see sameduk.
-> Availability:	and it
-> the sys is always on, no d	ocontime
the print of the print of the print	and to
- Pasition Tolesiance:	MAN
3 ys continues to in even the	commun
among the servers is unreliable	
Eg seuveres may be partitioned	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Thurst gours that cannot	(ommonia)
with each other was	65
Soonnad with Co	no Cooppor



		Date:
->	Eventual Consistency consistency one time, receive ilp during	given that sys doesn't
*	SOL VS NOSQL	
	SQL	NosaL.
	Relational db	Non-Rel, pistributed de
->	ii model	Model-less approach
	pino the life of	adizzoni si 18
1000	Pre defined schema	Dynamic schar
-	Table based db 1	Doc s'graph, wide-
-	JAZOU	column, key-value
	Vertically scalable	Honzontally
->	Not preffered large data	UnQL
-)	Not preferred large dotta	preferred best ft
-	ACID hierardical	
-)		Brom community
-)	u complex quering	J A
->	strong consistency	Jew support strong coul.
Eg	MySQL, oracle, post-gresque	leg Mongoon, cassande HBase
*	SQL VS NOSQL VS N	Jew SQL
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	proteins on pe con	ASAGE TO SACE
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