		BDI Assignment 1 DATE:
		05/05) Kareena Shah
		60004210243
		C'32
	(1)	Facebook exemplify the characteristics of Big data in the following manner:
		TOTICOTTY THAT THE TENT OF THE
		(a) Volume
0		Facebook generates an enarmous volume of data daily,
		with over 2.7 billion monthly active users generating posts
		comments, shares.
		(b) Nelocity
		Date on facebook stoleams in at a slapid pace, with users
		constantly uploading photos, videos, status updates as well
		as engaging with content
		This sequises sealitime processing to analyze & sespond
	5 .	to used activity effectively.
		(c) Variety
		Factbook data comes in various forms including text,
		image, videos, links, interaction.
		Managing this diverse range of data types requires data
4		parocessing tools & techniques
-		
		(a) Venacity
		with such a vast amount of user generated content,
		ensuring accurracy & reliability of data is crucial for
		maintaining toust: & integouity
		, , ,
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- (e) Value

 Facebook extendes value forom its data by analyzing user
 behaviour, pereferences, & interactions to personalize

 user experiences
- (2) Map Reduce is a programming model & processing techniques used to process & generate large dataset in parallel across distributed computeding clusters. It consits of a main phases
 - (1) Map
 (2) Reduce

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(3)	HBase is a distributed, column ariented database built on top of Hadoop Distributed File System (HDFS) It's schema design includes concept such as
	(a) Tables
	HBase organizes data into tables
	(b) Row Keys
	Feich you has unique key, used for date retrieval
	C) Column Families
	Columns are grouped into column families
,	(a) Columns
	Columns in HBase are not predefined.
6	
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	BDT Assignment 2	DATE:
		Koleena Shah
	05/05/21	60004210243
		032
	3-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
(1)	from pystpark. agl import Sparksession	
	spank = Spanksession.builden \	
	appName ("SpanKQL CRUD Ope	ration)
	getan (neate ()	The same of the sa
	of = spank. cheateData Frame ([1 3 7 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	(1, 'Airce', 30),	T. The
	(2, 'Boh', &O),	e V e a
)]	Creat
	df. show()	1 1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
i i	new_900 = [(4, 'David', 40)]	
	of = of union (spank. createDataFrame ["id", "name", 'age"]))	(new_slow,
		.1. 1
	df. select ("name", "age"). show()	
	of = of. with Column ("age", of ["age"]+1)	
1.1	of = of. filter (af. id !=2)	
\	af. show()	
	Spank. Stop ()	

	be in the protection of
(2)	Industry Use Cases
(-)	
	(a) Content Management Systems
4.	Storing & managing dynamic content for websites &
	blogs
	/ man de Man de la desert
	(b) Real Time Analytics
	Analysing usen behaviour & interactions fan personalized
	ecommendations
	C) TOT
	Stooling sensor data & telemetory information for
	monitoring & analysis
	(d) Mobile Applications
	Serving as backend database for mobile apps with
	offline capabilities
	(e) E-commerce Platforms
	(e) E-commerce Platforms managing product catalogs, customer probles & order
	data.
(3)	Industry Use Cases of Apache Katka
	a Real time stoiean Poiocessing
	Porocessing & analyzing storeaming data from reactions
	sources for insight

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	DATE:
	(b) Log Aggaregation
	(b) log Aggoregation Consolidating rog data forom distoributed systems for monitoring & toroubleshooting
	monitoring & troubleshooting
	7
	C) Event Sousing
	Capturing & storing event data to maintain a full history of changes
	history of changes
&	
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