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	BDT Lab Assignment-6
1	man and the same of the same of the same of
*	Puroblem istatement:
	i se servicio de la compania del compania del compania de la compania del compania
	Install House & perform CRUD operations.
	Objectives:
	- Og e choes
	1) Za lagua III and concept
	1) To learn House concept.
	2) To peryoum CRUP operations in HBase.
*	Theovy:
he we	and the second s
	Interoduction to House with its features:
	It is an open source, distruibated & escalable
	No sor database that is built on top of the Hadoop
	DFG. It is designed for handling large volumes
	of shructured & semi-structured data. Here are
	isome of its key yearwees.
	to be a second of the land of
	1) Columnar Storrage: Data is istorred in a
	columnare format for
	officient column-level access.
	to a tour the same of the same

	2) Scalability: House can scale housizontally acusose a whether cluster you handling massive
	a sheller duster you handling massive
	a arasers.
	3) Schema Hexibility: It's a schemaless, allowing
	storrage of data with varying structures in the same table.
	4) Sturong Consistency: Ensures data consistency your
	vead & write operations
	within a wingle vow.
	5) Automatic sharding: Octa is automatically
	split & distreibuted to
	balanced the work load.
	6) Hadoop Integration: seamlessly integrated with
	the Hedoop ecouyaters your
	big data applications.
	- Hbase commands:
	House commands perovides a vost of command
	- line tools & APIS your interacting with the
ç. [-	database. Here are some commonly used Hbase
yere 1	commands:
• • •	molecular and property of the second of the second
**	1) (viente table:/Use "coreale" command, specifying
	the table name & column-gramities
	e.g. cuente 'mytable', 'CFD', 'CF2'
	Landing the second of the seco
	2) Put data: To insert data in Hbase table, use
	'Put' command
	e.g. put 'mytable', 'vrowi', 'CF1: CO11', 'value 1'

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	3) Get Data: To restriciens data in Hbase table
	a get my table, 'crow'
	4) Scan Date: We can scan the entire took our the
	viange of vious.
	eng. Scan ' mytable'
-	5) Delete Data: To delete data from the table
	e.g. delete 'mytable', 'viow1', 'CFI: co11'
	6) List tables: To list all the tables in House
	eq list
	7) Disable & Delete tables:
	e.g disable my table
	delete 'mytable'
₹	Platyrorm: 64-bit open source Linux/ Windows.
*	conclusion: Hence, I learned to install House &
	perform CRUD operations.
	The state of the s
*	EAO'S CONTROL DELLE DELL
	The second three growths
(LO	State any your use cases of Hhase
Ans	1) Real time analytics: Instant data analytics you
	applications like social media monitoring &
	yrand detection.
	2) EF- time-vouves data: Efficient volovage &
	retrieval of time-series data like wensour
	readings de logs
	3) Catalogs & Recommendations: Managing pureduct
	catalogs & puroviding personalized puroduct
4	

	vue commendations in e-commerce.
	4) Click stream snalysis: Analyzing user clickstream
V	data your webisite optimization & targeted
Was	advertising.
(20)	lithat and the challenges of using HBane?
Ans	i) complexity: It can be complex to wetup & manage.
Part of the Control o	ii) Consistency & V/S Scalability.
	iii) Data Modelling: Designing Hbase data models
	demards expertise.
	iv) operational Overhead: Maintainence tasks like
	data compaction can be resource intensive
(4.6)	untal and had been all to the the to the
(US)	i) Namespace: It provides a way to organize tables
	into logical groups-
A NACES CONTRACTOR	2) Table: It is a callection of vious, each identified
	by unique yow.
	3) Columns: Contains actual data with unique
	column qualifières.
	4) Column, families: Ourganize data within tables.
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	2) Et - Home - Laries down : visiting of - 47 (2)
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	3 Service Serv
4	and produced . The management of the Section of the
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