And: Fock L FTU system there) in the willity of HDES which cheeks the oricall treath of HDES. & oprovide a detailed status scool.

Ans 2-: Outlier

Arus filtering.

Any 4: - Meyo phase in mapkedure programming tool,

Any 50 Reduce Phan.

Any 6 commudity hardward

ANST: HOFS (Hadorop DIBtributed till system).

Ans 8: Edge nodes.

Ans 9: ./sbm/start-allish is used to start all
Hadoup obsumon, such as Numeriode, DataNody
L Rusousu manager and

fether ./sbin/starp-allish commands an und for
stopping all Hadoup 'daemons'

Ans 10:- jps

Any 11. Speculative Execution.

Any 12: Data hocality.

And 13: YARN LYET Another Resource Negotiation

Any 14 Big data

Any 15: Variety characteristics of Bigdata

Any 16: Outnitillions: A team supresenting extremely dange quantities of data ( I quintillion = 1012)

Axons: Whely vigers on fo neuron-like connections in machine learning to neural networks, facilitating data processing & communications

Any 17:3 un teadoop Ecosystem consists of tools &
frameworks that support brydata stronge &
processing, core components include:

HDFS & for distributed storage

mappedure: for processing date in parallel

YARN: - for resource management

Aparli Bry, Agarli HBan, Aparli fum. Zookeeper, Aparli 00216 HOPS

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HDFS in the primary storage system. HDFS is a gard based for system that provide scalable-fault tolerance - retrubble end cost effectent clara storage of Big date. HDFS runs on commodity shardware. HDFS in already configured with default configures many installation.

Compo g'HDFS an (1) Name Nocle (1) Data Nocle, Cap Reduct. Name Mode: known a master node.

- \* does not store actual data or desare.
- estores mutadata ile no y blocks. locatron.

  which paramode itherate stored and other details.

  consist of file a directories
  - · manage file system namespece
  - · Regulate duent's races to files
  - · Execute file Bystem execution scale as naming, closing, opening tile & prectories

(11) Data Wood

- o known as slower the
- · perform operation like block replica, creation, duction it replication awarding to instruction of Name Node
- · Data Node manager data storage of system.

MapRiduu: provide data processing.

- in HDFS.
- o parallel en nature, mon very useful tos desept scale data analysis virny mautiple machines in duster.

(1) map pran (1) Pedus Pherer

YARN! providu renoure - the octourer management YARN in also one the the most important component of Hordoop ecoayston.

· called as operating system of Hadoop syponethy

+ for managing & monitoring workload.

HIVE opensource data waschouse system tos quering a analyzing large destasets stored in Hadoop files.

does 3 main function: data summarization, query and analysis.

use danguage called Hreal (Hab) similars Sal. Haz automatically translates sol-like queries noto, map Reduce, jobi v

Mane: distributed database dusigned to store structure date in tables that could have billions of mu and mourons of columns. Hearin scalable. distributed and NOSOL database that is built on top of HDPS ,

· provide aun to read or swrite data in MDFJ in real time

Apaulu 1900p: impost duta from external source into related Hadrop ecosystem component like HDF8 inban 5 Hire.

\* export data from Hadrop to external sources

. works with relational databar sulu as terudata, Netazza, oracu, mystot

Apa do

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Apache feum " collets aggrégate à nover u evelop poneut large amount of data from its origin a sending it back to HDFS. - It is fuelt volerant & retrable mechanism. merby - It allows dataflow trung course into Hadoop ecrayton ed in query Marto ük stoutured of sem de, it on 1DFJ in Dure w like