1 What is Bigdato 9 & vs ADBNS? + It is a consection of data that is huge in volume (in petablitus) & growing exponentially

Traditional - bas and these large amount * nature bes can not handle & process based on fixed schema (static in becarie:

Only works with structured data. Can not store unstructured data (movies, image sound files, documents etc.

Pey owns entry analytics on historical date Have contral sed do anchitechers.

-- Big data works on & simistructured data structured, unetructured

Has dynamic nature smostcitus, manufacturung etc. damains)
bistributed architecturu (Scalability) [Rusoux res avoilable) Heal - time

As Governer said: with lever - higher velocity Big data is data that contains greater

+ Facebook (U500+ TB data generated every DEC M(TWTFS SMTWTFS SM Companies using pux hour

コーナンと

- Bertet decision making (customes centré)

Product price optimization (optimal price)
Recommendation enquire (better online exp. (future needs) (Better online exp.) (Optimal price) (electronic device)

search, I sharing, transfer, analytic challenges include capture, storage,

2. 5 v's of Big data a. Volume : - Endemous amount of data - of the size of Petabytes

b. Velocity: - Refers to hate of generation -ed Goodle searches, FB users increasing

d. Vaxacity :- Rupers to inconsistencies & & a curracy one difficult to control. Yaniety : - Refers to diff types of data eg. Excel, SQL Images, videos | log files

e. Talle : - Rich to the value that the data MTWTFS & MTWTFS & MTWTFS & MTWTFS & JAN 30 31 · Com: 1734 & 5 H & 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 2023

DECEMBER

DAY 337-028 WEEK 49 SATURDAY

Open source extract in distributed computing while envisionment actions clusters of comme Computer (3 calab; 1° 4)

Storage of large balasets (salabilet Handling data in different formation Real - time processing an commodity nochduraken

Hipocumos no

Hault tolerant

Adde nadus on fly

Reliability Scalable - integrated with cloud-based execute in 11el giving hiban throughput bissivibuted Storage - hadrop splits each Economical - use of commodity hardware bistributed Processing - Job submitted by uses client gots obtrided into sub-tasks another mode takes the place of foiled no - if node goes down, it down

distributedly on custor of shacking

available in diff. nadu.

2022

DECEMBER 2022

DAY 338-027 WEEK 49 SUNDAY

make turning Same vades. If one ades do then the paleive NN takes active's place. bota locality - it takes computation to the data it reduces bandwidth utilization in systim 2000

* Hadoop Ecosystem 2 00216 (WOV How Table &Schem (Limphin)(HBD) (MD) (interestive AVRO This) (Madeop dist. Pilesus) chuster resource want (Data Processina) ~ やかて HDPS Screen Corners + pach HBOJE (Colum 40 Store Collection 2900 Date Tiple. (Date The

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MIW L S S MIWTFS S MIWT 5. YARN -> Nonitors & manages the resources 2. Map Reduce > bata processing companent. 5. Pig - sal like language used for querying & 4. Hurt - Lata wasuhause project which P. HDPS - Monitors resources like cou, memory etc. - Handling worksoads like stream processing, data query & analysis, on top of - Providing Robust distributed datastorque HDPS. Saprage of

DECEMBER

7. Mahout + Provides platform for creating Mc. applications which are scalable.
applications which are écalable.
8 Jookuper - command war variables
e in hadaan eloustim.
- earne time has tok synchronization, config
maintenance, grouping & naming.
- Prevents dead lock (octure when two or man
" take fight for the same resources).
a porie - It is a workflow schedular eystem
12 for managing hadoop jobs.
- supports haddop jobs for M-R, Pig, Hive,
Sq beb.
10. Sqoop > Imports data from external sources
into hadoop MDPS, HIVE, HBase.
- beals with structured as well as unstructured
1. Aume - Ingests structured & simi-structured
data into MOPS.
12. Spark > Unifier all kinds of Big data processing - Has built-in lib. for streaming, 892, NL & graph processing
- Has built-in lib. for streaming, sgr, NL &
graph processing.
6
7