

Big Data Technologies

Trainer: Mr. Nilesh Ghule.



RDD creation and partitions

RDD colation

- (1) rdd = sc. parallelize (collection)
 - unum of partitions can be given as arg. uby default orum of partitions = orum of CPU cores (in spark local[*] mode)
- 2) rdd = sc. text File (filepath)
 - rif source file path is in HDFs, then
 our of parts = num of input splits

 ~ num of HDFs blocks.
 - v if source file path is in Joed FS, then by default it creates 2 partitions for small files.
- 3 rdd = sc. whole Text Files ("dir path")

 ~ num et partitions= num et Ales

 ~ 1 file => 1 partition.

RDD caching/persistence

RDD can be cached persisted it it is needed for onwhiple achiers.

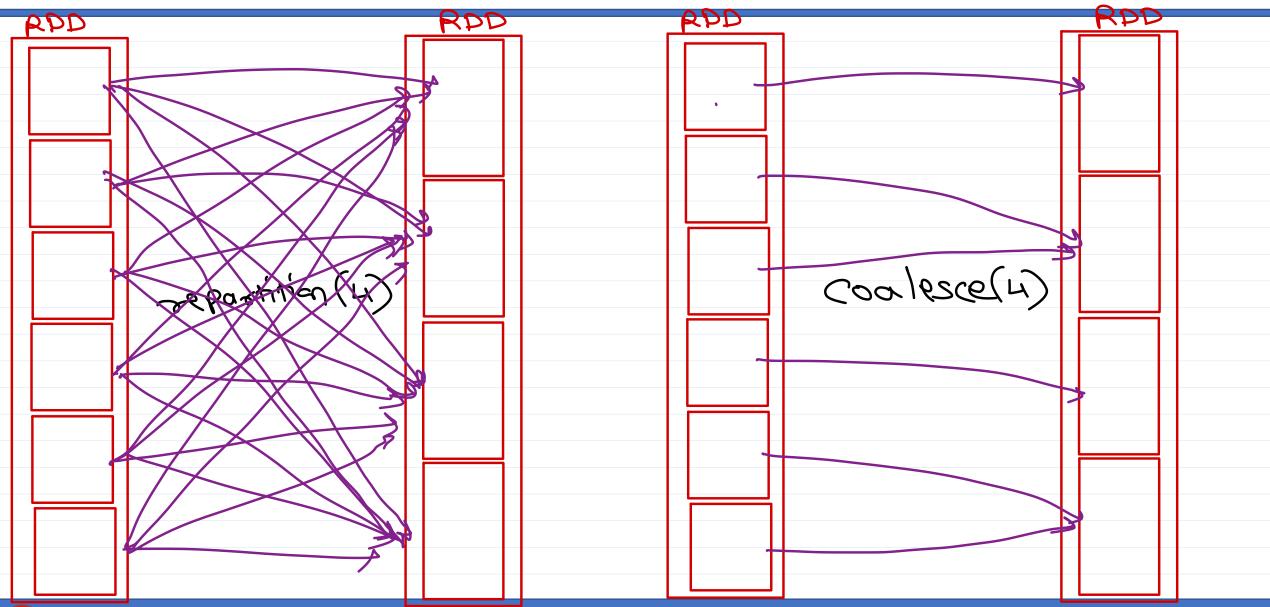
- (1) redd. cache ()

 Li Stored in renem when computed
 A out time.
- (Jash) reizag. bba (D
 - + MEMORY_ONLY -> same as cache()
 - (Compressed)
 - (if not enough mem).
 - > MEMORY_AND_DISK_SER
 - PDISK-ONLY
- 3 reggions (gire Daty)



Repartition

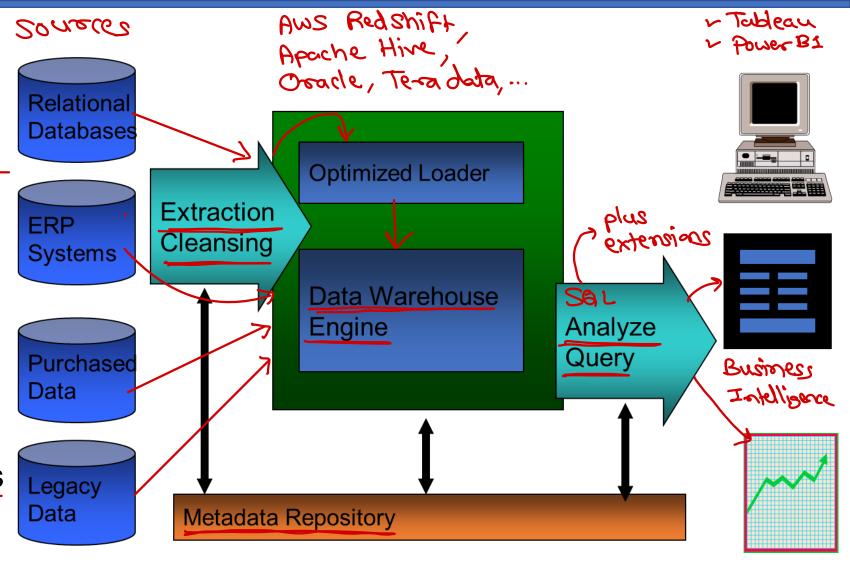
Coalesce





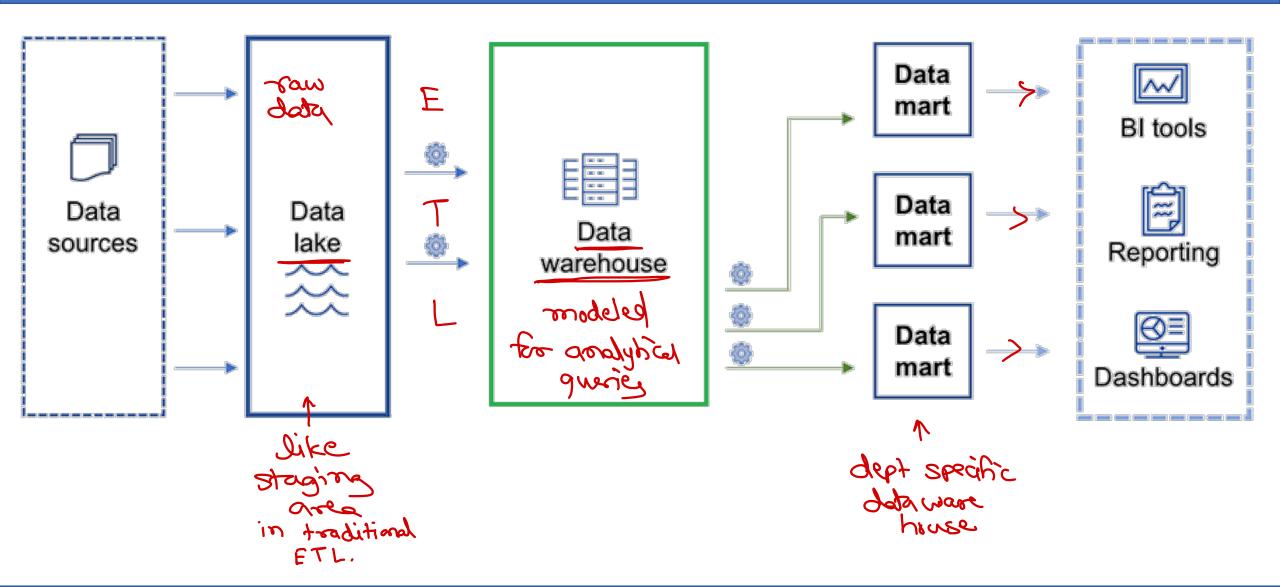
Data warehousing

- Data warehouse is a single, complete and consistent store of data obtained from a variety of different sources made available to end users in a what they can understand and use in a business context.
- Data warehousing is a process of transforming data into information and making it available to users in a timely enough manner to make a difference.



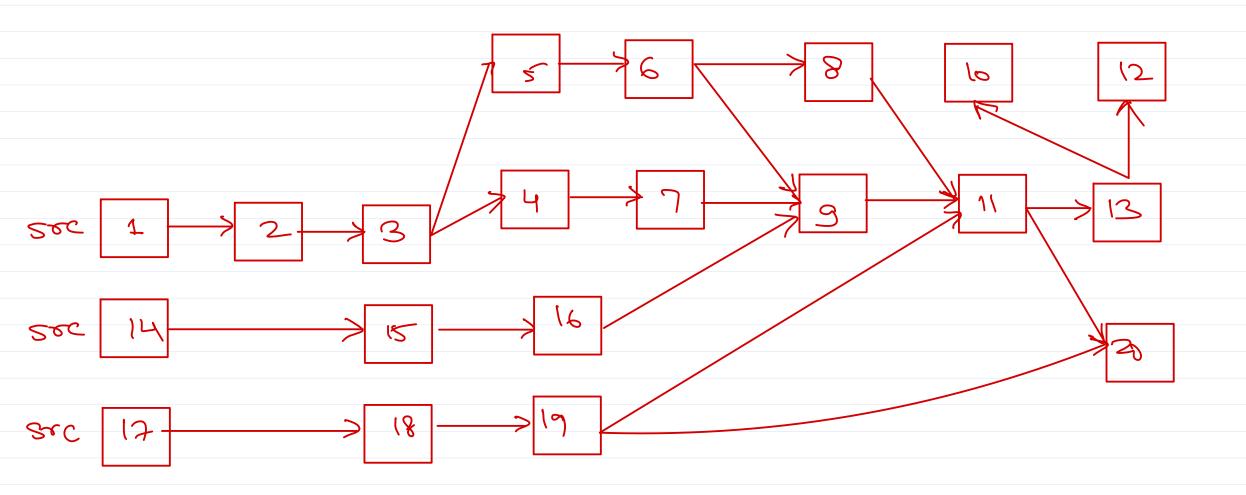


Data lake vs Data warehouse vs Data mart





Complex DAGs







Thank you!

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