CHigh Level (High land of tocking) Dataset octaset (Employee) 10 ceta sames [Dutaset (Row) cataset is of (Lowled of specific type Ocata Exames is coding) called as natural with generic type ROD Resilent Distributed paterset => Advantage of RDD(Resident Distributed octaset) 1 Type errors are caught at son time (compile type eafety 3) pevelopers have flexibility in writing code, for example anonymous furction. 3) Disaduantage of RDD, which gave both to Datatrans. Plat Map, filler etc. function. (2) ortimisation was not there 3) patawas not object in Takular format perdopers were facing usue white writing a code for migging up the loss level code

Data sames nate was stored in tubular format in the form of table tows & Columns like a RDBms table. > Advantage of Data frames over RDD Sole was written in high level construct i.e using where, group by, & elect etc function 2) in case of doctationes, since code is written in high luce construct fixat it gets converted to How level coding at driver side, compiler performes some apainisetion on it and thenit sends to executor for execution. But if we have low level code it 3 patreframes provide Optimisation Disadvantige of porter sames 1) Compile time & afely is missing, be cause of this vontine suxbrises comes 2 no fluxibility provided to pevelopisin terms of like writing anonymous function To cousthe disadvantage of the outer sames spark developes trought to convert touteframes (of) to Roch (Roda) using df. Edd but conversion was not seamles and working the aftimisation which was give by cotalyst optimisers.

20 Developer Optimised the Datas cames instead volal and converted to partaset => Datasets patasets is busically take care of compile time safety as well at the flexibility of the code, where we concasily write Low level cooling like lambde or an only mous frenchen so if we talk about naturales & naturet there is slight diff. How both of them Date & ames = Dataset (ROW) where Row is nothing but a generic type in which type white bound at vontine pataset (Employee) -> nataset octavet lowere type's bound out compile time