Tdd vs data Frame vs datasets

rold

when we deal with ridd. we deal with low level code

may filter flatmap reduceBykey

This low level code is not developer's friendly. odd lacks some of the basic optimizations.

## data Frames :-

Spank 1.3 Version

higher level constructs which make's the dwelver's like easy.

## challenges with dataframes:

- 1. DataFrames do not offer strongly typed code. type Error won't be caught at compile time rather we surprise at runtime
- 2. Developers felt that there flexibility (like to write our annymous function) has become limited.
  - There was a way that the dataFrames can be converted to rold.
    - off. odd = whenever we want more flexubility and type sabety.
- 1. This conversion From DataFrames to rold is not Seamless.
- 2. If we work with raw rdd by converting dataframe tordd. we will miss out on some of the moger oftimizations.

Data Frame.

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spark 1.6 version.

1. compile time safety

with datasets type Errors are caught at complain level.

2. We get more flexibility in terms of using lower level code.

Conversion From Datesframes to datasets is seamless. we won't lose of any of the oftmizations.

Before Spank 2 Both dataframes and datasets are 2 dutborent things.

In spank 2 they merged these 2 mits a single unibied spank dataset API (Structured API)

-> DataFrame is nothing but a Dataset[Row]

Row is nothing but a genenic type which will be bound at runtime.

In case of pataframes the datatypes are bound at runtime

however Dataset [ Employee]

the type will be bound at complile time.

Data set [Row] -> dataframe (type Error are caughtatruntime)
Data set [Employee] -> dataset (complile time type sabely)
thow to convert dataframe to a dataset?

It becomes a dataset.