



# Big Data Technologies

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# Dataframe Operations

## Dataframe Ops

### Transformations

df1  $\xrightarrow{\text{op}}$  df2

- ① groupBy().agg()
- ② select()
- ③ selectExpr()
- ④ withColumn()
- ⑤ withColumnRenamed()
- ⑥ fillna()
- ⑦ drop()
- ⑧ limit()
- ⑨ orderBy()
- ⑩ where() / filter()
- ⑪ join(), ...

### Actions

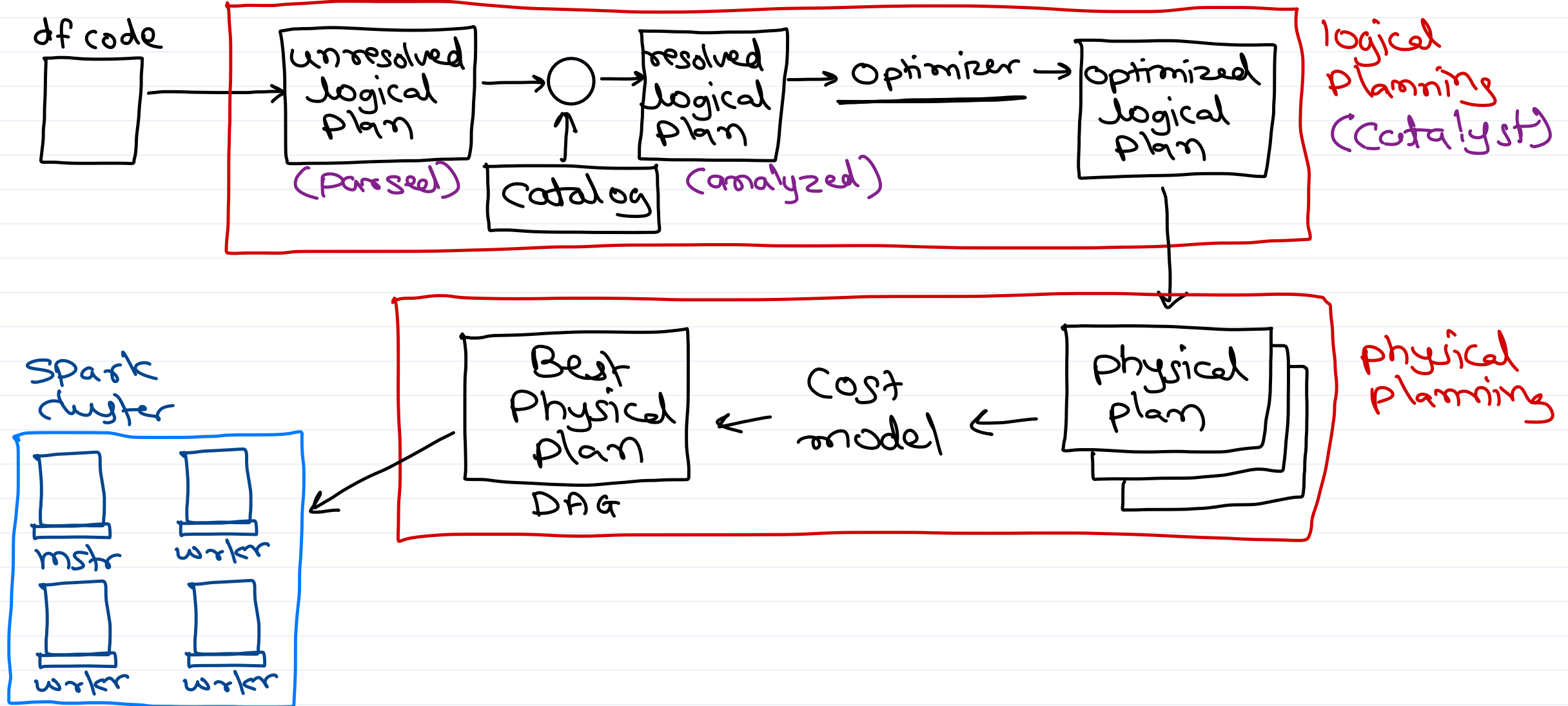
df  $\xrightarrow{\text{op}}$  res

- ① show()
- ② first()  $\rightarrow$  Row
- ③ collect()  $\rightarrow$  List<Row>
- ④ take()  $\rightarrow$  List<Row>

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- ① read.load()
  - ② write.save()



# Dataframe Execution





Thank you!

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