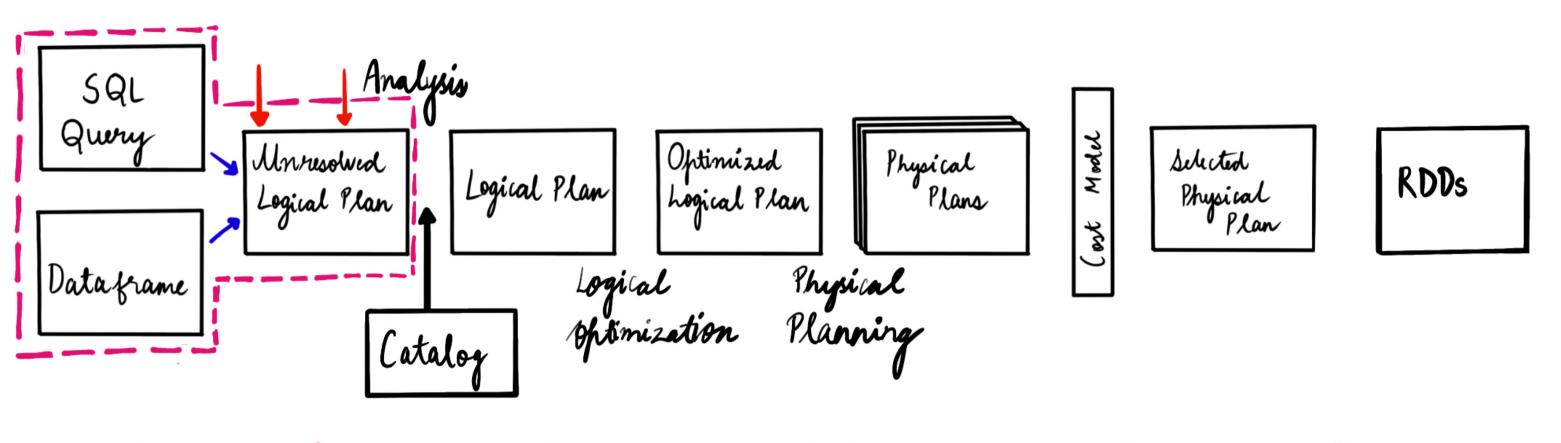
## LOGICAL & PHYSICAL LANNING SOCIE UNDER SECONDS

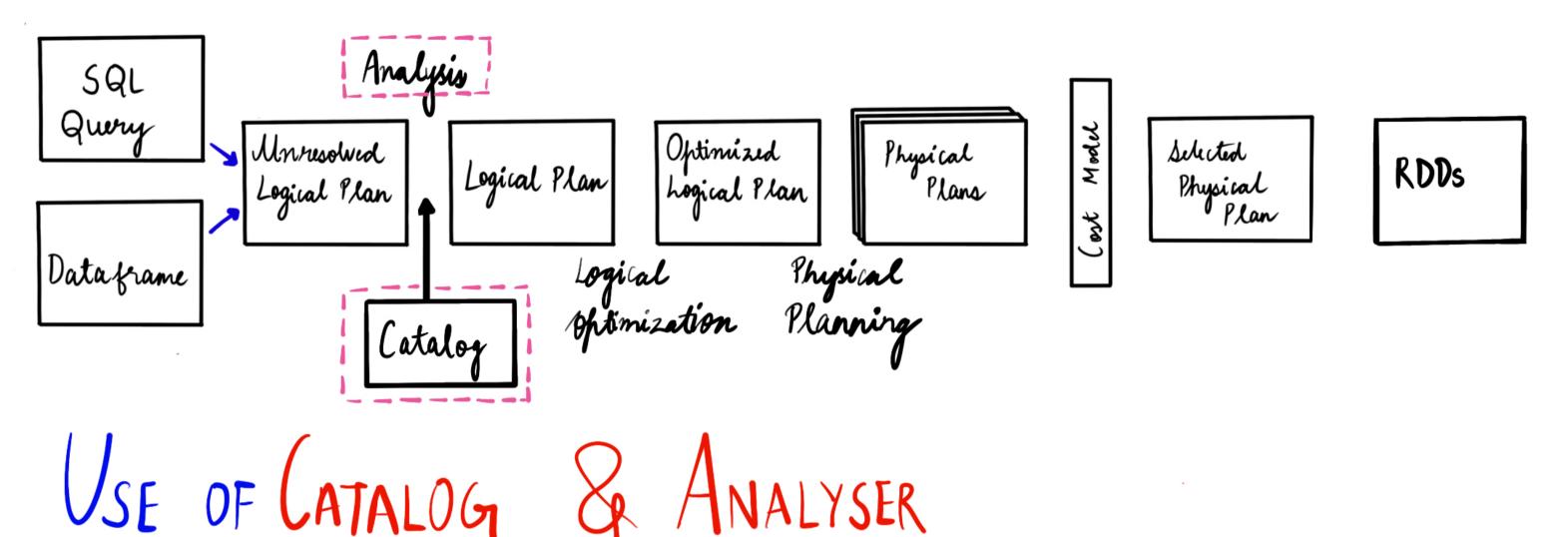


## SPARK CONTEXT GENERATES UNRESOLVED LOGICAL PLAN

## UNRESOLVED LOGICAL PLAN

PLAN GENERATED BY SPARKCONTEXT WITHOUT PROPER CHEURING OF SCHEMA.

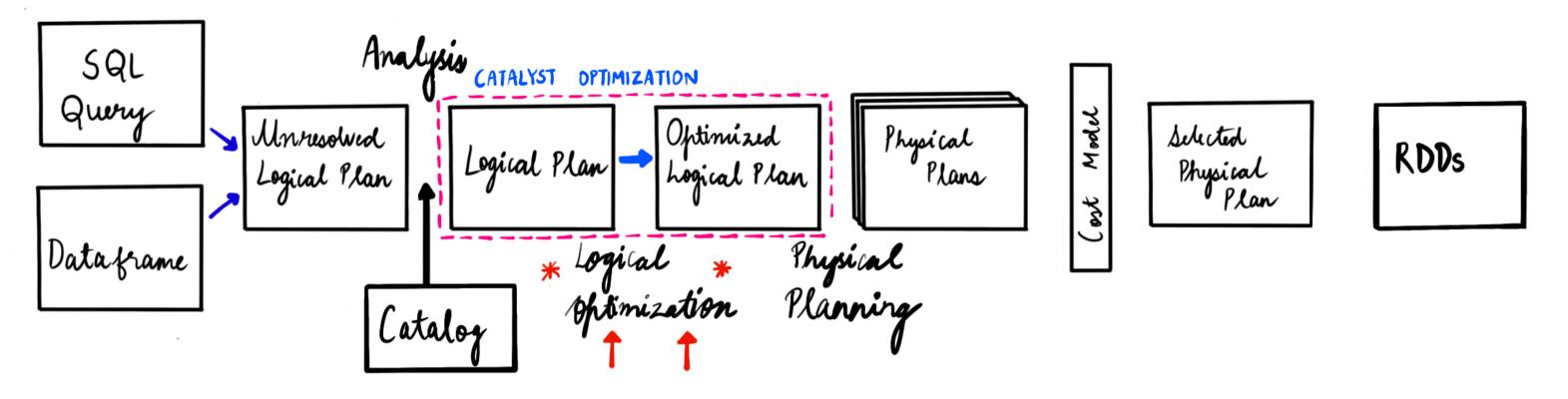
Ochiragsehra



CATALOG: ACTS AS METASTORE. IT CONTAINS INFO ABOUT Data Frame & DataSet API

ANALYSER: HELPS IN VERYFYING SEMANTICS & TABLE NAMES FROM CATALOG.

Ochiragsehra

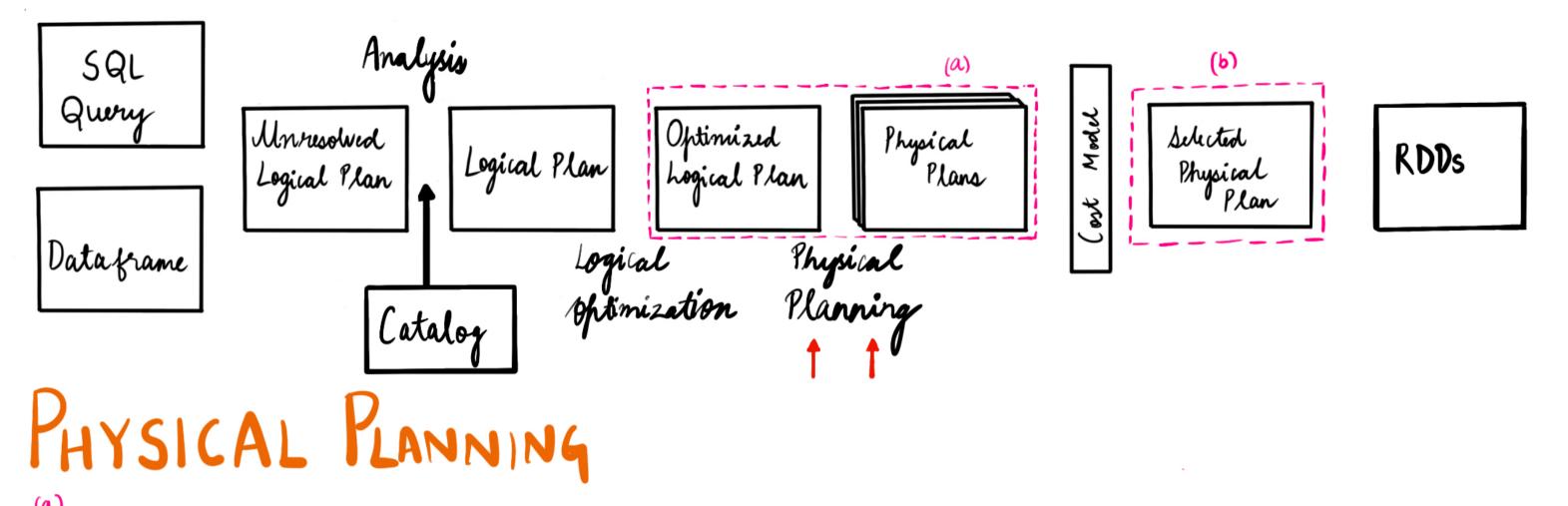


## LOGICAL PLAN TO OPTIMIZED LOGICAL PLAN

CATALYST OPTIMIZER HELPS IN CREATING A OPTIMIZED LOGICAL PLANNING etc.
THIS INCLUDES

- (a) CONSTANT FOLDING
- (b) PREDICTIVE PUSHDOWN
- (C) PROJECTION PRUNING.

Ochiragsehra



- · PHYSICAL OPERATORS ARE USED FOR COST BASED MODELLING OF LOGICAL PLAN
- · IT MEASURES COST FOR RUNNING QUERIES WITH DIFFERENT OPERATIONS. EX: BROADCAST JOIN IS SORT-MERGE JOIN
- · FINDS BEST OPTIMAL PHYSICAL PLAN

(P)

· SELECTED PHYSICAL PLAN WITH THE LOWEST COST PERFORMS CODEGEN I.E. CONVERT SPARK SAL TO LOW LEVEL CODE THAT IS DISTRIBUTED AMONGST THE EXECUTORS.