2. df\_SPY.columns;

3. df\_SPY.printSchema();

4. df\_SPY.describe().show();

6. df\_SPY.select("Return").describe().show();

24. df\_SPY = df\_SPY.selectExpr("\_c0 as Date", "\_c1 as Open", "\_c2 as High", "\_c3 as Low", "\_c4 as Close", "\_c5 as Adj\_Close", "\_c6 as Volume", "\_c7 as Return", "\_c8 as 21D\_CumReturn", "\_c9 as 252D\_CumReturn", "\_c11 as 21DAverageMax", "\_c16 as ABTO")

27. df\_SPY = df\_SPY.selectExpr("\_c7 as Return", "\_c8 as 21D\_CumReturn\_STR", "\_c9 as 252D\_CumReturn\_MOM", "\_c10 as 21DAverageMAX\_MAX", "\_c11 as 252DAvgLiquidityto21DAvgLiquidity\_ABTO\_Reverse")