Databricks

Install flypipe

```
[ ]: %pip install flypipe
```

Create a temproary view representing a table

Create a graph

```
[35]: from flypipe import node
      from flypipe.datasource.spark import Spark
      from flypipe.schema import Schema, Column
      from flypipe.schema.types import String
      import pyspark.sql.functions as F
      @node(
          type="pyspark",
          dependencies=[
              Spark("table").select(" fruit").alias("df")
          output=Schema(
           Column("fruit", String(), "fruit description"),
      def clean(df):
          df = df.withColumnRenamed(' fruit', 'fruit')
          df = df.withColumn('fruit', F.lower(F.col('fruit')))
          return df
      @node(
          type="pyspark",
          dependencies=[
             clean.select("fruit").alias("df")
          ],
          output=Schema(
              Column("fruit", String(), "fruit description"),
              Column("color", String(), "color of the fruit"),
      def color(df):
          replacements = {
              "orange": "orange",
              "watermelon": "red",
              "lemon": "yellow",
          df = df.withColumn("color", F.col("fruit"))
          df = df.replace(list(replacements.keys()), list(replacements.values()), "color")
```

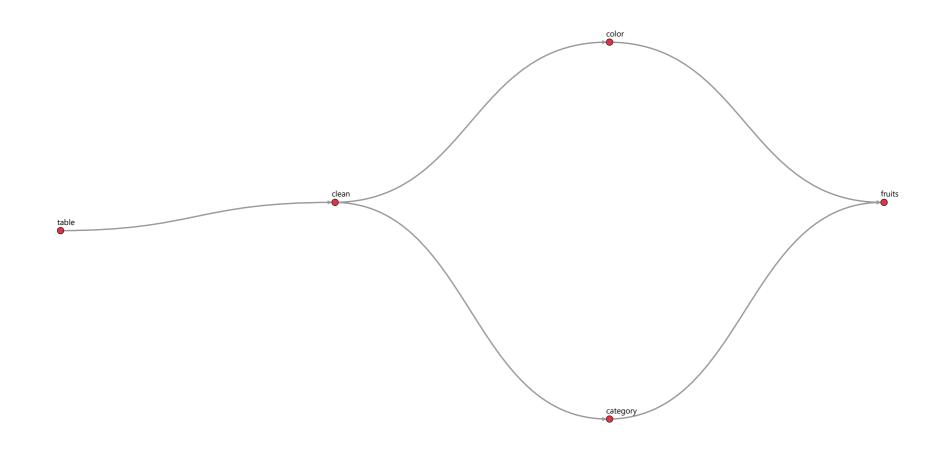
```
return df
@node(
    type="pyspark",
    dependencies=[
       clean.select("fruit").alias("df")
    ],
    output=Schema(
        Column("fruit", String(), "fruit description"),
        Column("category", String(), "category of the fruit"),
    )
def category(df):
    replacements = {
        "orange": "citric",
        "watermelon": "sweet",
        "lemon": "citric",
    }
    df = df.withColumn("category", F.col("fruit"))
    df = df.replace(list(replacements.keys()), list(replacements.values()), "category")
    return df
@node(
    type="pyspark",
    dependencies=[
       color.select("fruit", "color"),
       category.select("fruit", "category")
    ],
    output=Schema(
        Column("fruit", String(), "fruit description"),
        Column("color", String(), "color of the fruit"),
        Column("category", String(), "category of the fruit"),
    )
def fruits(color, category):
    return color.join(category, on="fruit", how="left")
```

Graph

[33]: displayHTML(fruits.html())

[33]:

Flypipe



Run

```
[37]: df = fruits.run(spark)
display(df)
```

category	color	fruit
citric	orange	orange
citric	yellow	lemon
sweet	red	watermelon