1、主类: 包含主要代码逻辑, 测试数据是需求文挡的 tip 中数据, 配合传入 5 和 7 参数 验证。

主类: SparkDemo 函数: countDate

输入参数: sparkSession: SparkSession

paramNum: Int

dataFrame: DataFrame

2、unit test 类 SparkDemoScalaTest.scala,分别测试传入参数 5 和 7,结果如下测试结果截图,传入参数 5 和 7 的效果与 tip 中一致

3、主类运行数据1时结果如下:

```
def main(args: Array[String]): Unit = {
 val spark = getSparkSession()
 val dataDF = getDαtαDF(spark)
 countDate(spark,3,dataDF)
 spark.stop()
def getDataDF(sparkSession: SparkSession): DataFrame = {
 val fields = Array(StructField("peer_id", StringType, nullable = true),
    StructField("id_1", StringType, nullable = true),
    StructField("id_2", StringType, nullable = true),
    StructField("year", IntegerType, nullable = true))
  val dataList = List(
    ("ABC17969(AB)", "1", "ABC17969", 2022),
    ("ABC17969(AB)", "2", "CDC52533", 2022),
    ("ABC17969(AB)", "3", "DEC59161", 2023),
    ("AE686(AE)", "9", "EG999", 2021),
    ("AE686(AE)", "12", "0M691", 2022)
  ).map(f => Row(f._1,f._2,f._3,f._4))
 val dataRDD = sparkSession.sparkContext.parallelize(dataList)
 val schema = StructType(fields)
 val df = sparkSession.createDataFrame(dataRDD,schema)
 return df
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