Java:

package com.java.SparkSQL;  
  
import org.apache.spark.SparkConf;  
import org.apache.spark.api.java.JavaSparkContext;  
import org.apache.spark.sql.DataFrame;  
import org.apache.spark.sql.SQLContext;  
  
*/\*\*  
 \* Created by Administrator on 2016/3/15.  
 \*/*public class DataFrameOps {  
  
 public static void main(String [] args) {  
  
 SparkConf conf = new SparkConf().setAppName("DataFrameOps").setMaster("local");  
 JavaSparkContext sc = new JavaSparkContext(conf);  
 //创建SQLContext上下文对象用于SQL的分析  
 SQLContext sqlContext = new SQLContext(sc);  
 //创建DataFrame，可以简单的认为DataFrame是一张表  
 DataFrame df= sqlContext.read().json("E:/softwares/spark-1.6.0/examples/src/main/resources/people.json");  
  
 //select \* from table  
 df.show();  
  
 //desc table;  
 df.printSchema();  
  
 //select name from table;  
 df.select("name").show();  
  
 //select name age from table;  
 df.select("name","age").show();  
 df.select(df.col("name"),df.col("age")).show();  
  
 //select name,age+10 from table;  
 df.select(df.col("name"),df.col("age").plus(10)).show();  
  
 //select \* from table where age > 10  
 df.filter(df.col("age").gt(10)).show();  
  
 //select count(\*) from table group by age;  
 df.groupBy(df.col("age")).count().show();  
 }  
}

IDEA:

**package** scala.SparkSQL  
  
**import** org.apache.spark.sql.SQLContext  
**import** org.apache.spark.{SparkContext, SparkConf}  
  
*/\*\*  
 \* Created by Administrator on 2016/3/15.  
 \*/***object** DataFrameOps {  
 **def** main(args: Array[String]) {  
  
 **val** conf = **new** SparkConf().setAppName("DataFrameOps").setMaster("local")  
 **val** sc = **new** SparkContext(conf)  
  
 **val** sqlContext = **new** SQLContext(sc);  
  
 **val** df = sqlContext.read.json("E:/softwares/spark-1.6.0/examples/src/main/resources/people.json");  
  
 df.show()  
 df.printSchema()  
 df.select("name").show()  
 df.select(df("name"), df("age") + 10).show()  
 df.filter(df("age") > 10).show()  
 df.groupBy("age").count.show()  
  
  
 }  
}