Code

**package** Task

**import** org.apache.spark.\_

**import** org.apache.spark.sql.\_

**import** org.apache.spark.sql.functions.\_

**import** org.apache.spark.sql.types.\_

**import** scala.io.Source

**object** Flat {

**def** main(args:Array[*String*]):Unit={

**val** conf = **new** SparkConf().setAppName("Task").setMaster("local[\*]")

**val** sc = **new** SparkContext(conf)

sc.setLogLevel("ERROR")

**val** spark = SparkSession.builder().getOrCreate()

**import** spark.implicits.\_

**val** html = Source.fromURL("https://bikeindex.org/api/v3/search")

**val** s = html.mkString

**val** urlrdd = sc.parallelize(List(s))

//read data

**val** urldf = spark.read.~~json~~(urlrdd)

urldf.show()

urldf.printSchema()

//Flat the read data

**val** flatbike = urldf.withColumn("bikes",explode(col("bikes")))

println("-------------------------------------------flatbike-----------------------------------------------")

flatbike.printSchema()

flatbike.show()

**val** bikedf= flatbike.select("bikes.\*")

bikedf.show()

**val** finaldf = bikedf.select("id").show()

println("-------------------------------------------------refrence df-----------------------------------------")

//Write the data

**val** write = bikedf.write.format("delta").mode("overwrite").save("file:///Users/kumarvaibhav/Desktop/HADOOP\_TASK/material//output\_explode")

}

}

Output





