import org.apache.spark.mllib.linalg.{Vectors,Matrices}

import org.apache.spark.mllib.linalg.distributed.{IndexedRow,IndexedRowMatrix}

val rows =sc.parallelize(Seq(

(0l,Array(1.0,0.0,0.0)),

(0l,Array(0.0,1.0,0.0)),

(0l,Array(0.0,0.0,1.0)))

).map{case(i,xs)=> IndexedRow(i,Vectors.dense(xs))}

val indexedRowMatrix = new IndexedRowMatrix(rows)

val localMatrix = Matrices.dense(3,2, Array(1.0,2.0,3.0,4.0,5.0,6.0))

indexedRowMatrix.multiply(localMatrix).rows.collect