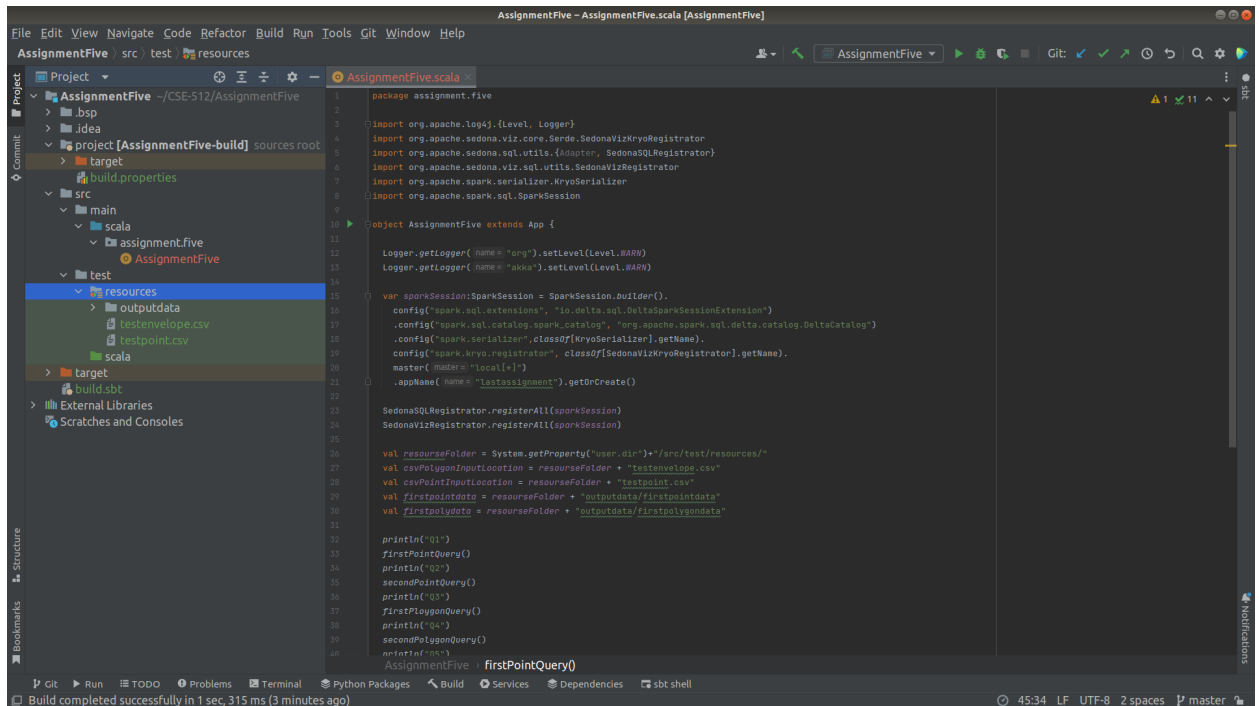


CSE 512 Assignment 5 (Delta Lake)

This assignment requires you to setup sbt project and fill up five sql queries.Steps for the assignment are as follows:

1. Download the provided Zip from canvas. You have to set up your IntelliJ IDE with it. This project includes the setup for [Apache Sedona](#) and [Delta Lake](#). It should look like as follows (image for reference)



2. Open the Scala file and write following five queries in given order
 - 2.1. Read the given testpoint.csv file in csv format and write in delta format and save named firstpointdata. I.e firstPointQuery()
 - 2.2. Read the firstpointdata in delta format. Print the total count of the points. I.e secondPointQuery()
 - 2.3. Read the given testenvlope.csv in csv format and write in delta format and save it named firstpolydata. I.e. firstPloygonQuery()
 - 2.4. Read the firstpolydata in delta format. Print the total count of the polygon. secondPolygonQuery()
 - 2.5. Read the firstpointdata in delta format and find the total count for point pairs where distance between the points within a pair is less than 2. JoinQuery()
3. Hints: Go through the given links for reading and writing. You can read the given files in a dataframe and make temporary tables and can use sparkSession.sql("") to write sql statements.

You have to submit only the AssignmentFive.scala file to canvas with complete code.