```
001,56,CSE
002,67,DSE
003,78,CCE
004,89,DSE
005,40,CSE
006,51,CCE
007,58,DSE
008,63,CCE
this is 1st dataset and another dataset is: 001,Rajiv,Reddy,21,9848022337,Hyderabad
002, siddarth, Battacharya, 22, 9848022338, Kolkata
003, Rajesh, Khanna, 22, 9848022339, Delhi
004, Preethi, Agarwal, 21, 9848022330, Pune
005, Trupthi, Mohanthy, 23, 9848022336, Bhuwaneshwar
006, Archana, Mishra, 23, 9848022335, Chennai
007, Komal, Nayak, 24, 9848022334, trivendram
008, Bharathi, Nambiayar, 24, 9848022333, Chennai
merge both the dataset and display CSE student name and marks
CODE:
// Define a case class for Dataset 1
case class Dataset1(id: String, marks: Int, department: String)
// Define a case class for Dataset 2
case class Dataset2(id: String, name: String, surname: String, age: Int, phone: String, city: String)
// Load Dataset 1 from input.txt
val data1 = spark.read.textFile("input.txt")
.map( .split(","))
.map(attributes => Dataset1(attributes(0), attributes(1).toInt, attributes(2)))
// Load Dataset 2 from input1.txt
val data2 = spark.read.textFile("input1.txt")
.map( .split(","))
.map(attributes => Dataset2(attributes(0), attributes(1), attributes(2), attributes(3).toInt,
attributes(4), attributes(5)))
// Convert RDDs to DataFrames
import spark.implicits.
val dfl = data1.toDF()
val df2 = data2.toDF()
// Perform the join operation
val mergedData = df1.join(df2, "id")
// Filter CSE students
val cseStudents = mergedData.filter($"department" === "CSE")
```

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// Display CSE student names with their marks
cseStudents.select("name", "marks").show()
import org.apache.spark.sql.SparkSession
import org.apache.spark.sql.functions.col
// Create a SparkSession
val spark = SparkSession.builder
.appName("MergeDatasets")
.getOrCreate()
// Define the data for the first dataset
val data1 = Seq(
("001", 56, "CSE"),
("002", 67, "DSE"),
("003", 78, "CCE"),
("004", 89, "DSE"),
("005", 40, "CSE"),
("006", 51, "CCE"),
("007", 58, "DSE"),
("008", 63, "CCE")
// Create DataFrame for the first dataset
val df1 = spark.createDataFrame(data1).toDF("regno", "marks", "department")
// Define the data for the second dataset
val data2 = Seq(
("001", "Rajiv", "Reddy", 21, "9848022337", "Hyderabad"),
("002", "Siddarth", "Battacharya", 22, "9848022338", "Kolkata"),
("003", "Rajesh", "Khanna", 22, "9848022339", "Delhi"),
("004", "Preethi", "Agarwal", 21, "9848022330", "Pune"),
("005", "Trupthi", "Mohanthy", 23, "9848022336", "Bhuwaneshwar"),
("006", "Archana", "Mishra", 23, "9848022335", "Chennai"),
("007", "Komal", "Nayak", 24, "9848022334", "Trivendram"),
("008", "Bharathi", "Nambiayar", 24, "9848022333", "Chennai")
// Create DataFrame for the second dataset
val df2 = spark.createDataFrame(data2).toDF("regno", "first name", "last name", "age",
"phone", "city")
// Merge the datasets
val merged df = df1.join(df2, Seq("regno"))
// Filter students who scored more than 70
```

```
val high_score_students = merged_df.filter(col("marks") > 70)
// Display names of high-scoring students
high_score_students.select("first_name", "last_name").show()
```