```
import org.apache.spark.sql.SparkSession
object SensorCaseStudy {
 def main(args: Array[String]) {
   val sparkSession = SparkSession.builder.master("local")
      .appName("spark session example")
      .getOrCreate()
   val HVACData = sparkSession.read.format("csv").option("header",
"true").option("inferSchema", "true")
                        .load("F:\\PDF Architect\\HVAC.csv")
   HVACData.show(5)
   import sparkSession.implicits.
   HVACData.createOrReplaceTempView("HVAC Data")
   val newhvac = HVACData.select($"Date", $"Time",
$"TargetTemp".cast("Int"), $"ActualTemp".
                      cast("Int"), $"System".cast("Int"),
$"SystemAge".cast("Int"), $"BuildingID")
   val newcolhvac = sparkSession.sql("select *,IF((targettemp -
actualtemp) > 5, '1', IF" +
                        "((targettemp - actualtemp) < -5, '1', 0)) AS
tempchange from HVAC_Data").toDF()
   newcolhvac.createOrReplaceTempView("newColHvac")
  newcolhvac.printSchema()
   val buildingData = sparkSession.read.format("csv").option("header",
"true").option("inferSchema", "true")
      .load("F:\\PDF Architect\\building.csv").toDF()
   buildingData.createOrReplaceTempView("Building_Data")
   buildingData.show(5)
    val joinedDF = newcolhvac.as("HD").join(buildingData.as("BD"),
             $"BD.BuildingID" === $"HD.BuildingID").filter($"tempchange"
=== 1).groupBy("Country").count().show()
 }
```