Touch somequestion.scala

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hdfs dfs -put clusterdata.csv /user/hive/warehouse/
:load mycode.scala
spark-shell<enter>
import spark.implicits.
spark.sql("show tables").show()
spark.sql("select * from purchases").show()
val purch = spark.sql("select * from purchases")
purch.show()
Filter
val purchOverFifteen = purch.filter("purchase id > 15")
bdf.filter("buyer_name == 'Raj'").show()
dfTags.filter("tag like 's%'").show(10)
bdf.filter(" buyer_name == 'Raj' or buyer_name == 'Anu' ").show()
dfTags.filter("id in (25, 108)").show(10)
Columns manipulation
val purchWithMonth =
purchOverFifteen.select("*").withColumn("Month", lit("Nov"))
df.select($"name", $"age" + 1).show()
Joins in SQL , Not liked by me
purchWithMonth.createOrReplaceTempView("purchWithMonth")
val purchWithBuyerNum = spark.sql("select purchWithMonth.*, buyers.buyer num
                                      from purchWithMonth
                                      join buyers
                                      on purchWithMonth.buyer =
buyers.buyer name")
Grouping
val buyerSummary = purchWithBuyerNum.groupBy("buyer").agg(count("*"))
JOINS IN DATA FRAMES spark
val buyers = spark.sql("select * from buyers")
```

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val purchWithBuyerAgain = purchWithMonth.join(buyers,
purchWithMonth.col("buyer") === buyers.col("buyer name"), "inner")
bdf.join(bdf3,bdf("buyer num") === bdf3("num"),"left outer").show()
I'd rename before join: Or else there is too much trouble
df1.alias("tab1").join(
 df2.withColumnRenamed("descr", "dept_full_description").alias("tab2"),
Seq("id"), "left_outer")
Classes in scala
Class myclass {
Val myval1 = "any thing"
Var myvar2 = " any thing 2"
Def func1(x: Int,y:Int) : Unit = { }
Def func2(x: Int,y: String) : Int = { }
Def func3(x: String,y: String) : String = { }
// instant of the class or an object of the class
Val myClassObject = new myclass()
Function
Def myfunc1(x: Int, y:int): Int={
                               // function starts
Println(s"x=$x")
                   // string interpretation , I will put $ and a var
Println(s"y=$y") // print y= value of y
X*y } //instead of Int you can also write unit or string
Println(myfunc1(3,2)
For loop
for( i <- 1 to 10) { println( myfunc(i,i) }
conditions
if(x>y){ println("X is larger than y")}
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else{ println("x is not larger than y")}

use string s with \$ sign

for(I <- 10 to 90) { println(s" the value of I is i")

yield statement

for (k <- 20 to 30) yield k