Databricks – PySpark: When Otherwise (Case)

- ✓ When
- ✓ Otherwise
- ✓ Case

Case Statement

To evaluate list of conditions and choose a result path according to the matching condition, When().Otherwise() function in Pyspark can be used

This is similar to case or switch statement in other programming languages

When no condition is matching, Otherwise result path would be chosen.

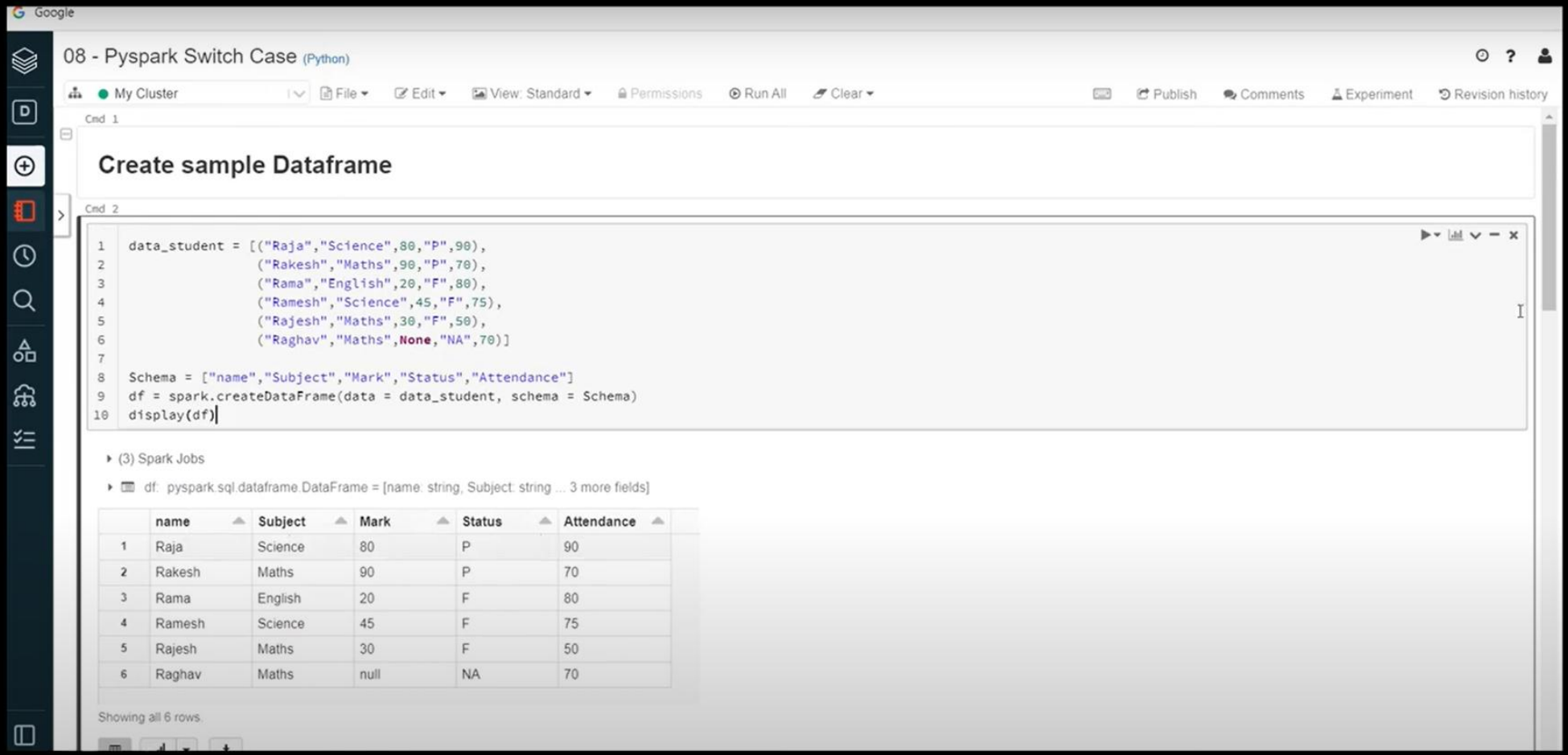
Syntax

```
df.withColumn("New or existing column", when(Condition1, Result1)
                                        .when(Condition2, Result2)
                                        .when(ConditionN, ResultN)
                                        .otherwise(Result))
```

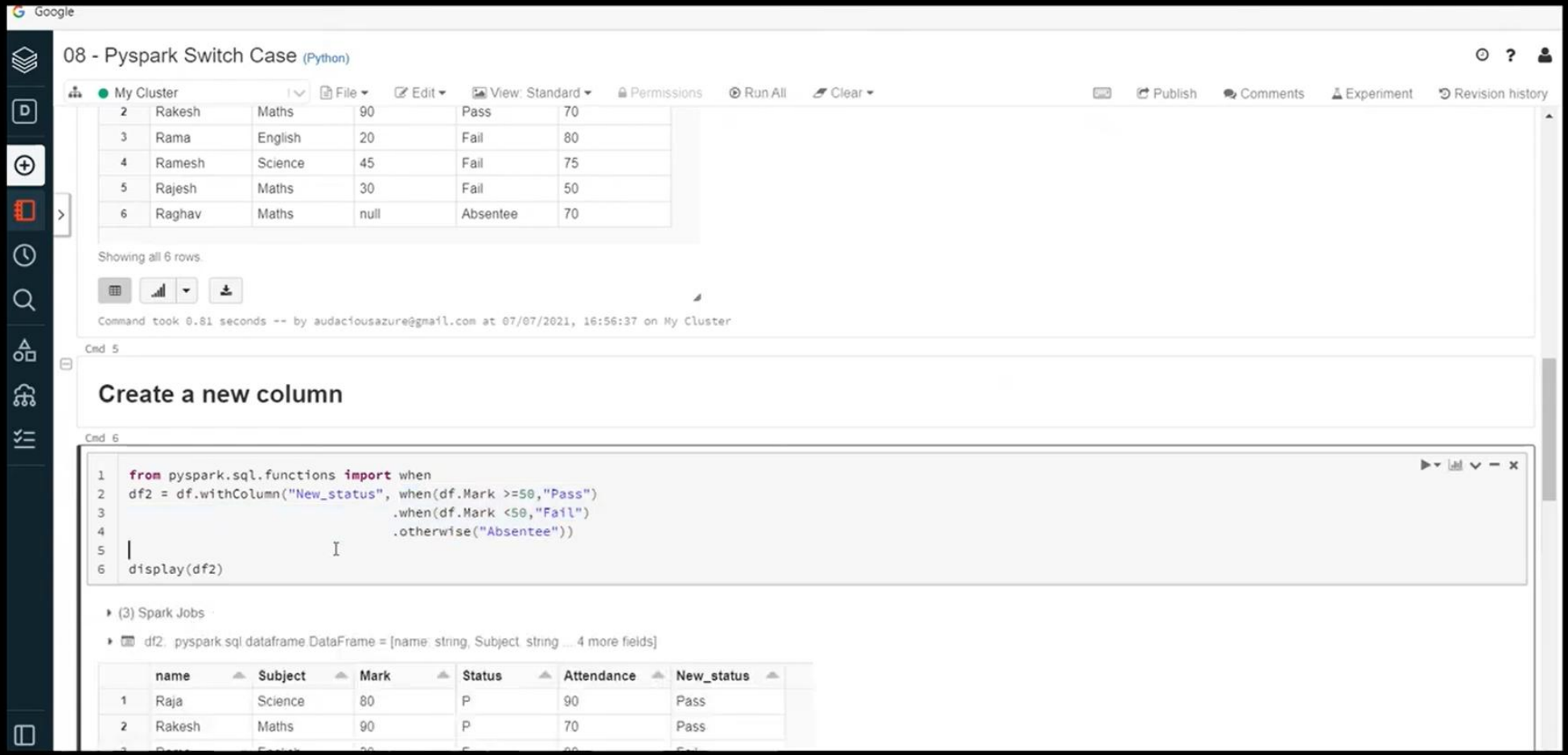
```
df.withColumn("New or existing column ", expr("CASE WHEN Condition1 THEN Result1"+
                                              "WHEN Condition2 THEN Result2"+
                                              "WHEN ConditionN THEN ResultN" +
                                              "ELSE Result END"))
```

To Combine multiple conditions: '&' for AND ; '|' for OR

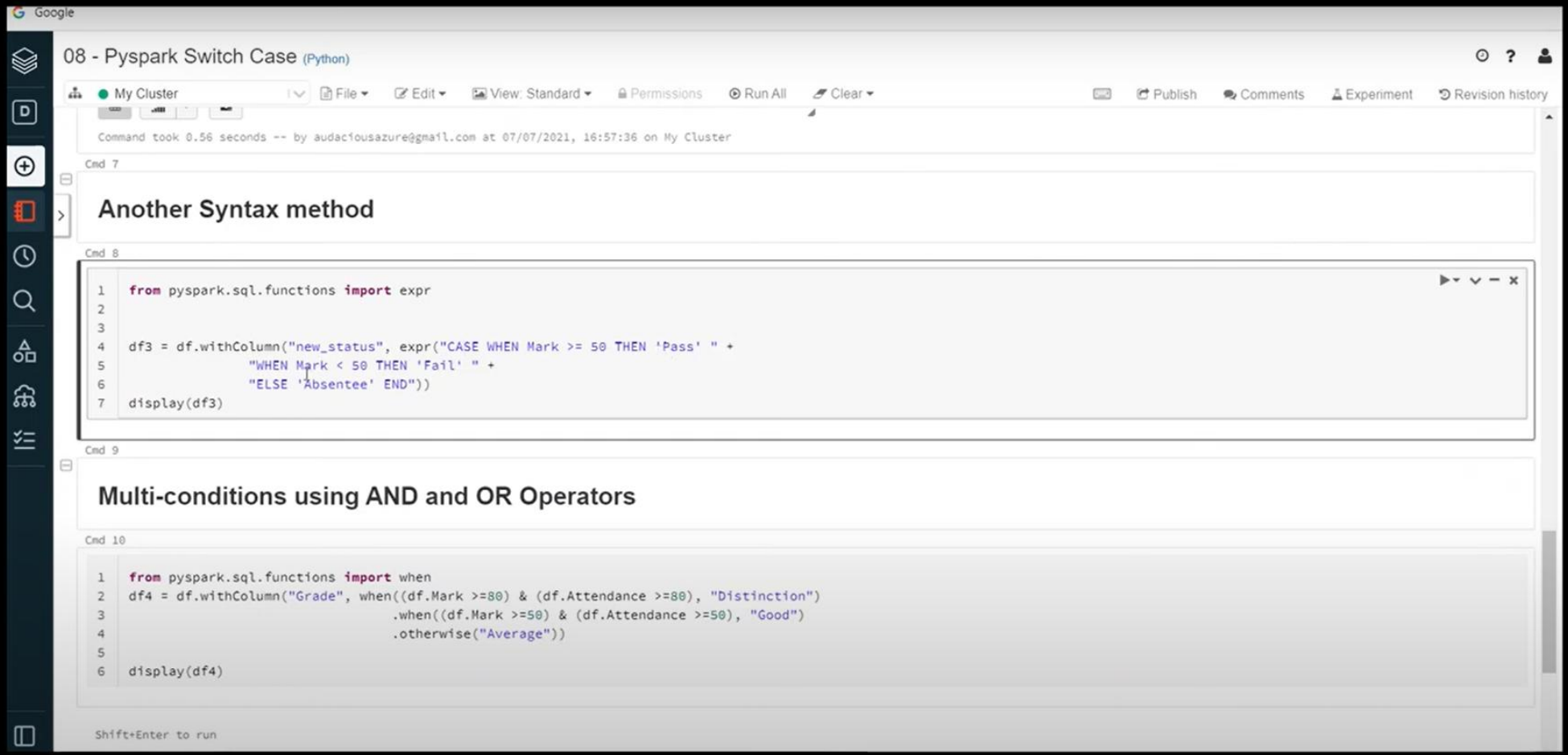
12. Databricks | Pyspark: Case Function (When.Otherwise)



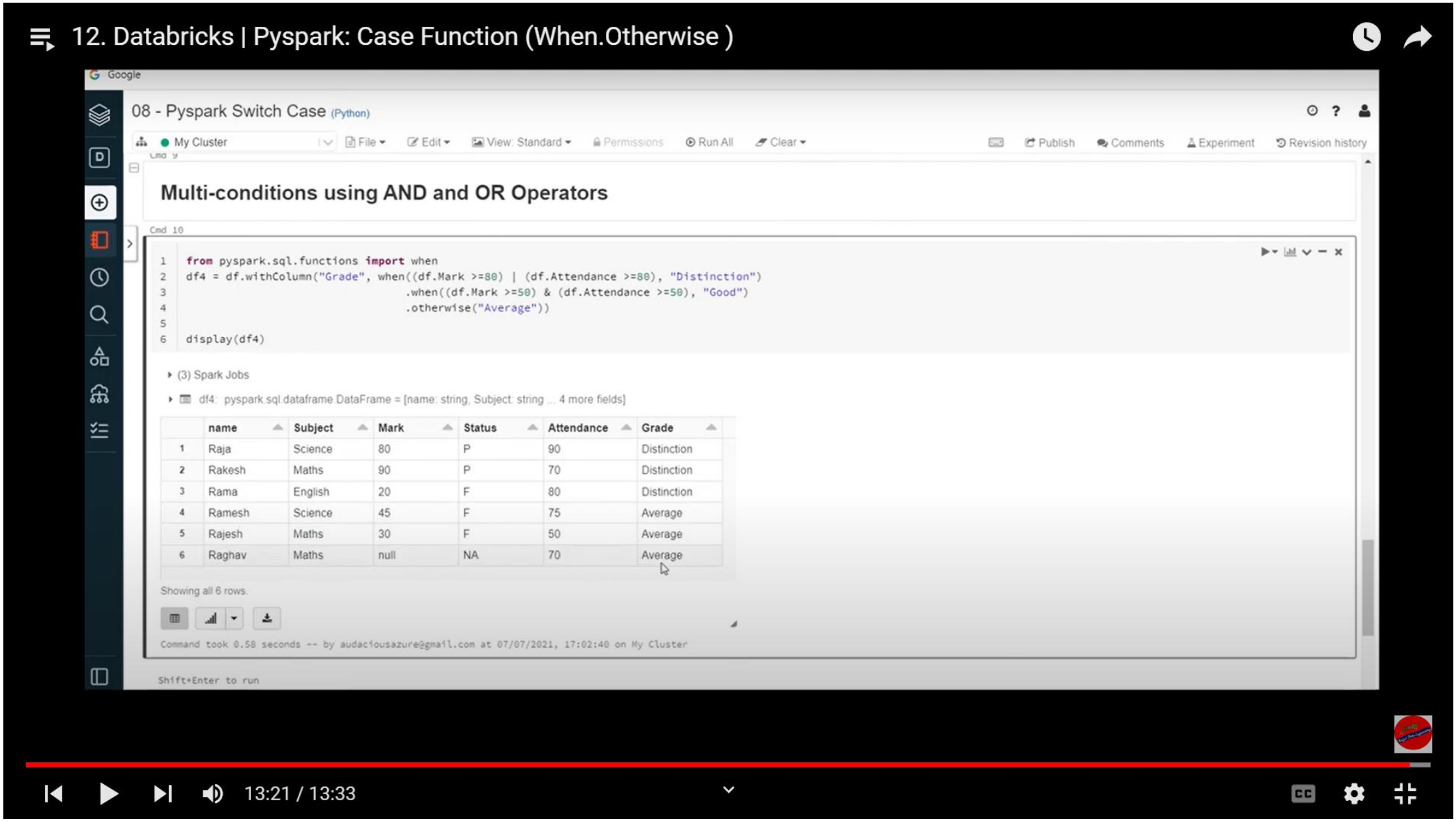
5:09 / 13:33


Google
08 - Pyspark Switch Case (Python)
My Cluster
File
Edit
View: Standard
Permissions
Run All
Clear
Publish
Comments
Experiment
Revision history
2 Rakesh Maths 90 Pass 70
3 Rama English 20 Fail 80
4 Ramesh Science 45 Fail 75
5 Rajesh Maths 30 Fail 50
6 Raghav Maths null Absentee 70
Showing all 6 rows.
Command took 0.81 seconds -- by audaciousazure@gmail.com at 07/07/2021, 16:56:37 on My Cluster
Cmd 5
Create a new column
Cmd 6
from pyspark.sql.functions import when
df2 = df.withColumn("New_status", when(df.Mark >=50,"Pass")
.when(df.Mark <50,"Fail")
.otherwise("Absentee"))
display(df2)
(3) Spark Jobs
df2: pyspark.sql.dataframe.DataFrame = [name: string, Subject: string ... 4 more fields]
name Subject Mark Status Attendance New_status
1 Raja Science 80 P 90 Pass
2 Rakesh Maths 90 P 70 Pass

12. Databricks | Pyspark: Case Function (When.Otherwise)



8:52 / 13:33


12. Databricks | Pyspark: Case Function (When.Otherwise)
Google
08 - Pyspark Switch Case (Python)
My Cluster
File
Edit
View: Standard
Permissions
Run All
Clear
Publish
Comments
Experiment
Revision history
Multi-conditions using AND and OR Operators
Cmd 10
1 from pyspark.sql.functions import when
2 df4 = df.withColumn("Grade", when((df.Mark >=80) | (df.Attendance >=80), "Distinction")
3 .when((df.Mark >=50) & (df.Attendance >=50), "Good")
4 .otherwise("Average"))
5
6 display(df4)
(3) Spark Jobs
df4: pyspark.sql.dataframe.DataFrame = [name: string, Subject: string ... 4 more fields]
name Subject Mark Status Attendance Grade
1 Raja Science 80 P 90 Distinction
2 Rakesh Maths 90 P 70 Distinction
3 Rama English 20 F 80 Distinction
4 Ramesh Science 45 F 75 Average
5 Rajesh Maths 30 F 50 Average
6 Raghav Maths null NA 70 Average
Showing all 6 rows.
Command took 0.58 seconds -- by audaciousazure@gmail.com at 07/07/2021, 17:02:40 on My Cluster
Shift+Enter to run
13:21 / 13:33