

Step - 1 : Problem Statement

24_Trim and case in pyspark

Write a pyspark code perform below function

- Select all employee detail with First name not in "Vikas","Ashish", and "Nikhil".
- Select first name from "EmployeeDetail" df after removing white spaces from right side
- Select first name from "EmployeeDetail" table after removing white spaces from left side
- Display first name and Gender as M/F.(if male then M, if Female then F)

Difficult Level: EASY

DataFrame:

])

Step - 2: Writing the pyspark code to solve the

```
# Creating Spark Session
from pyspark.sql import SparkSession
from pyspark.sql.types import
StructType,StructField,IntegerType,StringType
#creating spark session
spark = SparkSession. \
builder. \
config('spark.shuffle.useOldFetchProtocol', 'true'). \
config('spark.ui.port','0'). \
config("spark.sql.warehouse.dir", "/user/itv008042/warehouse"). \
enableHiveSupport(). \
master('yarn'). \
getOrCreate()
# Create a list of rows from the image
data = [
      [1, "Vikas", "Ahlawat", 600000.0, "2013-02-15 11:16:28.290", "IT", "Male"],
     [2, "nikita", "Jain", 530000.0, "2014-01-09 17:31:07.793", "HR", "Female"],
      [3, "Ashish", "Kumar", 1000000.0, "2014-01-09 10:05:07.793", "IT", "Male"],
      [4, "Nikhil", "Sharma", 480000.0, "2014-01-09 09:00:07.793", "HR", "Male"],
      [5, "anish", "kadian", 500000.0, "2014-01-09 09:31:07.793", "Payroll", "Male"],
1
# Create a schema for the DataFrame
schema = StructType([
      StructField("EmployeeID", IntegerType(), True),
      StructField("First_Name", StringType(), True),
      StructField("Last_Name", StringType(), True),
      StructField("Salary", DoubleType(), True),
      StructField("Joining_Date", StringType(), True),
      StructField("Department", StringType(), True),
```

StructField("Gender", StringType(), True)

])

emp_df=spark.createDataFrame(data,schema)

```
# 33. Select all employee detail with First name not in "Vikas", "Ashish", and "Nikhil".

from pyspark.sql.functions import col,lower
emp_df.filter(~lower(col("First_Name")).isin("vikas", "ashish", "nikhil")).show()

# 34. Select first name from "EmployeeDetail" df after removing white spaces from
# right side

from pyspark.sql.functions import rtrim
emp_df.select(rtrim(col("First_Name"))).show()
```

+				 	+	
EmployeeID	First_Name				Department	
2 5	nikita anish	kadian	500000.0	09:31:	HR Payroll	
+ rtrim(First + 						

```
| trim(First_Name)|
| Vikas|
| Nikita|
| Ashish|
| Nikhil|
| anish|
+----+
| First_Name|Gen|
+----+
| Vikas| M|
| nikita| F|
| Ashish| M|
| Nikhil| M|
| anish| M|
```

