**Laboratorio – Uso de Spark para Base de Datos**

Apache Spark es un motor unificado de analíticas para procesar datos a gran escala que integra módulos para SQL, streaming, aprendizaje automático y procesamiento de grafos. Spark se puede ejecutar de forma independiente o en Apache Hadoop, Apache Mesos, Kubernetes, la nube y distintas fuentes de datos.

Muchas veces, no se sabe si utilizar Apache Spark o Apache Hadoop. Ambos están entre los sistemas distribuidos que más destacan en el mercado y ambos son proyectos generales de Apache parecidos que se usan juntos a menudo. Spark es una arquitectura de procesamiento en memoria más flexible y, con frecuencia, más cara. Para decidir cuál te conviene, debes conocer sus características a fondo.

**¿Por qué elegir Spark en vez de un motor de solo SQL?**

Apache Spark es un motor rápido de uso general para computación de clústeres que se puede desplegar en clústeres de Hadoop o de forma independiente. Spark permite que los programadores escriban aplicaciones rápidamente en Java, Scala, Python, R y SQL para que puedan acceder a ellas los desarrolladores, los científicos de datos y los usuarios avanzados de las áreas de negocio con experiencia en estadísticas. Con Spark SQL, los usuarios se pueden conectar a cualquier fuente de datos y presentarla en forma de tabla para que puedan utilizarla los clientes de SQL. Por si fuera poco, resulta muy sencillo desplegar algoritmos interactivos de aprendizaje automático en Spark.

**Procedimiento**

La primera tarea a realizar es instalar pyspark y findspark, módulos que permitirán el uso de los servicios de spark en Python.

[]

!pip install pyspark

**out**

Collecting pyspark

Downloading pyspark-3.3.0.tar.gz (281.3 MB)

Collecting py4j==0.10.9.5

Downloading py4j-0.10.9.5-py2.py3-none-any.whl (199 kB)

Building wheels for collected packages: pyspark

Building wheel for pyspark (setup.py): started

Building wheel for pyspark (setup.py): finished with status 'done'

Created wheel for pyspark: filename=pyspark-3.3.0-py2.py3-none-any.whl size=281764027 sha256=4a1b9917a397b583c43cae273c6a2e54d4578ade51e10b5bc98d1004aee96c21

Stored in directory: c:\users\pc guerra\appdata\local\pip\cache\wheels\05\75\73\81f84d174299abca38dd6a06a5b98b08ae25fce50ab8986fa1

Successfully built pyspark

Installing collected packages: py4j, pyspark

Successfully installed py4j-0.10.9.5 pyspark-3.3.0

[]

import pyspark

from pyspark.sql import \*

from pyspark.sql.types import \*

from pyspark.sql.functions import \*

from pyspark import SparkContext

[]

!pip3 install findspark

**out**

Collecting findspark

Using cached findspark-2.0.1-py2.py3-none-any.whl (4.4 kB)

Installing collected packages: findspark

Successfully installed findspark-2.0.1

[]

import findspark

findspark.init()

después de la instalación de los 2 módulos, así como su importación en este lab y su inicialización, se creará una sesión de spark para usar sus funciones.

[]

sc = pyspark.SparkContext()

spark = SparkSession.builder.getOrCreate()

[]

spark

**out**

**SparkSession - in-memory**

**SparkContext**

[Spark UI](http://desktop-tin1k2c:4040/)

**Version**

v3.3.0

**Master**

local[\*]

**AppName**

pyspark-shell

[]

sc.\_conf.getAll()

**out**

[('spark.driver.extraJavaOptions',

'-XX:+IgnoreUnrecognizedVMOptions --add-opens=java.base/java.lang=ALL-UNNAMED --add-opens=java.base/java.lang.invoke=ALL-UNNAMED --add-opens=java.base/java.lang.reflect=ALL-UNNAMED --add-opens=java.base/java.io=ALL-UNNAMED --add-opens=java.base/java.net=ALL-UNNAMED --add-opens=java.base/java.nio=ALL-UNNAMED --add-opens=java.base/java.util=ALL-UNNAMED --add-opens=java.base/java.util.concurrent=ALL-UNNAMED --add-opens=java.base/java.util.concurrent.atomic=ALL-UNNAMED --add-opens=java.base/sun.nio.ch=ALL-UNNAMED --add-opens=java.base/sun.nio.cs=ALL-UNNAMED --add-opens=java.base/sun.security.action=ALL-UNNAMED --add-opens=java.base/sun.util.calendar=ALL-UNNAMED --add-opens=java.security.jgss/sun.security.krb5=ALL-UNNAMED'),

('spark.app.id', 'local-1662140215475'),

('spark.executor.id', 'driver'),

('spark.app.name', 'pyspark-shell'),

('spark.rdd.compress', 'True'),

('spark.driver.port', '58525'),

('spark.executor.extraJavaOptions',

'-XX:+IgnoreUnrecognizedVMOptions --add-opens=java.base/java.lang=ALL-UNNAMED --add-opens=java.base/java.lang.invoke=ALL-UNNAMED --add-opens=java.base/java.lang.reflect=ALL-UNNAMED --add-opens=java.base/java.io=ALL-UNNAMED --add-opens=java.base/java.net=ALL-UNNAMED --add-opens=java.base/java.nio=ALL-UNNAMED --add-opens=java.base/java.util=ALL-UNNAMED --add-opens=java.base/java.util.concurrent=ALL-UNNAMED --add-opens=java.base/java.util.concurrent.atomic=ALL-UNNAMED --add-opens=java.base/sun.nio.ch=ALL-UNNAMED --add-opens=java.base/sun.nio.cs=ALL-UNNAMED --add-opens=java.base/sun.security.action=ALL-UNNAMED --add-opens=java.base/sun.util.calendar=ALL-UNNAMED --add-opens=java.security.jgss/sun.security.krb5=ALL-UNNAMED'),

('spark.sql.warehouse.dir',

'file:/C:/Users/Pc%20Guerra/Documents/bn/spark-warehouse'),

('spark.driver.host', 'DESKTOP-TIN1K2C'),

('spark.serializer.objectStreamReset', '100'),

('spark.app.startTime', '1662140214171'),

('spark.master', 'local[\*]'),

('spark.submit.pyFiles', ''),

('spark.submit.deployMode', 'client'),

('spark.app.submitTime', '1662140213914'),

('spark.ui.showConsoleProgress', 'true')]

**[]**

Empleado = Row("primerNombre","apellido","mail","sueldo")

empleado1 = Empleado("Juan","Perez","juanperez@gmail.com",10000)

empleado2 = Empleado("Pedro","Ramirez","pram@gmail.com",20000)

empleado3 = Empleado("Pablo","Corrado","pcors@gmail.com",30000)

empleado4 = Empleado("Jorge","Mendoza","jmen@gmail.com",5000)

empleado5 = Empleado("Edson","Uribe","euri@gmail.com",2000)

print(empleado2)

**out**

Row(primerNombre='Pedro', apellido='Ramirez', mail='pram@gmail.com', sueldo=20000)

[]

print("El nombre del empleado 1 es", format(empleado1[0]))

print("El sueldo del empleado 5 es", format(empleado5.sueldo))

**out**

El nombre del empleado 1 es Juan

El sueldo del empleado 5 es 2000

[]

area1=Row(id='123456',name='RH')

area2=Row(id='789101',name='OPS')

area3=Row(id='111213',name='FN')

area4=Row(id='141516',name='MN')

[]

areaconempleado1 = Row(area=area1, empleados=[empleado1,empleado2,empleado5])

areaconempleado2 = Row(area=area2, empleados=[empleado3,empleado4])

areaconempleado3 = Row(area=area3, empleados=[empleado1,empleado4,empleado3])

areaconempleado4 = Row(area=area4, empleados=[empleado2,empleado3])

[]

print(areaconempleado2)

**out**

Row(area=Row(id='789101', name='OPS'), empleados=[Row(primerNombre='Pablo', apellido='Corrado', mail='pcors@gmail.com', sueldo=30000), Row(primerNombre='Jorge', apellido='Mendoza', mail='jmen@gmail.com', sueldo=5000)])

[]

​

areasconempleados = [areaconempleado1,areaconempleado2,areaconempleado3,areaconempleado4]

df = spark.createDataFrame(areasconempleados)

df.show(n=2,truncate=False)

**out**

+-------------+--------------------------------------------------------------------------------------------------------------------------+

|area |empleados |

+-------------+--------------------------------------------------------------------------------------------------------------------------+

|{123456, RH} |[{Juan, Perez, juanperez@gmail.com, 10000}, {Pedro, Ramirez, pram@gmail.com, 20000}, {Edson, Uribe, euri@gmail.com, 2000}]|

|{789101, OPS}|[{Pablo, Corrado, pcors@gmail.com, 30000}, {Jorge, Mendoza, jmen@gmail.com, 5000}] |

+-------------+--------------------------------------------------------------------------------------------------------------------------+

only showing top 2 rows

[]

fifa\_file = "fifa-players-2020.csv.bz2"

fifa\_df = spark.read.load(fifa\_file,

format="csv",

sep=",",

inferSchema="true",

header="true")

[]

fifa\_df.show(n=5,truncate=False)

**out**

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|sofifa\_id|player\_url |short\_name |long\_name |age|dob |height\_cm|weight\_kg|nationality|club |overall|potential|value\_eur|wage\_eur|player\_positions|preferred\_foot|international\_reputation|weak\_foot|skill\_moves|work\_rate |body\_type |real\_face|release\_clause\_eur|player\_tags |team\_position|team\_jersey\_number|loaned\_from|joined |contract\_valid\_until|nation\_position|nation\_jersey\_number|pace|shooting|passing|dribbling|defending|physic|gk\_diving|gk\_handling|gk\_kicking|gk\_reflexes|gk\_speed|gk\_positioning|player\_traits |attacking\_crossing|attacking\_finishing|attacking\_heading\_accuracy|attacking\_short\_passing|attacking\_volleys|skill\_dribbling|skill\_curve|skill\_fk\_accuracy|skill\_long\_passing|skill\_ball\_control|movement\_acceleration|movement\_sprint\_speed|movement\_agility|movement\_reactions|movement\_balance|power\_shot\_power|power\_jumping|power\_stamina|power\_strength|power\_long\_shots|mentality\_aggression|mentality\_interceptions|mentality\_positioning|mentality\_vision|mentality\_penalties|mentality\_composure|defending\_marking|defending\_standing\_tackle|defending\_sliding\_tackle|goalkeeping\_diving|goalkeeping\_handling|goalkeeping\_kicking|goalkeeping\_positioning|goalkeeping\_reflexes|ls |st |rs |lw |lf |cf |rf |rw |lam |cam |ram |lm |lcm |cm |rcm |rm |lwb |ldm |cdm |rdm |rwb |lb |lcb |cb |rcb |rb |

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|158023 |https://sofifa.com/player/158023/lionel-messi/20/159586 |L. Messi |Lionel Andrés Messi Cuccittini |32 |1987-06-24 00:00:00|170 |72 |Argentina |FC Barcelona |94 |94 |95500000 |565000 |RW, CF, ST |Left |5 |4 |4 |Medium/Low |Messi |Yes |195800000 |#Dribbler, #Distance Shooter, #Crosser, #FK Specialist, #Acrobat, #Clinical Finisher, #Complete Forward |RW |10 |null |2004-07-01 00:00:00|2021 |null |null |87 |92 |92 |96 |39 |66 |null |null |null |null |null |null |Beat Offside Trap, Argues with Officials, Early Crosser, Finesse Shot, Speed Dribbler (CPU AI Only), 1-on-1 Rush, Giant Throw-in, Outside Foot Shot|88 |95 |70 |92 |88 |97 |93 |94 |92 |96 |91 |84 |93 |95 |95 |86 |68 |75 |68 |94 |48 |40 |94 |94 |75 |96 |33 |37 |26 |6 |11 |15 |14 |8 |89+2|89+2|89+2|93+2|93+2|93+2|93+2|93+2|93+2|93+2|93+2|92+2|87+2|87+2|87+2|92+2|68+2|66+2|66+2|66+2|68+2|63+2|52+2|52+2|52+2|63+2|

|20801 |https://sofifa.com/player/20801/c-ronaldo-dos-santos-aveiro/20/159586|Cristiano Ronaldo|Cristiano Ronaldo dos Santos Aveiro|34 |1985-02-05 00:00:00|187 |83 |Portugal |Juventus |93 |93 |58500000 |405000 |ST, LW |Right |5 |4 |5 |High/Low |C. Ronaldo|Yes |96500000 |#Speedster, #Dribbler, #Distance Shooter, #Acrobat, #Clinical Finisher, #Complete Forward |LW |7 |null |2018-07-10 00:00:00|2022 |LS |7 |90 |93 |82 |89 |35 |78 |null |null |null |null |null |null |Long Throw-in, Selfish, Argues with Officials, Early Crosser, Speed Dribbler (CPU AI Only), Skilled Dribbling |84 |94 |89 |83 |87 |89 |81 |76 |77 |92 |89 |91 |87 |96 |71 |95 |95 |85 |78 |93 |63 |29 |95 |82 |85 |95 |28 |32 |24 |7 |11 |15 |14 |11 |91+3|91+3|91+3|89+3|90+3|90+3|90+3|89+3|88+3|88+3|88+3|88+3|81+3|81+3|81+3|88+3|65+3|61+3|61+3|61+3|65+3|61+3|53+3|53+3|53+3|61+3|

|190871 |https://sofifa.com/player/190871/neymar-da-silva-santos-jr/20/159586 |Neymar Jr |Neymar da Silva Santos Junior |27 |1992-02-05 00:00:00|175 |68 |Brazil |Paris Saint-Germain|92 |92 |105500000|290000 |LW, CAM |Right |5 |5 |5 |High/Medium |Neymar |Yes |195200000 |#Speedster, #Dribbler, #Playmaker  , #Crosser, #FK Specialist, #Acrobat, #Clinical Finisher, #Complete Midfielder, #Complete Forward|CAM |10 |null |2017-08-03 00:00:00|2022 |LW |10 |91 |85 |87 |95 |32 |58 |null |null |null |null |null |null |Power Free-Kick, Injury Free, Selfish, Early Crosser, Speed Dribbler (CPU AI Only), Crowd Favourite |87 |87 |62 |87 |87 |96 |88 |87 |81 |95 |94 |89 |96 |92 |84 |80 |61 |81 |49 |84 |51 |36 |87 |90 |90 |94 |27 |26 |29 |9 |9 |15 |15 |11 |84+3|84+3|84+3|90+3|89+3|89+3|89+3|90+3|90+3|90+3|90+3|89+3|82+3|82+3|82+3|89+3|66+3|61+3|61+3|61+3|66+3|61+3|46+3|46+3|46+3|61+3|

|200389 |https://sofifa.com/player/200389/jan-oblak/20/159586 |J. Oblak |Jan Oblak |26 |1993-01-07 00:00:00|188 |87 |Slovenia |Atlético Madrid |91 |93 |77500000 |125000 |GK |Right |3 |3 |1 |Medium/Medium|Normal |Yes |164700000 |null |GK |13 |null |2014-07-16 00:00:00|2023 |GK |1 |null|null |null |null |null |null |87 |92 |78 |89 |52 |90 |Flair, Acrobatic Clearance |13 |11 |15 |43 |13 |12 |13 |14 |40 |30 |43 |60 |67 |88 |49 |59 |78 |41 |78 |12 |34 |19 |11 |65 |11 |68 |27 |12 |18 |87 |92 |78 |90 |89 |null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|

|183277 |https://sofifa.com/player/183277/eden-hazard/20/159586 |E. Hazard |Eden Hazard |28 |1991-01-07 00:00:00|175 |74 |Belgium |Real Madrid |91 |91 |90000000 |470000 |LW, CF |Right |4 |4 |4 |High/Medium |Normal |Yes |184500000 |#Speedster, #Dribbler, #Acrobat |LW |7 |null |2019-07-01 00:00:00|2024 |LF |10 |91 |83 |86 |94 |35 |66 |null |null |null |null |null |null |Beat Offside Trap, Selfish, Finesse Shot, Speed Dribbler (CPU AI Only), Crowd Favourite |81 |84 |61 |89 |83 |95 |83 |79 |83 |94 |94 |88 |95 |90 |94 |82 |56 |84 |63 |80 |54 |41 |87 |89 |88 |91 |34 |27 |22 |11 |12 |6 |8 |8 |83+3|83+3|83+3|89+3|88+3|88+3|88+3|89+3|89+3|89+3|89+3|89+3|83+3|83+3|83+3|89+3|66+3|63+3|63+3|63+3|66+3|61+3|49+3|49+3|49+3|61+3|

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only showing top 5 rows

[]

fifa\_df.printSchema()

**out**

root

|-- sofifa\_id: integer (nullable = true)

|-- player\_url: string (nullable = true)

|-- short\_name: string (nullable = true)

|-- long\_name: string (nullable = true)

|-- age: integer (nullable = true)

|-- dob: timestamp (nullable = true)

|-- height\_cm: integer (nullable = true)

|-- weight\_kg: integer (nullable = true)

|-- nationality: string (nullable = true)

|-- club: string (nullable = true)

|-- overall: integer (nullable = true)

|-- potential: integer (nullable = true)

|-- value\_eur: integer (nullable = true)

|-- wage\_eur: integer (nullable = true)

|-- player\_positions: string (nullable = true)

|-- preferred\_foot: string (nullable = true)

|-- international\_reputation: integer (nullable = true)

|-- weak\_foot: integer (nullable = true)

|-- skill\_moves: integer (nullable = true)

|-- work\_rate: string (nullable = true)

|-- body\_type: string (nullable = true)

|-- real\_face: string (nullable = true)

|-- release\_clause\_eur: integer (nullable = true)

|-- player\_tags: string (nullable = true)

|-- team\_position: string (nullable = true)

|-- team\_jersey\_number: integer (nullable = true)

|-- loaned\_from: string (nullable = true)

|-- joined: timestamp (nullable = true)

|-- contract\_valid\_until: integer (nullable = true)

|-- nation\_position: string (nullable = true)

|-- nation\_jersey\_number: integer (nullable = true)

|-- pace: integer (nullable = true)

|-- shooting: integer (nullable = true)

|-- passing: integer (nullable = true)

|-- dribbling: integer (nullable = true)

|-- defending: integer (nullable = true)

|-- physic: integer (nullable = true)

|-- gk\_diving: integer (nullable = true)

|-- gk\_handling: integer (nullable = true)

|-- gk\_kicking: integer (nullable = true)

|-- gk\_reflexes: integer (nullable = true)

|-- gk\_speed: integer (nullable = true)

|-- gk\_positioning: integer (nullable = true)

|-- player\_traits: string (nullable = true)

|-- attacking\_crossing: integer (nullable = true)

|-- attacking\_finishing: integer (nullable = true)

|-- attacking\_heading\_accuracy: integer (nullable = true)

|-- attacking\_short\_passing: integer (nullable = true)

|-- attacking\_volleys: integer (nullable = true)

|-- skill\_dribbling: integer (nullable = true)

|-- skill\_curve: integer (nullable = true)

|-- skill\_fk\_accuracy: integer (nullable = true)

|-- skill\_long\_passing: integer (nullable = true)

|-- skill\_ball\_control: integer (nullable = true)

|-- movement\_acceleration: integer (nullable = true)

|-- movement\_sprint\_speed: integer (nullable = true)

|-- movement\_agility: integer (nullable = true)

|-- movement\_reactions: integer (nullable = true)

|-- movement\_balance: integer (nullable = true)

|-- power\_shot\_power: integer (nullable = true)

|-- power\_jumping: integer (nullable = true)

|-- power\_stamina: integer (nullable = true)

|-- power\_strength: integer (nullable = true)

|-- power\_long\_shots: integer (nullable = true)

|-- mentality\_aggression: integer (nullable = true)

|-- mentality\_interceptions: integer (nullable = true)

|-- mentality\_positioning: integer (nullable = true)

|-- mentality\_vision: integer (nullable = true)

|-- mentality\_penalties: integer (nullable = true)

|-- mentality\_composure: integer (nullable = true)

|-- defending\_marking: integer (nullable = true)

|-- defending\_standing\_tackle: integer (nullable = true)

|-- defending\_sliding\_tackle: integer (nullable = true)

|-- goalkeeping\_diving: integer (nullable = true)

|-- goalkeeping\_handling: integer (nullable = true)

|-- goalkeeping\_kicking: integer (nullable = true)

|-- goalkeeping\_positioning: integer (nullable = true)

|-- goalkeeping\_reflexes: integer (nullable = true)

|-- ls: string (nullable = true)

|-- st: string (nullable = true)

|-- rs: string (nullable = true)

|-- lw: string (nullable = true)

|-- lf: string (nullable = true)

|-- cf: string (nullable = true)

|-- rf: string (nullable = true)

|-- rw: string (nullable = true)

|-- lam: string (nullable = true)

|-- cam: string (nullable = true)

|-- ram: string (nullable = true)

|-- lm: string (nullable = true)

|-- lcm: string (nullable = true)

|-- cm: string (nullable = true)

|-- rcm: string (nullable = true)

|-- rm: string (nullable = true)

|-- lwb: string (nullable = true)

|-- ldm: string (nullable = true)

|-- cdm: string (nullable = true)

|-- rdm: string (nullable = true)

|-- rwb: string (nullable = true)

|-- lb: string (nullable = true)

|-- lcb: string (nullable = true)

|-- cb: string (nullable = true)

|-- rcb: string (nullable = true)

|-- rb: string (nullable = true)

[]

print("El numero de filas es",fifa\_df.count(),

"el numero de columnas",len(fifa\_df.columns))

**out**

El numero de filas es 18278 el numero de columnas 104

[]

fifa\_df.dtypes

**out**

[('sofifa\_id', 'int'),

('player\_url', 'string'),

('short\_name', 'string'),

('long\_name', 'string'),

('age', 'int'),

('dob', 'timestamp'),

('height\_cm', 'int'),

('weight\_kg', 'int'),

('nationality', 'string'),

('club', 'string'),

('overall', 'int'),

('potential', 'int'),

('value\_eur', 'int'),

('wage\_eur', 'int'),

('player\_positions', 'string'),

('preferred\_foot', 'string'),

('international\_reputation', 'int'),

('weak\_foot', 'int'),

('skill\_moves', 'int'),

('work\_rate', 'string'),

('body\_type', 'string'),

('real\_face', 'string'),

('release\_clause\_eur', 'int'),

('player\_tags', 'string'),

('team\_position', 'string'),

('team\_jersey\_number', 'int'),

('loaned\_from', 'string'),

('joined', 'timestamp'),

('contract\_valid\_until', 'int'),

('nation\_position', 'string'),

('nation\_jersey\_number', 'int'),

('pace', 'int'),

('shooting', 'int'),

('passing', 'int'),

('dribbling', 'int'),

('defending', 'int'),

('physic', 'int'),

('gk\_diving', 'int'),

('gk\_handling', 'int'),

('gk\_kicking', 'int'),

('gk\_reflexes', 'int'),

('gk\_speed', 'int'),

('gk\_positioning', 'int'),

('player\_traits', 'string'),

('attacking\_crossing', 'int'),

('attacking\_finishing', 'int'),

('attacking\_heading\_accuracy', 'int'),

('attacking\_short\_passing', 'int'),

('attacking\_volleys', 'int'),

('skill\_dribbling', 'int'),

('skill\_curve', 'int'),

('skill\_fk\_accuracy', 'int'),

('skill\_long\_passing', 'int'),

('skill\_ball\_control', 'int'),

('movement\_acceleration', 'int'),

('movement\_sprint\_speed', 'int'),

('movement\_agility', 'int'),

('movement\_reactions', 'int'),

('movement\_balance', 'int'),

('power\_shot\_power', 'int'),

('power\_jumping', 'int'),

('power\_stamina', 'int'),

('power\_strength', 'int'),

('power\_long\_shots', 'int'),

('mentality\_aggression', 'int'),

('mentality\_interceptions', 'int'),

('mentality\_positioning', 'int'),

('mentality\_vision', 'int'),

('mentality\_penalties', 'int'),

('mentality\_composure', 'int'),

('defending\_marking', 'int'),

('defending\_standing\_tackle', 'int'),

('defending\_sliding\_tackle', 'int'),

('goalkeeping\_diving', 'int'),

('goalkeeping\_handling', 'int'),

('goalkeeping\_kicking', 'int'),

('goalkeeping\_positioning', 'int'),

('goalkeeping\_reflexes', 'int'),

('ls', 'string'),

('st', 'string'),

('rs', 'string'),

('lw', 'string'),

('lf', 'string'),

('cf', 'string'),

('rf', 'string'),

('rw', 'string'),

('lam', 'string'),

('cam', 'string'),

('ram', 'string'),

('lm', 'string'),

('lcm', 'string'),

('cm', 'string'),

('rcm', 'string'),

('rm', 'string'),

('lwb', 'string'),

('ldm', 'string'),

('cdm', 'string'),

('rdm', 'string'),

('rwb', 'string'),

('lb', 'string'),

('lcb', 'string'),

('cb', 'string'),

('rcb', 'string'),

('rb', 'string')]

[]

fifa\_df.describe("age").show()

**out**

+-------+------------------+

|summary| age|

+-------+------------------+

| count| 18278|

| mean|25.283291388554545|

| stddev| 4.656964497822092|

| min| 16|

| max| 42|

+-------+------------------+

[]

fifa\_df.describe("height\_cm").show()

**out**

+-------+------------------+

|summary| height\_cm|

+-------+------------------+

| count| 18278|

| mean|181.36218404639456|

| stddev| 6.756961363700417|

| min| 156|

| max| 205|

+-------+------------------+

[]

fifa\_df.select(["long\_name","club","nationality"]).show(n=10,

truncate=False)

**out**

+-----------------------------------+-------------------+-----------+

|long\_name |club |nationality|

+-----------------------------------+-------------------+-----------+

|Lionel Andrés Messi Cuccittini |FC Barcelona |Argentina |

|Cristiano Ronaldo dos Santos Aveiro|Juventus |Portugal |

|Neymar da Silva Santos Junior |Paris Saint-Germain|Brazil |

|Jan Oblak |Atlético Madrid |Slovenia |

|Eden Hazard |Real Madrid |Belgium |

|Kevin De Bruyne |Manchester City |Belgium |

|Marc-André ter Stegen |FC Barcelona |Germany |

|Virgil van Dijk |Liverpool |Netherlands|

|Luka Modrić |Real Madrid |Croatia |

|Mohamed Salah Ghaly |Liverpool |Egypt |

+-----------------------------------+-------------------+-----------+

only showing top 10 rows

[]

fifa\_df.select(["nationality"]).distinct().show(n=10,truncate=False)

**out**

+--------------+

|nationality |

+--------------+

|Chad |

|Russia |

|Paraguay |

|Chinese Taipei|

|Senegal |

|Sweden |

|Guyana |

|Philippines |

|Eritrea |

|Turkey |

+--------------+

only showing top 10 rows

[]

fifa\_df.select(["club","nationality"]).distinct().show(n**=**10,truncate**=False**)

**out**

+------------------+-------------+

|club |nationality |

+------------------+-------------+

|Juventus |Argentina |

|Manchester United |England |

|Sevilla FC |Denmark |

|Watford |Argentina |

|RCD Espanyol |Argentina |

|Beşiktaş JK |Canada |

|Atiker Konyaspor |Turkey |

|New York Red Bulls|United States|

|Molde FK |Norway |

|Vitesse |South Africa |

+------------------+-------------+

only showing top 10 rows

[]

print("El total de duplicado por edad are {:d} out of {:d}".

format(fifa\_df.count()**-**fifa\_df.dropDuplicates(["age"])

.count(),fifa\_df.count()))

**out**

El total de duplicado por edad are 18251 out of 18278

[]

fifa\_df.filter(fifa\_df.team\_jersey\_number**==**10)

.show(n**=**10, truncate**=True**)

**out**

+---------+--------------------+----------+--------------------+---+-------------------+---------+---------+-----------+-------------------+-------+---------+---------+--------+----------------+--------------+------------------------+---------+-----------+-------------+---------+---------+------------------+--------------------+-------------+------------------+------------+-------------------+--------------------+---------------+--------------------+----+--------+-------+---------+---------+------+---------+-----------+----------+-----------+--------+--------------+--------------------+------------------+-------------------+--------------------------+-----------------------+-----------------+---------------+-----------+-----------------+------------------+------------------+---------------------+---------------------+----------------+------------------+----------------+----------------+-------------+-------------+--------------+----------------+--------------------+-----------------------+---------------------+----------------+-------------------+-------------------+-----------------+-------------------------+------------------------+------------------+--------------------+-------------------+-----------------------+--------------------+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+

|sofifa\_id| player\_url|short\_name| long\_name|age| dob|height\_cm|weight\_kg|nationality| club|overall|potential|value\_eur|wage\_eur|player\_positions|preferred\_foot|international\_reputation|weak\_foot|skill\_moves| work\_rate|body\_type|real\_face|release\_clause\_eur| player\_tags|team\_position|team\_jersey\_number| loaned\_from| joined|contract\_valid\_until|nation\_position|nation\_jersey\_number|pace|shooting|passing|dribbling|defending|physic|gk\_diving|gk\_handling|gk\_kicking|gk\_reflexes|gk\_speed|gk\_positioning| player\_traits|attacking\_crossing|attacking\_finishing|attacking\_heading\_accuracy|attacking\_short\_passing|attacking\_volleys|skill\_dribbling|skill\_curve|skill\_fk\_accuracy|skill\_long\_passing|skill\_ball\_control|movement\_acceleration|movement\_sprint\_speed|movement\_agility|movement\_reactions|movement\_balance|power\_shot\_power|power\_jumping|power\_stamina|power\_strength|power\_long\_shots|mentality\_aggression|mentality\_interceptions|mentality\_positioning|mentality\_vision|mentality\_penalties|mentality\_composure|defending\_marking|defending\_standing\_tackle|defending\_sliding\_tackle|goalkeeping\_diving|goalkeeping\_handling|goalkeeping\_kicking|goalkeeping\_positioning|goalkeeping\_reflexes| ls| st| rs| lw| lf| cf| rf| rw| lam| cam| ram| lm| lcm| cm| rcm| rm| lwb| ldm| cdm| rdm| rwb| lb| lcb| cb| rcb| rb|

+---------+--------------------+----------+--------------------+---+-------------------+---------+---------+-----------+-------------------+-------+---------+---------+--------+----------------+--------------+------------------------+---------+-----------+-------------+---------+---------+------------------+--------------------+-------------+------------------+------------+-------------------+--------------------+---------------+--------------------+----+--------+-------+---------+---------+------+---------+-----------+----------+-----------+--------+--------------+--------------------+------------------+-------------------+--------------------------+-----------------------+-----------------+---------------+-----------+-----------------+------------------+------------------+---------------------+---------------------+----------------+------------------+----------------+----------------+-------------+-------------+--------------+----------------+--------------------+-----------------------+---------------------+----------------+-------------------+-------------------+-----------------+-------------------------+------------------------+------------------+--------------------+-------------------+-----------------------+--------------------+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+

| 158023|https://sofifa.co...| L. Messi|Lionel Andrés Mes...| 32|1987-06-24 00:00:00| 170| 72| Argentina| FC Barcelona| 94| 94| 95500000| 565000| RW, CF, ST| Left| 5| 4| 4| Medium/Low| Messi| Yes| 195800000|#Dribbler, #Dista...| RW| 10| null|2004-07-01 00:00:00| 2021| null| null| 87| 92| 92| 96| 39| 66| null| null| null| null| null| null|Beat Offside Trap...| 88| 95| 70| 92| 88| 97| 93| 94| 92| 96| 91| 84| 93| 95| 95| 86| 68| 75| 68| 94| 48| 40| 94| 94| 75| 96| 33| 37| 26| 6| 11| 15| 14| 8|89+2|89+2|89+2|93+2|93+2|93+2|93+2|93+2|93+2|93+2|93+2|92+2|87+2|87+2|87+2|92+2|68+2|66+2|66+2|66+2|68+2|63+2|52+2|52+2|52+2|63+2|

| 190871|https://sofifa.co...| Neymar Jr|Neymar da Silva S...| 27|1992-02-05 00:00:00| 175| 68| Brazil|Paris Saint-Germain| 92| 92|105500000| 290000| LW, CAM| Right| 5| 5| 5| High/Medium| Neymar| Yes| 195200000|#Speedster, #Drib...| CAM| 10| null|2017-08-03 00:00:00| 2022| LW| 10| 91| 85| 87| 95| 32| 58| null| null| null| null| null| null|Power Free-Kick, ...| 87| 87| 62| 87| 87| 96| 88| 87| 81| 95| 94| 89| 96| 92| 84| 80| 61| 81| 49| 84| 51| 36| 87| 90| 90| 94| 27| 26| 29| 9| 9| 15| 15| 11|84+3|84+3|84+3|90+3|89+3|89+3|89+3|90+3|90+3|90+3|90+3|89+3|82+3|82+3|82+3|89+3|66+3|61+3|61+3|61+3|66+3|61+3|46+3|46+3|46+3|61+3|

| 177003|https://sofifa.co...| L. Modrić| Luka Modrić| 33|1985-09-09 00:00:00| 172| 66| Croatia| Real Madrid| 90| 90| 45000000| 340000| CM| Right| 4| 4| 4| High/High| Lean| Yes| 92300000|#Dribbler, #Playm...| RCM| 10| null|2012-08-01 00:00:00| 2020| null| null| 74| 76| 89| 89| 72| 66| null| null| null| null| null| null|Argues with Offic...| 86| 72| 55| 92| 76| 87| 85| 78| 88| 92| 77| 71| 92| 89| 93| 79| 68| 85| 58| 82| 62| 82| 79| 91| 82| 92| 68| 76| 71| 13| 9| 7| 14| 9|77+3|77+3|77+3|84+3|83+3|83+3|83+3|84+3|86+3|86+3|86+3|85+3|87+3|87+3|87+3|85+3|81+3|81+3|81+3|81+3|81+3|79+3|72+3|72+3|72+3|79+3|

| 202126|https://sofifa.co...| H. Kane| Harry Kane| 25|1993-07-28 00:00:00| 188| 89| England| Tottenham Hotspur| 89| 91| 83000000| 220000| ST| Right| 3| 4| 3| High/High| Normal| Yes| 159800000|#Engine, #Distanc...| ST| 10| null|2010-07-01 00:00:00| 2024| ST| 9| 70| 91| 79| 81| 47| 83| null| null| null| null| null| null|Injury Free, Avoi...| 75| 94| 86| 81| 85| 80| 78| 68| 83| 84| 68| 72| 71| 91| 73| 90| 79| 87| 84| 86| 78| 35| 93| 81| 90| 91| 56| 36| 38| 8| 10| 11| 14| 11|86+3|86+3|86+3|82+3|84+3|84+3|84+3|82+3|83+3|83+3|83+3|82+3|79+3|79+3|79+3|82+3|65+3|66+3|66+3|66+3|65+3|62+3|60+3|60+3|60+3|62+3|

| 153079|https://sofifa.co...| S. Agüero|Sergio Leonel Agü...| 31|1988-06-02 00:00:00| 173| 70| Argentina| Manchester City| 89| 89| 60000000| 300000| ST| Right| 4| 4| 4| High/Medium| Stocky| Yes| 111000000|#Dribbler, #Clini...| ST| 10| null|2011-07-28 00:00:00| 2021| ST| 9| 80| 90| 77| 88| 33| 74| null| null| null| null| null| null|Avoids Using Weak...| 70| 93| 78| 83| 85| 88| 83| 73| 64| 89| 82| 78| 84| 92| 91| 89| 81| 79| 74| 84| 65| 24| 93| 83| 83| 90| 30| 29| 24| 13| 15| 6| 11| 14|87+3|87+3|87+3|85+3|87+3|87+3|87+3|85+3|85+3|85+3|85+3|83+3|77+3|77+3|77+3|83+3|60+3|58+3|58+3|58+3|60+3|56+3|50+3|50+3|50+3|56+3|

| 211110|https://sofifa.co...| P. Dybala|Paulo Bruno Exequ...| 25|1993-11-15 00:00:00| 177| 75| Argentina| Juventus| 88| 92| 76500000| 215000| CAM, RW| Left| 3| 3| 4|Medium/Medium| Normal| Yes| 132000000|#Dribbler, #Playm...| RW| 10| null|2015-07-01 00:00:00| 2022| CF| 21| 83| 82| 84| 90| 43| 64| null| null| null| null| null| null|Beat Offside Trap...| 82| 80| 64| 87| 88| 90| 88| 88| 75| 93| 86| 81| 91| 84| 85| 80| 75| 79| 61| 86| 48| 42| 80| 87| 86| 84| 32| 48| 40| 5| 4| 4| 5| 8|80+3|80+3|80+3|85+3|85+3|85+3|85+3|85+3|86+3|86+3|86+3|85+3|80+3|80+3|80+3|85+3|68+3|64+3|64+3|64+3|68+3|64+3|54+3|54+3|54+3|64+3|

| 208722|https://sofifa.co...| S. Mané| Sadio Mané| 27|1992-04-10 00:00:00| 175| 69| Senegal| Liverpool| 88| 88| 62000000| 220000| LW, LM| Right| 3| 4| 4| High/Medium| Normal| Yes| 114700000|#Speedster, #Drib...| LW| 10| null|2016-07-01 00:00:00| 2023| null| null| 94| 83| 77| 89| 44| 74| null| null| null| null| null| null|Selfish, Early Cr...| 74| 87| 81| 81| 75| 89| 76| 64| 71| 87| 95| 93| 92| 90| 86| 84| 86| 85| 67| 77| 75| 35| 90| 83| 71| 84| 42| 42| 38| 10| 10| 15| 7| 14|85+3|85+3|85+3|86+3|87+3|87+3|87+3|86+3|85+3|85+3|85+3|85+3|78+3|78+3|78+3|85+3|67+3|63+3|63+3|63+3|67+3|64+3|57+3|57+3|57+3|64+3|

| 189242|https://sofifa.co...| Coutinho|Philippe Coutinho...| 27|1992-06-12 00:00:00| 172| 68| Brazil| FC Bayern München| 86| 86| 46500000| 175000| LW, CM| Right| 3| 4| 5| High/Medium| Normal| Yes| null|#Dribbler, #FK Sp...| LCM| 10|FC Barcelona| null| 2020| null| null| 79| 80| 84| 90| 52| 64| null| null| null| null| null| null|Injury Free, Self...| 79| 77| 48| 84| 78| 90| 90| 86| 82| 91| 84| 75| 92| 82| 93| 82| 59| 76| 61| 88| 59| 49| 84| 86| 70| 77| 55| 54| 47| 12| 7| 9| 14| 6|78+3|78+3|78+3|84+3|83+3|83+3|83+3|84+3|85+3|85+3|85+3|83+3|81+3|81+3|81+3|83+3|70+3|68+3|68+3|68+3|70+3|66+3|58+3|58+3|58+3|66+3|

| 189513|https://sofifa.co...| Parejo| Daniel Parejo Muñoz| 30|1989-04-16 00:00:00| 182| 74| Spain| Valencia CF| 86| 86| 41000000| 69000| CM| Right| 2| 4| 3|Medium/Medium| Lean| Yes| 86100000|#Playmaker  , #FK...| RCM| 10| null|2011-07-01 00:00:00| 2022| null| null| 41| 80| 88| 79| 70| 69| null| null| null| null| null| null|Diver, Leadership...| 84| 80| 61| 91| 72| 79| 89| 90| 88| 85| 49| 35| 64| 78| 72| 79| 49| 76| 71| 82| 58| 81| 81| 86| 83| 85| 69| 68| 65| 5| 9| 12| 14| 8|74+2|74+2|74+2|76+2|77+2|77+2|77+2|76+2|80+2|80+2|80+2|77+2|83+2|83+2|83+2|77+2|74+2|78+2|78+2|78+2|74+2|71+2|69+2|69+2|69+2|71+2|

| 143076|https://sofifa.co...| A. Gómez|Alejandro Darío G...| 31|1988-02-15 00:00:00| 165| 68| Argentina| Atalanta| 85| 85| 34000000| 92000| CAM, CF, ST| Right| 3| 4| 4| High/Medium| Normal| No| 57800000| #Acrobat| CAM| 10| null|2014-09-02 00:00:00| 2022| null| null| 89| 78| 81| 86| 39| 55| null| null| null| null| null| null|Argues with Offic...| 81| 79| 38| 81| 72| 85| 79| 79| 74| 85| 94| 85| 92| 81| 94| 76| 70| 70| 46| 79| 56| 40| 82| 85| 72| 84| 50| 30| 34| 8| 11| 12| 9| 6|75+3|75+3|75+3|83+3|82+3|82+3|82+3|83+3|83+3|83+3|83+3|82+3|76+3|76+3|76+3|82+3|64+3|60+3|60+3|60+3|64+3|60+3|48+3|48+3|48+3|60+3|

+---------+--------------------+----------+--------------------+---+-------------------+---------+---------+-----------+-------------------+-------+---------+---------+--------+----------------+--------------+------------------------+---------+-----------+-------------+---------+---------+------------------+--------------------+-------------+------------------+------------+-------------------+--------------------+---------------+--------------------+----+--------+-------+---------+---------+------+---------+-----------+----------+-----------+--------+--------------+--------------------+------------------+-------------------+--------------------------+-----------------------+-----------------+---------------+-----------+-----------------+------------------+------------------+---------------------+---------------------+----------------+------------------+----------------+----------------+-------------+-------------+--------------+----------------+--------------------+-----------------------+---------------------+----------------+-------------------+-------------------+-----------------+-------------------------+------------------------+------------------+--------------------+-------------------+-----------------------+--------------------+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+

only showing top 10 rows

[]

print("El total de jugadores con la #10 es",

fifa\_df.filter(fifa\_df.team\_jersey\_number==10).count())

**out**

El total de jugadores con la #10 es 581

[]

fifa\_df.filter((fifa\_df.nationality=="Peru")).show()

**out**

+---------+--------------------+------------+--------------------+---+-------------------+---------+---------+-----------+--------------------+-------+---------+---------+--------+----------------+--------------+------------------------+---------+-----------+-------------+---------+---------+------------------+-----------+-------------+------------------+-----------+-------------------+--------------------+---------------+--------------------+----+--------+-------+---------+---------+------+---------+-----------+----------+-----------+--------+--------------+--------------------+------------------+-------------------+--------------------------+-----------------------+-----------------+---------------+-----------+-----------------+------------------+------------------+---------------------+---------------------+----------------+------------------+----------------+----------------+-------------+-------------+--------------+----------------+--------------------+-----------------------+---------------------+----------------+-------------------+-------------------+-----------------+-------------------------+------------------------+------------------+--------------------+-------------------+-----------------------+--------------------+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+

|sofifa\_id| player\_url| short\_name| long\_name|age| dob|height\_cm|weight\_kg|nationality| club|overall|potential|value\_eur|wage\_eur|player\_positions|preferred\_foot|international\_reputation|weak\_foot|skill\_moves| work\_rate|body\_type|real\_face|release\_clause\_eur|player\_tags|team\_position|team\_jersey\_number|loaned\_from| joined|contract\_valid\_until|nation\_position|nation\_jersey\_number|pace|shooting|passing|dribbling|defending|physic|gk\_diving|gk\_handling|gk\_kicking|gk\_reflexes|gk\_speed|gk\_positioning| player\_traits|attacking\_crossing|attacking\_finishing|attacking\_heading\_accuracy|attacking\_short\_passing|attacking\_volleys|skill\_dribbling|skill\_curve|skill\_fk\_accuracy|skill\_long\_passing|skill\_ball\_control|movement\_acceleration|movement\_sprint\_speed|movement\_agility|movement\_reactions|movement\_balance|power\_shot\_power|power\_jumping|power\_stamina|power\_strength|power\_long\_shots|mentality\_aggression|mentality\_interceptions|mentality\_positioning|mentality\_vision|mentality\_penalties|mentality\_composure|defending\_marking|defending\_standing\_tackle|defending\_sliding\_tackle|goalkeeping\_diving|goalkeeping\_handling|goalkeeping\_kicking|goalkeeping\_positioning|goalkeeping\_reflexes| ls| st| rs| lw| lf| cf| rf| rw| lam| cam| ram| lm| lcm| cm| rcm| rm| lwb| ldm| cdm| rdm| rwb| lb| lcb| cb| rcb| rb|

+---------+--------------------+------------+--------------------+---+-------------------+---------+---------+-----------+--------------------+-------+---------+---------+--------+----------------+--------------+------------------------+---------+-----------+-------------+---------+---------+------------------+-----------+-------------+------------------+-----------+-------------------+--------------------+---------------+--------------------+----+--------+-------+---------+---------+------+---------+-----------+----------+-----------+--------+--------------+--------------------+------------------+-------------------+--------------------------+-----------------------+-----------------+---------------+-----------+-----------------+------------------+------------------+---------------------+---------------------+----------------+------------------+----------------+----------------+-------------+-------------+--------------+----------------+--------------------+-----------------------+---------------------+----------------+-------------------+-------------------+-----------------+-------------------------+------------------------+------------------+--------------------+-------------------+-----------------------+--------------------+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+

| 203299|https://sofifa.co...| A. Carrillo|André Martín Carr...| 28|1991-06-14 00:00:00| 181| 78| Peru| Al Hilal| 78| 78| 10500000| 43000| RM| Right| 2| 4| 4|Medium/Medium| Normal| Yes| 17900000| null| RM| 19| null|2019-07-23 00:00:00| 2023| RM| 18| 86| 74| 72| 83| 34| 67| null| null| null| null| null| null|Selfish, Early Cr...| 78| 73| 70| 73| 74| 85| 78| 55| 62| 82| 86| 86| 81| 74| 75| 76| 73| 67| 72| 75| 53| 34| 74| 73| 68| 73| 26| 32| 25| 11| 14| 13| 12| 7|76+2|76+2|76+2|78+2|77+2|77+2|77+2|78+2|76+2|76+2|76+2|77+2|69+2|69+2|69+2|77+2|59+2|54+2|54+2|54+2|59+2|55+2|48+2|48+2|48+2|55+2|

| 158133|https://sofifa.co...| J. Farfán|Jefferson Agustín...| 34|1984-10-26 00:00:00| 178| 84| Peru| Lokomotiv Moscow| 77| 77| 4500000| 1000| RM, ST| Right| 2| 3| 4| Medium/Low| Normal| Yes| 9400000| null| SUB| 8| null|2017-01-29 00:00:00| 2020| CAM| 10| 84| 73| 75| 75| 36| 75| null| null| null| null| null| null|Power Free-Kick, ...| 76| 73| 72| 73| 69| 74| 82| 75| 72| 79| 84| 84| 75| 77| 66| 75| 76| 72| 78| 72| 73| 39| 75| 78| 79| 80| 17| 43| 29| 15| 12| 5| 12| 15|75+2|75+2|75+2|76+2|76+2|76+2|76+2|76+2|75+2|75+2|75+2|76+2|71+2|71+2|71+2|76+2|59+2|58+2|58+2|58+2|59+2|57+2|52+2|52+2|52+2|57+2|

| 204538|https://sofifa.co...| R. Ruidíaz|Raúl Mario Ruidía...| 28|1990-07-25 00:00:00| 169| 66| Peru| Seattle Sounders FC| 76| 76| 8000000| 10000| ST| Right| 1| 4| 4| High/Medium| Lean| Yes| 12000000| null| ST| 9| null|2018-07-01 00:00:00| 2021| ST| 11| 80| 77| 64| 76| 32| 61| null| null| null| null| null| null|Long Throw-in, Ar...| 67| 80| 74| 66| 71| 76| 66| 69| 53| 74| 76| 83| 81| 70| 79| 76| 75| 75| 52| 73| 62| 28| 80| 65| 70| 75| 34| 22| 23| 12| 9| 9| 11| 12|74+2|74+2|74+2|74+2|74+2|74+2|74+2|74+2|72+2|72+2|72+2|72+2|64+2|64+2|64+2|72+2|54+2|49+2|49+2|49+2|54+2|51+2|45+2|45+2|45+2|51+2|

| 25420|https://sofifa.co...| C. Pizarro|Claudio Miguel Pi...| 40|1978-10-03 00:00:00| 184| 84| Peru| SV Werder Bremen| 75| 75| 0| 20000| ST| Right| 3| 4| 4| Medium/Low| Normal| No| null| null| SUB| 14| null|2018-07-29 00:00:00| 2020| null| null| 34| 77| 73| 75| 37| 64| null| null| null| null| null| null|Power Free-Kick, ...| 62| 79| 77| 77| 73| 76| 76| 65| 74| 78| 35| 34| 65| 78| 54| 75| 64| 34| 77| 73| 69| 31| 81| 79| 81| 87| 35| 33| 24| 8| 7| 11| 11| 14|73+3|73+3|73+3|70+3|73+3|73+3|73+3|70+3|74+3|74+3|74+3|68+3|70+3|70+3|70+3|68+3|48+3|55+3|55+3|55+3|48+3|46+3|50+3|50+3|50+3|46+3|

| 220673|https://sofifa.co...| R. Tapia| Renato Tapia| 23|1995-07-28 00:00:00| 185| 78| Peru| Feyenoord| 74| 79| 7000000| 10000| CDM, CM| Right| 1| 4| 3|Medium/Medium| Stocky| No| 11000000| null| LCM| 20| null|2016-01-27 00:00:00| 2020| RDM| 13| 70| 56| 67| 74| 72| 79| null| null| null| null| null| null| null| 60| 46| 70| 71| 63| 76| 65| 54| 75| 75| 74| 67| 69| 68| 67| 71| 80| 78| 78| 60| 82| 70| 62| 66| 61| 66| 71| 74| 75| 16| 14| 7| 15| 8|65+2|65+2|65+2|67+2|67+2|67+2|67+2|67+2|68+2|68+2|68+2|68+2|70+2|70+2|70+2|68+2|71+2|73+2|73+2|73+2|71+2|71+2|73+2|73+2|73+2|71+2|

| 225706|https://sofifa.co...| M. Trauco| Miguel Trauco| 26|1992-08-25 00:00:00| 175| 62| Peru| AS Saint-Étienne| 74| 75| 5500000| 24000| LB, LM| Left| 1| 3| 3|Medium/Medium| Stocky| No| 10900000| null| LB| 13| null|2019-08-06 00:00:00| 2023| SUB| 6| 68| 49| 73| 75| 71| 79| null| null| null| null| null| null| null| 74| 33| 48| 76| 35| 76| 74| 64| 73| 75| 69| 67| 70| 71| 71| 69| 66| 80| 79| 64| 79| 72| 68| 69| 47| 67| 73| 76| 74| 12| 10| 12| 10| 8|61+2|61+2|61+2|68+2|66+2|66+2|66+2|68+2|69+2|69+2|69+2|70+2|72+2|72+2|72+2|70+2|73+2|74+2|74+2|74+2|73+2|72+2|71+2|71+2|71+2|72+2|

| 187132|https://sofifa.co...| C. Zambrano|Carlos Augusto Za...| 29|1989-07-10 00:00:00| 185| 83| Peru| Peru| 74| 74| 0| 0| CB| Right| 2| 3| 2| Medium/High| Normal| No| null| null| null| null| null| null| null| SUB| 15| 58| 48| 57| 66| 74| 73| null| null| null| null| null| null| Injury Prone| 51| 41| 74| 68| 36| 66| 36| 33| 68| 67| 62| 54| 65| 65| 59| 63| 77| 60| 73| 54| 90| 69| 44| 45| 44| 73| 74| 75| 76| 14| 12| 13| 12| 14|57+2|57+2|57+2|57+2|57+2|57+2|57+2|57+2|58+2|58+2|58+2|58+2|61+2|61+2|61+2|58+2|65+2|69+2|69+2|69+2|65+2|66+2|73+2|73+2|73+2|66+2|

| 204539|https://sofifa.co...|L. Advíncula|Luis Jan Piers Ad...| 29|1990-03-02 00:00:00| 178| 80| Peru| Rayo Vallecano| 74| 74| 4600000| 8000| RB, RWB| Right| 1| 4| 3| High/Medium| Normal| Yes| 7400000| #Speedster| SUB| 17| null|2019-07-29 00:00:00| 2022| RB| 17| 94| 64| 70| 76| 66| 76| null| null| null| null| null| null| Early Crosser| 75| 58| 62| 73| 59| 76| 77| 63| 67| 74| 94| 94| 81| 69| 76| 76| 74| 85| 75| 68| 70| 63| 68| 60| 64| 60| 66| 70| 67| 11| 12| 13| 15| 11|70+2|70+2|70+2|73+2|71+2|71+2|71+2|73+2|71+2|71+2|71+2|74+2|69+2|69+2|69+2|74+2|73+2|69+2|69+2|69+2|73+2|73+2|68+2|68+2|68+2|73+2|

| 204542|https://sofifa.co...| Y. Yotún|Víctor Yoshimar Y...| 29|1990-04-07 00:00:00| 173| 68| Peru| Cruz Azul| 74| 74| 5500000| 23000| CM, LM, LB| Left| 1| 1| 3| Medium/High| Stocky| Yes| 9400000| null| LDM| 19| null|2019-01-01 00:00:00| 2019| LDM| 19| 65| 63| 76| 74| 64| 71| null| null| null| null| null| null|Inflexible, Argue...| 77| 58| 53| 77| 61| 72| 69| 69| 75| 73| 67| 63| 83| 70| 77| 75| 77| 85| 60| 64| 79| 62| 69| 79| 51| 74| 69| 63| 66| 7| 8| 16| 11| 7|65+2|65+2|65+2|70+2|69+2|69+2|69+2|70+2|72+2|72+2|72+2|72+2|73+2|73+2|73+2|72+2|70+2|70+2|70+2|70+2|70+2|68+2|65+2|65+2|65+2|68+2|

| 236264|https://sofifa.co...| P. Aquino| Pedro Aquino| 24|1995-04-13 00:00:00| 175| 71| Peru| Club León| 73| 78| 4900000| 18000| CDM, CM| Right| 1| 3| 2| Medium/High| Lean| No| 8600000| null| SUB| 18| null|2018-07-01 00:00:00| 2019| null| null| 77| 59| 67| 67| 70| 73| null| null| null| null| null| null| null| 53| 62| 58| 75| 22| 60| 49| 58| 74| 74| 77| 77| 78| 68| 76| 65| 57| 81| 68| 52| 79| 72| 59| 66| 64| 68| 74| 68| 67| 13| 7| 5| 8| 15|64+2|64+2|64+2|66+2|66+2|66+2|66+2|66+2|67+2|67+2|67+2|67+2|69+2|69+2|69+2|67+2|70+2|72+2|72+2|72+2|70+2|70+2|69+2|69+2|69+2|70+2|

| 211124|https://sofifa.co...| P. Hurtado|Christopher Paolo...| 28|1990-07-27 00:00:00| 176| 72| Peru| Atiker Konyaspor| 73| 73| 4000000| 16000| CAM| Right| 1| 4| 4| Medium/Low| Normal| No| 8100000| null| CAM| 16| null|2018-08-06 00:00:00| 2021| SUB| 7| 81| 71| 71| 75| 44| 59| null| null| null| null| null| null|Injury Free, Crow...| 70| 69| 72| 71| 70| 75| 68| 72| 70| 76| 78| 83| 75| 67| 73| 76| 80| 65| 60| 71| 42| 45| 68| 71| 69| 70| 48| 34| 28| 7| 12| 16| 11| 9|71+2|71+2|71+2|72+2|72+2|72+2|72+2|72+2|72+2|72+2|72+2|72+2|67+2|67+2|67+2|72+2|59+2|56+2|56+2|56+2|59+2|56+2|51+2|51+2|51+2|56+2|

| 234178|https://sofifa.co...| L. Abram| Luis Abram| 23|1996-02-27 00:00:00| 181| 76| Peru| Vélez Sarsfield| 72| 81| 4400000| 9000| CB| Left| 1| 3| 2|Medium/Medium| Normal| No| 7400000| null| LCB| 29| null|2018-01-18 00:00:00| 2021| LCB| 2| 63| 41| 54| 55| 72| 74| null| null| null| null| null| null| null| 43| 39| 73| 69| 35| 53| 49| 33| 51| 57| 61| 65| 55| 60| 49| 51| 91| 75| 73| 37| 69| 76| 43| 45| 35| 57| 70| 73| 69| 10| 9| 13| 6| 12|53+2|53+2|53+2|52+2|52+2|52+2|52+2|52+2|53+2|53+2|53+2|54+2|57+2|57+2|57+2|54+2|64+2|66+2|66+2|66+2|64+2|66+2|71+2|71+2|71+2|66+2|

| 210112|https://sofifa.co...|C. Benavente| Cristian Benavente| 25|1994-05-19 00:00:00| 172| 68| Peru| FC Nantes| 72| 76| 4000000| 17000| CAM, LM, CF| Left| 1| 5| 4| Medium/Low| Normal| No| 8300000| null| SUB| 10| null|2019-01-22 00:00:00| 2022| SUB| 8| 73| 69| 68| 74| 34| 45| null| null| null| null| null| null|Selfish, Crowd Fa...| 65| 69| 46| 71| 66| 75| 71| 65| 66| 70| 77| 69| 77| 68| 82| 68| 70| 53| 42| 71| 37| 30| 71| 68| 58| 72| 23| 43| 37| 9| 6| 15| 12| 7|66+2|66+2|66+2|70+2|70+2|70+2|70+2|70+2|70+2|70+2|70+2|69+2|65+2|65+2|65+2|69+2|54+2|51+2|51+2|51+2|54+2|51+2|42+2|42+2|42+2|51+2|

| 225701|https://sofifa.co...| P. Gallese| Pedro Gallese| 29|1990-02-23 00:00:00| 189| 78| Peru| Peru| 72| 72| 0| 0| GK| Right| 1| 3| 1|Medium/Medium| Normal| No| null| null| null| null| null| null| null| GK| 1|null| null| null| null| null| null| 74| 67| 69| 73| 47| 69| null| 21| 20| 18| 31| 20| 19| 12| 17| 24| 22| 45| 49| 34| 76| 57| 52| 58| 30| 49| 12| 22| 25| 18| 59| 22| 53| 23| 19| 19| 74| 67| 69| 69| 73|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|

| 211522|https://sofifa.co...| A. Callens|Alexander Martín ...| 27|1992-05-04 00:00:00| 186| 76| Peru| New York City FC| 71| 74| 2600000| 5000| CB| Left| 1| 3| 2|Medium/Medium| Normal| Yes| 4000000| null| SUB| 6| null|2017-01-27 00:00:00| 2019| SUB| 22| 47| 33| 49| 51| 69| 76| null| null| null| null| null| null| Injury Prone| 23| 18| 71| 69| 40| 42| 28| 26| 69| 56| 56| 39| 71| 70| 54| 73| 74| 72| 77| 23| 77| 71| 25| 35| 43| 63| 65| 70| 76| 13| 9| 9| 10| 15|48+2|48+2|48+2|43+2|45+2|45+2|45+2|43+2|47+2|47+2|47+2|47+2|55+2|55+2|55+2|47+2|60+2|67+2|67+2|67+2|60+2|62+2|70+2|70+2|70+2|62+2|

| 236259|https://sofifa.co...| S. Peña| Sergio Peña| 23|1995-09-28 00:00:00| 177| 69| Peru| FC Emmen| 70| 76| 2400000| 4000| CAM, CM| Right| 1| 3| 3| Medium/High| Lean| No| 4000000| null| SUB| 19| null|2019-08-03 00:00:00| 2022| null| null| 65| 66| 70| 70| 55| 60| null| null| null| null| null| null|Long Throw-in, Ar...| 67| 60| 57| 71| 66| 70| 70| 71| 69| 72| 67| 64| 67| 67| 75| 75| 44| 69| 63| 71| 45| 60| 64| 74| 69| 68| 55| 53| 48| 5| 12| 13| 10| 6|65+2|65+2|65+2|67+2|68+2|68+2|68+2|67+2|69+2|69+2|69+2|68+2|68+2|68+2|68+2|68+2|63+2|62+2|62+2|62+2|63+2|61+2|56+2|56+2|56+2|61+2|

| 226002|https://sofifa.co...| M. Araujo| Miguel Araujo| 24|1994-10-24 00:00:00| 178| 71| Peru| Peru| 70| 75| 0| 0| CB| Right| 1| 3| 2|Medium/Medium| Normal| No| null| null| null| null| null| null| null| RCB| 5| 66| 36| 47| 54| 71| 66| null| null| null| null| null| null| null| 41| 30| 73| 61| 37| 46| 23| 41| 59| 62| 65| 66| 60| 54| 68| 52| 70| 66| 61| 32| 76| 66| 22| 27| 51| 65| 70| 75| 72| 13| 15| 9| 16| 8|48+2|48+2|48+2|47+2|46+2|46+2|46+2|47+2|47+2|47+2|47+2|49+2|51+2|51+2|51+2|49+2|62+2|63+2|63+2|63+2|62+2|64+2|68+2|68+2|68+2|64+2|

| 212509|https://sofifa.co...| C. Ascues| Carlos Ascues| 27|1992-06-19 00:00:00| 187| 78| Peru| Orlando City SC| 70| 73| 1900000| 5000| CB, CDM| Right| 1| 2| 2|Medium/Medium| Normal| No| 3000000| null| SUB| 26| null|2019-01-01 00:00:00| 2024| null| null| 64| 57| 56| 63| 67| 74| null| null| null| null| null| null| null| 29| 60| 71| 69| 25| 63| 40| 29| 67| 67| 61| 66| 55| 69| 58| 65| 75| 67| 77| 55| 74| 71| 63| 61| 31| 66| 65| 67| 65| 12| 9| 10| 14| 8|64+2|64+2|64+2|60+2|64+2|64+2|64+2|60+2|64+2|64+2|64+2|61+2|65+2|65+2|65+2|61+2|62+2|68+2|68+2|68+2|62+2|63+2|69+2|69+2|69+2|63+2|

| 214000|https://sofifa.co...| Y. Reyna|José Yordy Reyna ...| 25|1993-09-17 00:00:00| 169| 68| Peru|Vancouver Whiteca...| 70| 72| 2200000| 5000| CF, RW| Right| 1| 4| 3| High/Medium| Normal| No| 3500000| null| LW| 29| null|2017-01-23 00:00:00| 2021| SUB| 9| 88| 66| 62| 75| 36| 64| null| null| null| null| null| null| Early Crosser| 52| 66| 64| 68| 64| 74| 68| 69| 55| 74| 87| 88| 87| 66| 79| 69| 68| 70| 59| 63| 69| 29| 65| 65| 62| 64| 39| 33| 19| 12| 14| 9| 8| 11|68+2|68+2|68+2|70+2|70+2|70+2|70+2|70+2|69+2|69+2|69+2|69+2|63+2|63+2|63+2|69+2|53+2|52+2|52+2|52+2|53+2|51+2|47+2|47+2|47+2|51+2|

| 210951|https://sofifa.co...| E. Flores| Edison Flores| 25|1994-05-14 00:00:00| 170| 68| Peru| Monarcas Morelia| 69| 71| 1300000| 5000| LM, RM, CM| Left| 1| 4| 4| Medium/High| Normal| No| 2300000| null| LM| 10| null|2018-08-25 00:00:00| 2023| LM| 20| 76| 63| 65| 74| 37| 57| null| null| null| null| null| null|Selfish, Crowd Fa...| 69| 64| 34| 65| 64| 74| 65| 59| 61| 72| 74| 77| 88| 52| 83| 58| 86| 72| 58| 65| 28| 34| 70| 63| 62| 64| 38| 42| 25| 12| 10| 12| 13| 13|62+2|62+2|62+2|69+2|66+2|66+2|66+2|69+2|67+2|67+2|67+2|68+2|62+2|62+2|62+2|68+2|55+2|51+2|51+2|51+2|55+2|51+2|43+2|43+2|43+2|51+2|

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only showing top 20 rows

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fifa\_df.filter((fifa\_df.player\_positions**==**"GK")**&**

(fifa\_df.nationality**==**"Peru")).show()

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| 225701|https://sofifa.co...|P. Gallese| Pedro Gallese| 29|1990-02-23 00:00:00| 189| 78| Peru|Peru| 72| 72| 0| 0| GK| Right| 1| 3| 1|Medium/Medium| Normal| No| null| null| null| null| null| null| null| GK| 1|null| null| null| null| null| null| 74| 67| 69| 73| 47| 69| null| 21| 20| 18| 31| 20| 19| 12| 17| 24| 22| 45| 49| 34| 76| 57| 52| 58| 30| 49| 12| 22| 25| 18| 59| 22| 53| 23| 19| 19| 74| 67| 69| 69| 73|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|

| 234054|https://sofifa.co...| C. Cáceda| Carlos Cáceda| 27|1991-09-27 00:00:00| 183| 75| Peru|Peru| 69| 69| 0| 0| GK| Right| 1| 2| 1|Medium/Medium| Normal| No| null| null| null| null| null| null| null| SUB| 12|null| null| null| null| null| null| 69| 69| 65| 72| 29| 71| null| 10| 8| 12| 23| 8| 11| 11| 12| 21| 17| 33| 26| 31| 54| 48| 49| 67| 32| 56| 9| 29| 6| 5| 25| 18| 49| 17| 12| 11| 69| 69| 65| 71| 72|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|

| 250841|https://sofifa.co...|P. Álvarez|Patricio Álvarez| 25|1994-01-24 00:00:00| 180| 78| Peru|Peru| 67| 70| 0| 0| GK| Right| 1| 3| 1|Medium/Medium| Normal| No| null| null| null| null| null| null| null| SUB| 21|null| null| null| null| null| null| 70| 69| 61| 71| 19| 68| null| 11| 7| 13| 20| 9| 10| 14| 11| 16| 11| 19| 19| 26| 44| 47| 46| 72| 19| 47| 7| 22| 7| 4| 66| 11| 21| 6| 12| 11| 70| 69| 61| 68| 71|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|

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fifa\_df.sort(["height\_cm","weight\_kg"], ascending**=**[**True**,**True**])

.show()

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|sofifa\_id| player\_url| short\_name| long\_name|age| dob|height\_cm|weight\_kg| nationality| club|overall|potential|value\_eur|wage\_eur|player\_positions|preferred\_foot|international\_reputation|weak\_foot|skill\_moves| work\_rate|body\_type|real\_face|release\_clause\_eur|player\_tags|team\_position|team\_jersey\_number|loaned\_from| joined|contract\_valid\_until|nation\_position|nation\_jersey\_number|pace|shooting|passing|dribbling|defending|physic|gk\_diving|gk\_handling|gk\_kicking|gk\_reflexes|gk\_speed|gk\_positioning| player\_traits|attacking\_crossing|attacking\_finishing|attacking\_heading\_accuracy|attacking\_short\_passing|attacking\_volleys|skill\_dribbling|skill\_curve|skill\_fk\_accuracy|skill\_long\_passing|skill\_ball\_control|movement\_acceleration|movement\_sprint\_speed|movement\_agility|movement\_reactions|movement\_balance|power\_shot\_power|power\_jumping|power\_stamina|power\_strength|power\_long\_shots|mentality\_aggression|mentality\_interceptions|mentality\_positioning|mentality\_vision|mentality\_penalties|mentality\_composure|defending\_marking|defending\_standing\_tackle|defending\_sliding\_tackle|goalkeeping\_diving|goalkeeping\_handling|goalkeeping\_kicking|goalkeeping\_positioning|goalkeeping\_reflexes| ls| st| rs| lw| lf| cf| rf| rw| lam| cam| ram| lm| lcm| cm| rcm| rm| lwb| ldm| cdm| rdm| rwb| lb| lcb| cb| rcb| rb|

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| 237994|https://sofifa.co...| N. Barrios|Cristian Nahuel B...| 21|1998-05-07 00:00:00| 156| 58| Argentina|San Lorenzo de Al...| 70| 80| 2900000| 8000| LM, CAM, LW| Right| 1| 3| 3| High/Low| Normal| No| 4900000| null| RW| 28| null|2017-01-01 00:00:00| 2022| null| null| 76| 63| 67| 72| 40| 38| null| null| null| null| null| null|Finesse Shot, Cro...| 63| 63| 47| 73| 51| 73| 63| 45| 65| 70| 84| 70| 70| 65| 94| 65| 63| 51| 28| 64| 42| 26| 66| 67| 57| 65| 44| 40| 51| 13| 8| 7| 12| 6|63+2|63+2|63+2|69+2|68+2|68+2|68+2|69+2|69+2|69+2|69+2|68+2|63+2|63+2|63+2|68+2|56+2|52+2|52+2|52+2|56+2|54+2|44+2|44+2|44+2|54+2|

| 202184|https://sofifa.co...| J. Plata|João Jimmy Plata ...| 27|1992-03-01 00:00:00| 157| 71| Ecuador| Real Salt Lake| 72| 72| 3300000| 7000| LW, LM| Right| 1| 2| 3| High/Medium| Normal| No| 4900000| #Acrobat| SUB| 10| null|2013-01-01 00:00:00| 2023| null| null| 85| 67| 69| 74| 34| 60| null| null| null| null| null| null|Argues with Offic...| 65| 65| 62| 69| 64| 71| 70| 69| 64| 70| 89| 81| 94| 74| 93| 74| 63| 70| 58| 64| 52| 29| 69| 74| 69| 70| 34| 29| 27| 11| 15| 9| 13| 13|69+2|69+2|69+2|72+2|71+2|71+2|71+2|72+2|71+2|71+2|71+2|71+2|65+2|65+2|65+2|71+2|55+2|52+2|52+2|52+2|55+2|52+2|45+2|45+2|45+2|52+2|

| 183895|https://sofifa.co...| M. Moralez|Maximiliano Nicol...| 32|1987-02-27 00:00:00| 158| 56| Argentina| New York City FC| 76| 76| 6000000| 9000| CAM, CM| Right| 2| 4| 4| High/High| Normal| Yes| 9000000| null| LCM| 10| null|2017-02-15 00:00:00| 2022| null| null| 73| 71| 74| 77| 52| 50| null| null| null| null| null| null|Power Free-Kick, ...| 74| 72| 56| 74| 70| 77| 76| 70| 73| 76| 82| 65| 81| 74| 77| 69| 31| 76| 33| 70| 65| 45| 74| 77| 74| 76| 48| 58| 51| 6| 5| 14| 14| 9|69+2|69+2|69+2|74+2|73+2|73+2|73+2|74+2|74+2|74+2|74+2|74+2|72+2|72+2|72+2|74+2|65+2|62+2|62+2|62+2|65+2|62+2|53+2|53+2|53+2|62+2|

| 234698|https://sofifa.co...| C. Songkrasin|Chanathip Songkrasin| 25|1993-10-05 00:00:00| 158| 56| Thailand|Hokkaido Consadol...| 71| 75| 3100000| 4000| CF, LW, CAM| Right| 1| 3| 5| High/High| Normal| No| 4100000| #Acrobat| LF| 18| null|2019-01-18 00:00:00| 2020| null| null| 85| 65| 66| 77| 28| 52| null| null| null| null| null| null|Dives Into Tackle...| 66| 66| 47| 68| 60| 77| 61| 59| 62| 72| 88| 83| 91| 66| 83| 64| 35| 79| 47| 67| 36| 32| 69| 69| 60| 68| 31| 19| 18| 12| 11| 13| 10| 6|66+2|66+2|66+2|72+2|70+2|70+2|70+2|72+2|71+2|71+2|71+2|72+2|64+2|64+2|64+2|72+2|54+2|49+2|49+2|49+2|54+2|50+2|37+2|37+2|37+2|50+2|

| 247822|https://sofifa.co...| J. Nisbet| Josh Nisbet| 20|1999-06-15 00:00:00| 158| 58| Australia|Central Coast Mar...| 56| 66| 140000| 1000| CDM| Right| 1| 3| 2| High/High| Lean| No| 203000| null| SUB| 26| null|2019-01-01 00:00:00| 2020| null| null| 70| 41| 54| 57| 49| 54| null| null| null| null| null| null| null| 42| 42| 48| 59| 40| 52| 61| 49| 58| 50| 67| 72| 80| 64| 87| 42| 73| 81| 36| 39| 59| 52| 33| 55| 51| 47| 44| 50| 51| 7| 11| 14| 9| 13|47+2|47+2|47+2|52+2|50+2|50+2|50+2|52+2|53+2|53+2|53+2|54+2|54+2|54+2|54+2|54+2|56+2|54+2|54+2|54+2|56+2|55+2|50+2|50+2|50+2|55+2|

| 235714|https://sofifa.co...| M. Domínguez|Josué Misael Domí...| 19|1999-10-27 00:00:00| 159| 58| Mexico| Cruz Azul| 68| 76| 1300000| 6000| LM| Left| 1| 3| 3| High/Medium| Lean| No| 2400000| null| SUB| 14| null|2019-01-01 00:00:00| 2022| null| null| 76| 58| 65| 70| 38| 55| null| null| null| null| null| null|Selfish, Crowd Fa...| 68| 55| 48| 68| 54| 71| 63| 41| 65| 67| 75| 77| 78| 64| 74| 66| 70| 63| 56| 56| 40| 23| 63| 63| 61| 55| 40| 41| 45| 13| 13| 8| 11| 11|62+2|62+2|62+2|66+2|65+2|65+2|65+2|66+2|66+2|66+2|66+2|67+2|61+2|61+2|61+2|67+2|55+2|51+2|51+2|51+2|55+2|53+2|46+2|46+2|46+2|53+2|

| 241046|https://sofifa.co...| J. Romero| Jonás Romero| 18|2000-08-21 00:00:00| 159| 59| Argentina| Atlético Tucumán| 58| 78| 260000| 1000| ST| Right| 1| 3| 2|Medium/Medium| Lean| No| 650000| null| RES| 30| null|2017-07-14 00:00:00| 2022| null| null| 76| 57| 50| 58| 29| 38| null| null| null| null| null| null| null| 48| 60| 54| 56| 45| 52| 43| 42| 39| 55| 74| 77| 77| 64| 89| 54| 69| 48| 30| 55| 36| 24| 58| 51| 61| 59| 29| 26| 25| 8| 8| 5| 8| 10|57+2|57+2|57+2|58+2|58+2|58+2|58+2|58+2|56+2|56+2|56+2|56+2|49+2|49+2|49+2|56+2|45+2|39+2|39+2|39+2|45+2|43+2|36+2|36+2|36+2|43+2|

| 190629|https://sofifa.co...| D. Villalva|Daniel Alberto Vi...| 26|1992-07-06 00:00:00| 159| 62| Argentina|Tiburones Rojos d...| 71| 71| 2500000| 7000| RW, LM, RM| Right| 1| 4| 4|Medium/Medium| Normal| No| 4200000| null| LM| 17| null|2014-06-27 00:00:00| 2020| null| null| 78| 67| 67| 76| 32| 47| null| null| null| null| null| null|Argues with Offic...| 64| 65| 61| 70| 73| 75| 71| 63| 59| 74| 79| 78| 85| 68| 91| 72| 78| 72| 32| 66| 43| 49| 65| 69| 63| 77| 22| 23| 22| 7| 7| 8| 7| 16|67+2|67+2|67+2|71+2|70+2|70+2|70+2|71+2|70+2|70+2|70+2|70+2|65+2|65+2|65+2|70+2|55+2|51+2|51+2|51+2|55+2|52+2|41+2|41+2|41+2|52+2|

| 222970|https://sofifa.co...| E. Oztumer| Erhun Oztumer| 28|1991-05-29 00:00:00| 160| 60| England| Charlton Athletic| 69| 69| 1100000| 9000| CAM| Left| 1| 3| 4| High/Medium| Lean| No| 2000000| #Acrobat| SUB| 29| null|2019-08-16 00:00:00| 2021| null| null| 78| 66| 66| 71| 30| 53| null| null| null| null| null| null|Injury Free, Self...| 58| 65| 36| 68| 66| 66| 70| 67| 64| 68| 83| 73| 94| 62| 97| 68| 84| 77| 33| 70| 65| 22| 60| 72| 62| 76| 27| 35| 32| 11| 15| 11| 13| 15|61+2|61+2|61+2|67+2|66+2|66+2|66+2|67+2|68+2|68+2|68+2|67+2|63+2|63+2|63+2|67+2|53+2|50+2|50+2|50+2|53+2|49+2|40+2|40+2|40+2|49+2|

| 214327|https://sofifa.co...| V. Hernández|Vladimir Javier H...| 30|1989-04-23 00:00:00| 160| 61| Colombia| Atlético Nacional| 72| 72| 2900000| 5000| LM, CAM| Right| 1| 3| 4| High/Medium| Normal| No| 4100000| #Acrobat| LAM| 16| null|2018-01-24 00:00:00| 2021| null| null| 87| 67| 64| 74| 34| 46| null| null| null| null| null| null|Diver, Early Cros...| 64| 67| 40| 68| 60| 72| 49| 45| 63| 70| 89| 85| 91| 64| 94| 68| 91| 78| 29| 64| 36| 21| 69| 68| 71| 71| 59| 20| 21| 10| 15| 15| 13| 11|64+2|64+2|64+2|71+2|69+2|69+2|69+2|71+2|70+2|70+2|70+2|70+2|63+2|63+2|63+2|70+2|55+2|49+2|49+2|49+2|55+2|51+2|39+2|39+2|39+2|51+2|

| 237091|https://sofifa.co...|Kim Hyeon Wook| 김현욱 金贤旭| 24|1995-06-22 00:00:00| 160| 61|Korea Republic| Gangwon FC| 63| 70| 500000| 1000| CM, ST| Left| 1| 3| 3| High/High| Normal| No| 725000| null| SUB| 11| null|2019-01-08 00:00:00| 2020| null| null| 84| 56| 63| 70| 43| 61| null| null| null| null| null| null|Selfish, Finesse ...| 62| 55| 27| 65| 29| 68| 63| 63| 61| 68| 86| 82| 83| 65| 89| 64| 68| 70| 55| 57| 61| 43| 66| 62| 38| 57| 62| 32| 30| 12| 13| 14| 15| 9|60+2|60+2|60+2|67+2|65+2|65+2|65+2|67+2|66+2|66+2|66+2|67+2|61+2|61+2|61+2|67+2|58+2|55+2|55+2|55+2|58+2|54+2|48+2|48+2|48+2|54+2|

| 170719|https://sofifa.co...| D. Buonanotte|Diego Mario Buona...| 31|1988-04-19 00:00:00| 161| 57| Argentina|Universidad Católica| 75| 75| 6000000| 13000| CAM| Left| 2| 4| 4| Medium/Low| Lean| No| 8400000| #Acrobat| SUB| 18| null|2016-07-20 00:00:00| 2020| null| null| 84| 67| 72| 79| 30| 39| null| null| null| null| null| null|Selfish, Finesse ...| 72| 62| 36| 71| 61| 77| 78| 76| 70| 77| 82| 85| 90| 70| 94| 69| 61| 60| 29| 77| 30| 25| 69| 72| 71| 68| 35| 31| 18| 15| 16| 16| 9| 13|65+2|65+2|65+2|74+2|72+2|72+2|72+2|74+2|73+2|73+2|73+2|73+2|67+2|67+2|67+2|73+2|54+2|49+2|49+2|49+2|54+2|50+2|37+2|37+2|37+2|50+2|

| 232789|https://sofifa.co...| T. Nakagawa| 仲川 輝人| 26|1992-07-27 00:00:00| 161| 57| Japan| Yokohama F. Marinos| 68| 68| 950000| 3000| RM, CF| Right| 1| 3| 2| High/Medium| Lean| No| 1200000| #Acrobat| RM| 23| null|2015-01-01 00:00:00| 2022| null| null| 83| 65| 54| 73| 23| 63| null| null| null| null| null| null| Early Crosser| 61| 66| 45| 57| 55| 70| 41| 29| 51| 68| 85| 82| 93| 69| 93| 67| 86| 76| 60| 61| 48| 21| 67| 53| 64| 58| 34| 10| 11| 10| 11| 11| 13| 9|65+2|65+2|65+2|68+2|66+2|66+2|66+2|68+2|65+2|65+2|65+2|66+2|57+2|57+2|57+2|66+2|49+2|43+2|43+2|43+2|49+2|45+2|37+2|37+2|37+2|45+2|

| 241963|https://sofifa.co...| H. Al Ghamdi| Hamed Al Ghamdi| 20|1999-04-02 00:00:00| 161| 59| Saudi Arabia| Ettifaq FC| 60| 73| 400000| 3000| CM, CAM, CDM| Right| 1| 4| 2|Medium/Medium| Lean| No| 910000| null| SUB| 6| null|2017-12-22 00:00:00| 2023| null| null| 71| 57| 58| 67| 51| 40| null| null| null| null| null| null| null| 58| 57| 46| 64| 47| 63| 50| 40| 62| 66| 70| 71| 82| 52| 92| 61| 68| 56| 32| 62| 33| 47| 53| 53| 43| 47| 48| 57| 52| 14| 12| 7| 13| 6|56+2|56+2|56+2|61+2|60+2|60+2|60+2|61+2|61+2|61+2|61+2|60+2|59+2|59+2|59+2|60+2|57+2|54+2|54+2|54+2|57+2|56+2|49+2|49+2|49+2|56+2|

| 221634|https://sofifa.co...| L. Acosta|Luciano Federico ...| 25|1994-05-31 00:00:00| 161| 61| Argentina| DC United| 76| 80| 10000000| 9000| CAM, LM| Right| 1| 3| 5| High/Medium| Normal| Yes| 15800000| null| LM| 10| null|2016-11-16 00:00:00| 2019| null| null| 81| 67| 71| 80| 46| 61| null| null| null| null| null| null|Selfish, Finesse ...| 61| 67| 53| 77| 67| 80| 74| 62| 70| 77| 87| 76| 88| 74| 90| 71| 57| 75| 51| 67| 69| 44| 72| 73| 54| 73| 47| 47| 33| 13| 9| 6| 12| 10|70+2|70+2|70+2|74+2|74+2|74+2|74+2|74+2|75+2|75+2|75+2|74+2|71+2|71+2|71+2|74+2|61+2|61+2|61+2|61+2|61+2|58+2|52+2|52+2|52+2|58+2|

| 199940|https://sofifa.co...| J. Cuevas|Juan Ezequiel Cuevas| 31|1988-06-04 00:00:00| 161| 63| Argentina|CD Everton de Viñ...| 73| 73| 3500000| 5000| RW, LW, LM| Left| 1| 3| 3| High/Medium| Normal| No| 4700000| null| RW| 10| null|2017-06-27 00:00:00| 2020| null| null| 85| 64| 71| 76| 44| 63| null| null| null| null| null| null|Finesse Shot, Cro...| 72| 65| 59| 74| 59| 74| 67| 70| 62| 74| 88| 82| 84| 67| 91| 64| 78| 71| 57| 61| 63| 40| 71| 72| 71| 58| 34| 51| 48| 15| 13| 8| 13| 16|68+2|68+2|68+2|73+2|71+2|71+2|71+2|73+2|72+2|72+2|72+2|73+2|67+2|67+2|67+2|73+2|62+2|58+2|58+2|58+2|62+2|60+2|53+2|53+2|53+2|60+2|

| 246687|https://sofifa.co...| L. Paiva| Leandro Paiva| 25|1994-02-15 00:00:00| 162| 56| Uruguay| Argentinos Juniors| 66| 69| 800000| 4000| RM| Left| 1| 3| 3| High/Medium| Lean| No| 1300000| null| SUB| 19| null|2018-12-27 00:00:00| 2023| null| null| 67| 68| 64| 68| 31| 36| null| null| null| null| null| null| null| 65| 70| 52| 65| 61| 69| 51| 70| 63| 69| 69| 65| 68| 67| 59| 69| 43| 39| 32| 68| 39| 26| 61| 62| 67| 56| 27| 32| 27| 13| 6| 8| 5| 14|63+2|63+2|63+2|66+2|66+2|66+2|66+2|66+2|66+2|66+2|66+2|64+2|60+2|60+2|60+2|64+2|49+2|46+2|46+2|46+2|49+2|46+2|38+2|38+2|38+2|46+2|

| 210206|https://sofifa.co...| A. Majrashi| Abdulaziz Majrashi| 27|1991-07-21 00:00:00| 162| 58| Saudi Arabia| Al Fayha| 61| 61| 220000| 3000| RWB| Right| 1| 3| 2|Medium/Medium| Normal| No| 363000| null| SUB| 13| null|2016-09-22 00:00:00| 2023| null| null| 78| 30| 49| 60| 58| 60| null| null| null| null| null| null| null| 58| 24| 50| 55| 25| 55| 29| 34| 53| 57| 80| 76| 82| 55| 79| 44| 77| 60| 59| 24| 58| 57| 44| 37| 36| 48| 57| 60| 62| 8| 13| 12| 16| 12|47+2|47+2|47+2|52+2|49+2|49+2|49+2|52+2|50+2|50+2|50+2|54+2|50+2|50+2|50+2|54+2|59+2|56+2|56+2|56+2|59+2|60+2|58+2|58+2|58+2|60+2|

| 252165|https://sofifa.co...| S. Van Dessel| Stan Van Dessel| 17|2001-07-24 00:00:00| 162| 60| Belgium| Sint-Truidense VV| 57| 73| 190000| 1000| CDM, CM| Right| 1| 4| 2| High/Medium| Lean| No| 394000| null| SUB| 19| null|2019-07-01 00:00:00| 2021| null| null| 64| 40| 50| 61| 54| 48| null| null| null| null| null| null| null| 32| 32| 51| 64| 42| 58| 34| 34| 49| 60| 67| 61| 71| 53| 92| 53| 65| 74| 31| 39| 54| 54| 54| 52| 46| 53| 58| 50| 60| 14| 7| 5| 8| 8|49+2|49+2|49+2|53+2|53+2|53+2|53+2|53+2|55+2|55+2|55+2|54+2|55+2|55+2|55+2|54+2|56+2|55+2|55+2|55+2|56+2|56+2|53+2|53+2|53+2|56+2|

| 252180|https://sofifa.co...| J. Northcott| Jordan Northcott| 17|2002-02-09 00:00:00| 162| 60| Scotland| St. Johnstone FC| 53| 75| 130000| 1000| RW, LW| Right| 1| 3| 2|Medium/Medium| Lean| No| 358000| null| SUB| 50| null|2018-07-01 00:00:00| 2020| null| null| 71| 49| 44| 58| 25| 27| null| null| null| null| null| null| null| 52| 49| 38| 40| 41| 58| 45| 35| 39| 56| 69| 72| 62| 45| 70| 67| 25| 55| 20| 41| 10| 16| 48| 50| 25| 50| 25| 26| 26| 7| 12| 10| 7| 13|50+2|50+2|50+2|53+2|52+2|52+2|52+2|53+2|50+2|50+2|50+2|52+2|44+2|44+2|44+2|52+2|41+2|33+2|33+2|33+2|41+2|39+2|27+2|27+2|27+2|39+2|

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(fifa\_df.nationality**==**"Peru")).sort("height\_cm",

ascending**=False**).show()

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|sofifa\_id| player\_url|short\_name| long\_name|age| dob|height\_cm|weight\_kg|nationality|club|overall|potential|value\_eur|wage\_eur|player\_positions|preferred\_foot|international\_reputation|weak\_foot|skill\_moves| work\_rate|body\_type|real\_face|release\_clause\_eur|player\_tags|team\_position|team\_jersey\_number|loaned\_from|joined|contract\_valid\_until|nation\_position|nation\_jersey\_number|pace|shooting|passing|dribbling|defending|physic|gk\_diving|gk\_handling|gk\_kicking|gk\_reflexes|gk\_speed|gk\_positioning|player\_traits|attacking\_crossing|attacking\_finishing|attacking\_heading\_accuracy|attacking\_short\_passing|attacking\_volleys|skill\_dribbling|skill\_curve|skill\_fk\_accuracy|skill\_long\_passing|skill\_ball\_control|movement\_acceleration|movement\_sprint\_speed|movement\_agility|movement\_reactions|movement\_balance|power\_shot\_power|power\_jumping|power\_stamina|power\_strength|power\_long\_shots|mentality\_aggression|mentality\_interceptions|mentality\_positioning|mentality\_vision|mentality\_penalties|mentality\_composure|defending\_marking|defending\_standing\_tackle|defending\_sliding\_tackle|goalkeeping\_diving|goalkeeping\_handling|goalkeeping\_kicking|goalkeeping\_positioning|goalkeeping\_reflexes| ls| st| rs| lw| lf| cf| rf| rw| lam| cam| ram| lm| lcm| cm| rcm| rm| lwb| ldm| cdm| rdm| rwb| lb| lcb| cb| rcb| rb|

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| 225701|https://sofifa.co...|P. Gallese| Pedro Gallese| 29|1990-02-23 00:00:00| 189| 78| Peru|Peru| 72| 72| 0| 0| GK| Right| 1| 3| 1|Medium/Medium| Normal| No| null| null| null| null| null| null| null| GK| 1|null| null| null| null| null| null| 74| 67| 69| 73| 47| 69| null| 21| 20| 18| 31| 20| 19| 12| 17| 24| 22| 45| 49| 34| 76| 57| 52| 58| 30| 49| 12| 22| 25| 18| 59| 22| 53| 23| 19| 19| 74| 67| 69| 69| 73|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|

| 234054|https://sofifa.co...| C. Cáceda| Carlos Cáceda| 27|1991-09-27 00:00:00| 183| 75| Peru|Peru| 69| 69| 0| 0| GK| Right| 1| 2| 1|Medium/Medium| Normal| No| null| null| null| null| null| null| null| SUB| 12|null| null| null| null| null| null| 69| 69| 65| 72| 29| 71| null| 10| 8| 12| 23| 8| 11| 11| 12| 21| 17| 33| 26| 31| 54| 48| 49| 67| 32| 56| 9| 29| 6| 5| 25| 18| 49| 17| 12| 11| 69| 69| 65| 71| 72|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|

| 250841|https://sofifa.co...|P. Álvarez|Patricio Álvarez| 25|1994-01-24 00:00:00| 180| 78| Peru|Peru| 67| 70| 0| 0| GK| Right| 1| 3| 1|Medium/Medium| Normal| No| null| null| null| null| null| null| null| SUB| 21|null| null| null| null| null| null| 70| 69| 61| 71| 19| 68| null| 11| 7| 13| 20| 9| 10| 14| 11| 16| 11| 19| 19| 26| 44| 47| 46| 72| 19| 47| 7| 22| 7| 4| 66| 11| 21| 6| 12| 11| 70| 69| 61| 68| 71|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|

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[]

fifa\_df.groupBy(["age"]).count().show()

**out**

+---+-----+

|age|count|

+---+-----+

| 31| 807|

| 34| 301|

| 28| 1086|

| 27| 1324|

| 26| 1270|

| 22| 1446|

| 16| 12|

| 20| 1247|

| 40| 13|

| 19| 1011|

| 41| 4|

| 37| 81|

| 17| 229|

| 35| 310|

| 23| 1358|

| 39| 20|

| 38| 42|

| 25| 1319|

| 24| 1296|

| 29| 999|

+---+-----+

only showing top 20 rows

[]

fifa\_df.groupBy(["age"]).count().sort("count",ascending**=False**)

.show(10)

**out**

+---+-----+

|age|count|

+---+-----+

| 22| 1446|

| 21| 1375|

| 23| 1358|

| 27| 1324|

| 25| 1319|

| 24| 1296|

| 26| 1270|

| 20| 1247|

| 28| 1086|

| 19| 1011|

+---+-----+

only showing top 10 rows

[]

fifa\_df.groupBy(["nationality","team\_position"]).count()

.sort("count",ascending**=False**).show(10)

***out***

+-----------+-------------+-----+

|nationality|team\_position|count|

+-----------+-------------+-----+

| England| SUB| 691|

| Germany| SUB| 512|

| France| SUB| 425|

| Spain| SUB| 399|

| Argentina| SUB| 360|

| England| RES| 340|

| Brazil| SUB| 328|

| Italy| SUB| 306|

| Colombia| SUB| 255|

| Germany| RES| 234|

+-----------+-------------+-----+

only showing top 10 rows

[]

fifa\_df.filter((fifa\_df.team\_position**!=**"SUB")**&**

(fifa\_df.team\_position**!=**"RES")).groupBy(["nationality","team\_position"]).count().sort("count",ascending**=False**).show(10)

**out**

+-----------+-------------+-----+

|nationality|team\_position|count|

+-----------+-------------+-----+

| England| RCB| 60|

| England| LCB| 54|

| England| RB| 53|

| England| LB| 52|

| England| GK| 49|

| Germany| GK| 48|

| England| ST| 47|

| Brazil| RCB| 44|

| Germany| RCB| 44|

| Germany| RB| 43|

+-----------+-------------+-----+

only showing top 10 rows

**Uso de spark.sql**

[]

fifa\_df.createOrReplaceTempView("fifa\_table")

spark.sql("SELECT \* FROM fifa\_table").show(5)

**out**

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|sofifa\_id| player\_url| short\_name| long\_name|age| dob|height\_cm|weight\_kg|nationality| club|overall|potential|value\_eur|wage\_eur|player\_positions|preferred\_foot|international\_reputation|weak\_foot|skill\_moves| work\_rate| body\_type|real\_face|release\_clause\_eur| player\_tags|team\_position|team\_jersey\_number|loaned\_from| joined|contract\_valid\_until|nation\_position|nation\_jersey\_number|pace|shooting|passing|dribbling|defending|physic|gk\_diving|gk\_handling|gk\_kicking|gk\_reflexes|gk\_speed|gk\_positioning| player\_traits|attacking\_crossing|attacking\_finishing|attacking\_heading\_accuracy|attacking\_short\_passing|attacking\_volleys|skill\_dribbling|skill\_curve|skill\_fk\_accuracy|skill\_long\_passing|skill\_ball\_control|movement\_acceleration|movement\_sprint\_speed|movement\_agility|movement\_reactions|movement\_balance|power\_shot\_power|power\_jumping|power\_stamina|power\_strength|power\_long\_shots|mentality\_aggression|mentality\_interceptions|mentality\_positioning|mentality\_vision|mentality\_penalties|mentality\_composure|defending\_marking|defending\_standing\_tackle|defending\_sliding\_tackle|goalkeeping\_diving|goalkeeping\_handling|goalkeeping\_kicking|goalkeeping\_positioning|goalkeeping\_reflexes| ls| st| rs| lw| lf| cf| rf| rw| lam| cam| ram| lm| lcm| cm| rcm| rm| lwb| ldm| cdm| rdm| rwb| lb| lcb| cb| rcb| rb|

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| 158023|https://sofifa.co...| L. Messi|Lionel Andrés Mes...| 32|1987-06-24 00:00:00| 170| 72| Argentina| FC Barcelona| 94| 94| 95500000| 565000| RW, CF, ST| Left| 5| 4| 4| Medium/Low| Messi| Yes| 195800000|#Dribbler, #Dista...| RW| 10| null|2004-07-01 00:00:00| 2021| null| null| 87| 92| 92| 96| 39| 66| null| null| null| null| null| null|Beat Offside Trap...| 88| 95| 70| 92| 88| 97| 93| 94| 92| 96| 91| 84| 93| 95| 95| 86| 68| 75| 68| 94| 48| 40| 94| 94| 75| 96| 33| 37| 26| 6| 11| 15| 14| 8|89+2|89+2|89+2|93+2|93+2|93+2|93+2|93+2|93+2|93+2|93+2|92+2|87+2|87+2|87+2|92+2|68+2|66+2|66+2|66+2|68+2|63+2|52+2|52+2|52+2|63+2|

| 20801|https://sofifa.co...|Cristiano Ronaldo|Cristiano Ronaldo...| 34|1985-02-05 00:00:00| 187| 83| Portugal| Juventus| 93| 93| 58500000| 405000| ST, LW| Right| 5| 4| 5| High/Low|C. Ronaldo| Yes| 96500000|#Speedster, #Drib...| LW| 7| null|2018-07-10 00:00:00| 2022| LS| 7| 90| 93| 82| 89| 35| 78| null| null| null| null| null| null|Long Throw-in, Se...| 84| 94| 89| 83| 87| 89| 81| 76| 77| 92| 89| 91| 87| 96| 71| 95| 95| 85| 78| 93| 63| 29| 95| 82| 85| 95| 28| 32| 24| 7| 11| 15| 14| 11|91+3|91+3|91+3|89+3|90+3|90+3|90+3|89+3|88+3|88+3|88+3|88+3|81+3|81+3|81+3|88+3|65+3|61+3|61+3|61+3|65+3|61+3|53+3|53+3|53+3|61+3|

| 190871|https://sofifa.co...| Neymar Jr|Neymar da Silva S...| 27|1992-02-05 00:00:00| 175| 68| Brazil|Paris Saint-Germain| 92| 92|105500000| 290000| LW, CAM| Right| 5| 5| 5| High/Medium| Neymar| Yes| 195200000|#Speedster, #Drib...| CAM| 10| null|2017-08-03 00:00:00| 2022| LW| 10| 91| 85| 87| 95| 32| 58| null| null| null| null| null| null|Power Free-Kick, ...| 87| 87| 62| 87| 87| 96| 88| 87| 81| 95| 94| 89| 96| 92| 84| 80| 61| 81| 49| 84| 51| 36| 87| 90| 90| 94| 27| 26| 29| 9| 9| 15| 15| 11|84+3|84+3|84+3|90+3|89+3|89+3|89+3|90+3|90+3|90+3|90+3|89+3|82+3|82+3|82+3|89+3|66+3|61+3|61+3|61+3|66+3|61+3|46+3|46+3|46+3|61+3|

| 200389|https://sofifa.co...| J. Oblak| Jan Oblak| 26|1993-01-07 00:00:00| 188| 87| Slovenia| Atlético Madrid| 91| 93| 77500000| 125000| GK| Right| 3| 3| 1|Medium/Medium| Normal| Yes| 164700000| null| GK| 13| null|2014-07-16 00:00:00| 2023| GK| 1|null| null| null| null| null| null| 87| 92| 78| 89| 52| 90|Flair, Acrobatic ...| 13| 11| 15| 43| 13| 12| 13| 14| 40| 30| 43| 60| 67| 88| 49| 59| 78| 41| 78| 12| 34| 19| 11| 65| 11| 68| 27| 12| 18| 87| 92| 78| 90| 89|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|

| 183277|https://sofifa.co...| E. Hazard| Eden Hazard| 28|1991-01-07 00:00:00| 175| 74| Belgium| Real Madrid| 91| 91| 90000000| 470000| LW, CF| Right| 4| 4| 4| High/Medium| Normal| Yes| 184500000|#Speedster, #Drib...| LW| 7| null|2019-07-01 00:00:00| 2024| LF| 10| 91| 83| 86| 94| 35| 66| null| null| null| null| null| null|Beat Offside Trap...| 81| 84| 61| 89| 83| 95| 83| 79| 83| 94| 94| 88| 95| 90| 94| 82| 56| 84| 63| 80| 54| 41| 87| 89| 88| 91| 34| 27| 22| 11| 12| 6| 8| 8|83+3|83+3|83+3|89+3|88+3|88+3|88+3|89+3|89+3|89+3|89+3|89+3|83+3|83+3|83+3|89+3|66+3|63+3|63+3|63+3|66+3|61+3|49+3|49+3|49+3|61+3|

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only showing top 5 rows

[]

spark.sql("SELECT distinct(club) FROM fifa\_table").show(5)

**out**

+--------------------+

| club|

+--------------------+

| Côte d'Ivoire|

| Göztepe SK|

|CD Everton de Viñ...|

| Shonan Bellmare|

| Salford City|

+--------------------+

only showing top 5 rows

[]

fifa\_df.filter((fifa\_df.nationality=="Peru")).sort(["height\_cm","weight\_kg"], ascending=[True,True]).show(30)

**out**

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|sofifa\_id| player\_url| short\_name| long\_name|age| dob|height\_cm|weight\_kg|nationality| club|overall|potential|value\_eur|wage\_eur|player\_positions|preferred\_foot|international\_reputation|weak\_foot|skill\_moves| work\_rate|body\_type|real\_face|release\_clause\_eur|player\_tags|team\_position|team\_jersey\_number|loaned\_from| joined|contract\_valid\_until|nation\_position|nation\_jersey\_number|pace|shooting|passing|dribbling|defending|physic|gk\_diving|gk\_handling|gk\_kicking|gk\_reflexes|gk\_speed|gk\_positioning| player\_traits|attacking\_crossing|attacking\_finishing|attacking\_heading\_accuracy|attacking\_short\_passing|attacking\_volleys|skill\_dribbling|skill\_curve|skill\_fk\_accuracy|skill\_long\_passing|skill\_ball\_control|movement\_acceleration|movement\_sprint\_speed|movement\_agility|movement\_reactions|movement\_balance|power\_shot\_power|power\_jumping|power\_stamina|power\_strength|power\_long\_shots|mentality\_aggression|mentality\_interceptions|mentality\_positioning|mentality\_vision|mentality\_penalties|mentality\_composure|defending\_marking|defending\_standing\_tackle|defending\_sliding\_tackle|goalkeeping\_diving|goalkeeping\_handling|goalkeeping\_kicking|goalkeeping\_positioning|goalkeeping\_reflexes| ls| st| rs| lw| lf| cf| rf| rw| lam| cam| ram| lm| lcm| cm| rcm| rm| lwb| ldm| cdm| rdm| rwb| lb| lcb| cb| rcb| rb|

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| 204538|https://sofifa.co...| R. Ruidíaz|Raúl Mario Ruidía...| 28|1990-07-25 00:00:00| 169| 66| Peru| Seattle Sounders FC| 76| 76| 8000000| 10000| ST| Right| 1| 4| 4| High/Medium| Lean| Yes| 12000000| null| ST| 9| null|2018-07-01 00:00:00| 2021| ST| 11| 80| 77| 64| 76| 32| 61| null| null| null| null| null| null|Long Throw-in, Ar...| 67| 80| 74| 66| 71| 76| 66| 69| 53| 74| 76| 83| 81| 70| 79| 76| 75| 75| 52| 73| 62| 28| 80| 65| 70| 75| 34| 22| 23| 12| 9| 9| 11| 12|74+2|74+2|74+2|74+2|74+2|74+2|74+2|74+2|72+2|72+2|72+2|72+2|64+2|64+2|64+2|72+2|54+2|49+2|49+2|49+2|54+2|51+2|45+2|45+2|45+2|51+2|

| 214000|https://sofifa.co...| Y. Reyna|José Yordy Reyna ...| 25|1993-09-17 00:00:00| 169| 68| Peru|Vancouver Whiteca...| 70| 72| 2200000| 5000| CF, RW| Right| 1| 4| 3| High/Medium| Normal| No| 3500000| null| LW| 29| null|2017-01-23 00:00:00| 2021| SUB| 9| 88| 66| 62| 75| 36| 64| null| null| null| null| null| null| Early Crosser| 52| 66| 64| 68| 64| 74| 68| 69| 55| 74| 87| 88| 87| 66| 79| 69| 68| 70| 59| 63| 69| 29| 65| 65| 62| 64| 39| 33| 19| 12| 14| 9| 8| 11|68+2|68+2|68+2|70+2|70+2|70+2|70+2|70+2|69+2|69+2|69+2|69+2|63+2|63+2|63+2|69+2|53+2|52+2|52+2|52+2|53+2|51+2|47+2|47+2|47+2|51+2|

| 210951|https://sofifa.co...| E. Flores| Edison Flores| 25|1994-05-14 00:00:00| 170| 68| Peru| Monarcas Morelia| 69| 71| 1300000| 5000| LM, RM, CM| Left| 1| 4| 4| Medium/High| Normal| No| 2300000| null| LM| 10| null|2018-08-25 00:00:00| 2023| LM| 20| 76| 63| 65| 74| 37| 57| null| null| null| null| null| null|Selfish, Crowd Fa...| 69| 64| 34| 65| 64| 74| 65| 59| 61| 72| 74| 77| 88| 52| 83| 58| 86| 72| 58| 65| 28| 34| 70| 63| 62| 64| 38| 42| 25| 12| 10| 12| 13| 13|62+2|62+2|62+2|69+2|66+2|66+2|66+2|69+2|67+2|67+2|67+2|68+2|62+2|62+2|62+2|68+2|55+2|51+2|51+2|51+2|55+2|51+2|43+2|43+2|43+2|51+2|

| 250839|https://sofifa.co...| J. Pretell| Jesús Pretell| 20|1999-03-26 00:00:00| 171| 71| Peru| Peru| 67| 77| 0| 0| CDM, CM| Right| 1| 3| 2|Medium/Medium| Lean| No| null| null| null| null| null| null| null| SUB| 16| 68| 50| 65| 63| 63| 65| null| null| null| null| null| null| null| 57| 37| 65| 73| 48| 59| 60| 62| 70| 66| 67| 69| 69| 60| 79| 66| 63| 81| 57| 59| 66| 59| 54| 56| 60| 68| 65| 63| 66| 6| 15| 7| 8| 13|57+2|57+2|57+2|59+2|59+2|59+2|59+2|59+2|61+2|61+2|61+2|62+2|64+2|64+2|64+2|62+2|65+2|65+2|65+2|65+2|65+2|65+2|63+2|63+2|63+2|65+2|

| 210112|https://sofifa.co...| C. Benavente| Cristian Benavente| 25|1994-05-19 00:00:00| 172| 68| Peru| FC Nantes| 72| 76| 4000000| 17000| CAM, LM, CF| Left| 1| 5| 4| Medium/Low| Normal| No| 8300000| null| SUB| 10| null|2019-01-22 00:00:00| 2022| SUB| 8| 73| 69| 68| 74| 34| 45| null| null| null| null| null| null|Selfish, Crowd Fa...| 65| 69| 46| 71| 66| 75| 71| 65| 66| 70| 77| 69| 77| 68| 82| 68| 70| 53| 42| 71| 37| 30| 71| 68| 58| 72| 23| 43| 37| 9| 6| 15| 12| 7|66+2|66+2|66+2|70+2|70+2|70+2|70+2|70+2|70+2|70+2|70+2|69+2|65+2|65+2|65+2|69+2|54+2|51+2|51+2|51+2|54+2|51+2|42+2|42+2|42+2|51+2|

| 226005|https://sofifa.co...| I. Santillán| Iván Santillán| 28|1991-05-06 00:00:00| 172| 72| Peru|Tiburones Rojos d...| 66| 66| 550000| 3000| LB, LM| Left| 1| 2| 3|Medium/Medium| Lean| No| 908000| null| SUB| 15| null|2011-11-07 00:00:00| 2024| null| null| 72| 59| 63| 67| 62| 65| null| null| null| null| null| null| null| 67| 55| 43| 67| 55| 66| 52| 60| 65| 66| 73| 72| 76| 57| 66| 63| 58| 70| 65| 64| 61| 64| 56| 56| 63| 59| 61| 65| 66| 14| 14| 12| 12| 7|59+2|59+2|59+2|64+2|61+2|61+2|61+2|64+2|63+2|63+2|63+2|64+2|63+2|63+2|63+2|64+2|65+2|64+2|64+2|64+2|65+2|64+2|61+2|61+2|61+2|64+2|

| 204542|https://sofifa.co...| Y. Yotún|Víctor Yoshimar Y...| 29|1990-04-07 00:00:00| 173| 68| Peru| Cruz Azul| 74| 74| 5500000| 23000| CM, LM, LB| Left| 1| 1| 3| Medium/High| Stocky| Yes| 9400000| null| LDM| 19| null|2019-01-01 00:00:00| 2019| LDM| 19| 65| 63| 76| 74| 64| 71| null| null| null| null| null| null|Inflexible, Argue...| 77| 58| 53| 77| 61| 72| 69| 69| 75| 73| 67| 63| 83| 70| 77| 75| 77| 85| 60| 64| 79| 62| 69| 79| 51| 74| 69| 63| 66| 7| 8| 16| 11| 7|65+2|65+2|65+2|70+2|69+2|69+2|69+2|70+2|72+2|72+2|72+2|72+2|73+2|73+2|73+2|72+2|70+2|70+2|70+2|70+2|70+2|68+2|65+2|65+2|65+2|68+2|

| 223637|https://sofifa.co...| A. Polo| Andy Polo| 24|1994-09-29 00:00:00| 173| 70| Peru| Portland Timbers| 67| 71| 1000000| 3000| RM, CM, LM| Right| 1| 3| 3|Medium/Medium| Lean| No| 1600000| null| RM| 11| null|2019-02-13 00:00:00| 2019| SUB| 14| 89| 58| 59| 67| 56| 53| null| null| null| null| null| null|Power Free-Kick, ...| 60| 59| 57| 61| 54| 65| 54| 45| 61| 64| 88| 89| 81| 68| 79| 59| 44| 73| 47| 58| 46| 59| 62| 60| 44| 57| 52| 58| 56| 10| 7| 12| 12| 14|62+2|62+2|62+2|66+2|64+2|64+2|64+2|66+2|64+2|64+2|64+2|66+2|62+2|62+2|62+2|66+2|64+2|59+2|59+2|59+2|64+2|63+2|56+2|56+2|56+2|63+2|

| 196688|https://sofifa.co...| A. Corzo| Aldo Corzo| 30|1989-05-20 00:00:00| 173| 75| Peru| Peru| 69| 69| 0| 0| RB, RWB| Right| 1| 3| 3|Medium/Medium| Normal| No| null| null| null| null| null| null| null| LB| 3| 70| 36| 57| 65| 69| 57| null| null| null| null| null| null|Avoids Using Weak...| 69| 18| 68| 59| 31| 63| 46| 50| 53| 65| 72| 68| 72| 63| 73| 59| 43| 67| 55| 49| 53| 66| 59| 48| 43| 50| 68| 73| 70| 15| 12| 8| 13| 6|53+2|53+2|53+2|58+2|56+2|56+2|56+2|58+2|56+2|56+2|56+2|59+2|58+2|58+2|58+2|59+2|66+2|62+2|62+2|62+2|66+2|67+2|64+2|64+2|64+2|67+2|

| 225706|https://sofifa.co...| M. Trauco| Miguel Trauco| 26|1992-08-25 00:00:00| 175| 62| Peru| AS Saint-Étienne| 74| 75| 5500000| 24000| LB, LM| Left| 1| 3| 3|Medium/Medium| Stocky| No| 10900000| null| LB| 13| null|2019-08-06 00:00:00| 2023| SUB| 6| 68| 49| 73| 75| 71| 79| null| null| null| null| null| null| null| 74| 33| 48| 76| 35| 76| 74| 64| 73| 75| 69| 67| 70| 71| 71| 69| 66| 80| 79| 64| 79| 72| 68| 69| 47| 67| 73| 76| 74| 12| 10| 12| 10| 8|61+2|61+2|61+2|68+2|66+2|66+2|66+2|68+2|69+2|69+2|69+2|70+2|72+2|72+2|72+2|70+2|73+2|74+2|74+2|74+2|73+2|72+2|71+2|71+2|71+2|72+2|

| 246014|https://sofifa.co...| M. López| Marcos López| 19|1999-11-20 00:00:00| 175| 67| Peru|San Jose Earthquakes| 62| 74| 475000| 1000| LB| Left| 1| 3| 2| High/Low| Lean| No| 808000| null| SUB| 27| null|2019-02-13 00:00:00| 2022| null| null| 72| 43| 58| 62| 59| 59| null| null| null| null| null| null| null| 62| 39| 60| 64| 49| 63| 58| 48| 59| 55| 70| 74| 69| 61| 75| 56| 61| 69| 50| 33| 68| 58| 53| 46| 51| 54| 57| 61| 56| 6| 12| 8| 6| 5|54+2|54+2|54+2|57+2|55+2|55+2|55+2|57+2|55+2|55+2|55+2|59+2|56+2|56+2|56+2|59+2|61+2|59+2|59+2|59+2|61+2|61+2|59+2|59+2|59+2|61+2|

| 236264|https://sofifa.co...| P. Aquino| Pedro Aquino| 24|1995-04-13 00:00:00| 175| 71| Peru| Club León| 73| 78| 4900000| 18000| CDM, CM| Right| 1| 3| 2| Medium/High| Lean| No| 8600000| null| SUB| 18| null|2018-07-01 00:00:00| 2019| null| null| 77| 59| 67| 67| 70| 73| null| null| null| null| null| null| null| 53| 62| 58| 75| 22| 60| 49| 58| 74| 74| 77| 77| 78| 68| 76| 65| 57| 81| 68| 52| 79| 72| 59| 66| 64| 68| 74| 68| 67| 13| 7| 5| 8| 15|64+2|64+2|64+2|66+2|66+2|66+2|66+2|66+2|67+2|67+2|67+2|67+2|69+2|69+2|69+2|67+2|70+2|72+2|72+2|72+2|70+2|70+2|69+2|69+2|69+2|70+2|

| 228271|https://sofifa.co...| C. Gonzáles| Christofer Gonzáles| 26|1992-10-12 00:00:00| 176| 69| Peru| Peru| 66| 67| 0| 0| CM, LM| Right| 1| 3| 3| Medium/Low| Normal| No| null| null| null| null| null| null| null| SUB| 23| 69| 64| 64| 67| 54| 52| null| null| null| null| null| null| Selfish| 60| 62| 51| 66| 58| 67| 52| 62| 64| 65| 68| 69| 70| 63| 69| 67| 46| 71| 58| 65| 17| 54| 65| 70| 65| 58| 56| 53| 52| 6| 9| 12| 7| 9|63+2|63+2|63+2|65+2|65+2|65+2|65+2|65+2|66+2|66+2|66+2|65+2|64+2|64+2|64+2|65+2|61+2|58+2|58+2|58+2|61+2|59+2|52+2|52+2|52+2|59+2|

| 211124|https://sofifa.co...| P. Hurtado|Christopher Paolo...| 28|1990-07-27 00:00:00| 176| 72| Peru| Atiker Konyaspor| 73| 73| 4000000| 16000| CAM| Right| 1| 4| 4| Medium/Low| Normal| No| 8100000| null| CAM| 16| null|2018-08-06 00:00:00| 2021| SUB| 7| 81| 71| 71| 75| 44| 59| null| null| null| null| null| null|Injury Free, Crow...| 70| 69| 72| 71| 70| 75| 68| 72| 70| 76| 78| 83| 75| 67| 73| 76| 80| 65| 60| 71| 42| 45| 68| 71| 69| 70| 48| 34| 28| 7| 12| 16| 11| 9|71+2|71+2|71+2|72+2|72+2|72+2|72+2|72+2|72+2|72+2|72+2|72+2|67+2|67+2|67+2|72+2|59+2|56+2|56+2|56+2|59+2|56+2|51+2|51+2|51+2|56+2|

| 236259|https://sofifa.co...| S. Peña| Sergio Peña| 23|1995-09-28 00:00:00| 177| 69| Peru| FC Emmen| 70| 76| 2400000| 4000| CAM, CM| Right| 1| 3| 3| Medium/High| Lean| No| 4000000| null| SUB| 19| null|2019-08-03 00:00:00| 2022| null| null| 65| 66| 70| 70| 55| 60| null| null| null| null| null| null|Long Throw-in, Ar...| 67| 60| 57| 71| 66| 70| 70| 71| 69| 72| 67| 64| 67| 67| 75| 75| 44| 69| 63| 71| 45| 60| 64| 74| 69| 68| 55| 53| 48| 5| 12| 13| 10| 6|65+2|65+2|65+2|67+2|68+2|68+2|68+2|67+2|69+2|69+2|69+2|68+2|68+2|68+2|68+2|68+2|63+2|62+2|62+2|62+2|63+2|61+2|56+2|56+2|56+2|61+2|

| 226002|https://sofifa.co...| M. Araujo| Miguel Araujo| 24|1994-10-24 00:00:00| 178| 71| Peru| Peru| 70| 75| 0| 0| CB| Right| 1| 3| 2|Medium/Medium| Normal| No| null| null| null| null| null| null| null| RCB| 5| 66| 36| 47| 54| 71| 66| null| null| null| null| null| null| null| 41| 30| 73| 61| 37| 46| 23| 41| 59| 62| 65| 66| 60| 54| 68| 52| 70| 66| 61| 32| 76| 66| 22| 27| 51| 65| 70| 75| 72| 13| 15| 9| 16| 8|48+2|48+2|48+2|47+2|46+2|46+2|46+2|47+2|47+2|47+2|47+2|49+2|51+2|51+2|51+2|49+2|62+2|63+2|63+2|63+2|62+2|64+2|68+2|68+2|68+2|64+2|

| 204539|https://sofifa.co...| L. Advíncula|Luis Jan Piers Ad...| 29|1990-03-02 00:00:00| 178| 80| Peru| Rayo Vallecano| 74| 74| 4600000| 8000| RB, RWB| Right| 1| 4| 3| High/Medium| Normal| Yes| 7400000| #Speedster| SUB| 17| null|2019-07-29 00:00:00| 2022| RB| 17| 94| 64| 70| 76| 66| 76| null| null| null| null| null| null| Early Crosser| 75| 58| 62| 73| 59| 76| 77| 63| 67| 74| 94| 94| 81| 69| 76| 76| 74| 85| 75| 68| 70| 63| 68| 60| 64| 60| 66| 70| 67| 11| 12| 13| 15| 11|70+2|70+2|70+2|73+2|71+2|71+2|71+2|73+2|71+2|71+2|71+2|74+2|69+2|69+2|69+2|74+2|73+2|69+2|69+2|69+2|73+2|73+2|68+2|68+2|68+2|73+2|

| 158133|https://sofifa.co...| J. Farfán|Jefferson Agustín...| 34|1984-10-26 00:00:00| 178| 84| Peru| Lokomotiv Moscow| 77| 77| 4500000| 1000| RM, ST| Right| 2| 3| 4| Medium/Low| Normal| Yes| 9400000| null| SUB| 8| null|2017-01-29 00:00:00| 2020| CAM| 10| 84| 73| 75| 75| 36| 75| null| null| null| null| null| null|Power Free-Kick, ...| 76| 73| 72| 73| 69| 74| 82| 75| 72| 79| 84| 84| 75| 77| 66| 75| 76| 72| 78| 72| 73| 39| 75| 78| 79| 80| 17| 43| 29| 15| 12| 5| 12| 15|75+2|75+2|75+2|76+2|76+2|76+2|76+2|76+2|75+2|75+2|75+2|76+2|71+2|71+2|71+2|76+2|59+2|58+2|58+2|58+2|59+2|57+2|52+2|52+2|52+2|57+2|

| 196434|https://sofifa.co...| J. Ballón| Josepmir Ballón| 31|1988-03-21 00:00:00| 179| 76| Peru|CD Universidad de...| 66| 66| 475000| 1000| CDM, CM| Left| 1| 3| 3| High/Medium| Normal| No| 641000| null| RCM| 5| null|2019-01-17 00:00:00| 2020| null| null| 68| 61| 63| 65| 62| 72| null| null| null| null| null| null| null| 60| 60| 57| 62| 27| 62| 61| 55| 64| 70| 65| 71| 69| 58| 66| 72| 60| 74| 70| 66| 75| 70| 54| 70| 52| 60| 62| 58| 61| 7| 12| 7| 12| 14|61+2|61+2|61+2|63+2|63+2|63+2|63+2|63+2|64+2|64+2|64+2|63+2|64+2|64+2|64+2|63+2|64+2|65+2|65+2|65+2|64+2|63+2|63+2|63+2|63+2|63+2|

| 243859|https://sofifa.co...| J. Martínez| Jeisson Martínez| 24|1994-12-28 00:00:00| 180| 72| Peru| CF Fuenlabrada| 64| 71| 650000| 2000| ST, LM| Right| 1| 3| 3| Medium/Low| Lean| No| 1100000| null| SUB| 9| null|2019-04-03 00:00:00| 2020| null| null| 77| 61| 59| 66| 23| 59| null| null| null| null| null| null| null| 60| 63| 61| 62| 62| 68| 67| 21| 62| 65| 79| 76| 69| 47| 72| 60| 68| 60| 62| 59| 46| 24| 63| 56| 57| 47| 18| 17| 19| 15| 8| 8| 13| 11|62+2|62+2|62+2|64+2|63+2|63+2|63+2|64+2|62+2|62+2|62+2|63+2|56+2|56+2|56+2|63+2|46+2|43+2|43+2|43+2|46+2|43+2|37+2|37+2|37+2|43+2|

| 250841|https://sofifa.co...| P. Álvarez| Patricio Álvarez| 25|1994-01-24 00:00:00| 180| 78| Peru| Peru| 67| 70| 0| 0| GK| Right| 1| 3| 1|Medium/Medium| Normal| No| null| null| null| null| null| null| null| SUB| 21|null| null| null| null| null| null| 70| 69| 61| 71| 19| 68| null| 11| 7| 13| 20| 9| 10| 14| 11| 16| 11| 19| 19| 26| 44| 47| 46| 72| 19| 47| 7| 22| 7| 4| 66| 11| 21| 6| 12| 11| 70| 69| 61| 68| 71|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|

| 242486|https://sofifa.co...| A. Succar|Alexander Nasim S...| 23|1995-08-12 00:00:00| 180| 80| Peru| CD Huachipato| 66| 72| 900000| 2000| ST| Right| 1| 3| 2| Medium/Low| Stocky| No| 1400000| null| SUB| 24| null|2019-01-01 00:00:00| 2019| null| null| 76| 66| 53| 62| 26| 66| null| null| null| null| null| null| null| 47| 69| 60| 56| 58| 65| 67| 54| 44| 61| 78| 74| 54| 63| 54| 61| 58| 59| 73| 64| 59| 28| 64| 55| 67| 61| 18| 22| 21| 13| 8| 15| 11| 13|64+2|64+2|64+2|62+2|63+2|63+2|63+2|62+2|61+2|61+2|61+2|61+2|54+2|54+2|54+2|61+2|45+2|43+2|43+2|43+2|45+2|43+2|41+2|41+2|41+2|43+2|

| 234178|https://sofifa.co...| L. Abram| Luis Abram| 23|1996-02-27 00:00:00| 181| 76| Peru| Vélez Sarsfield| 72| 81| 4400000| 9000| CB| Left| 1| 3| 2|Medium/Medium| Normal| No| 7400000| null| LCB| 29| null|2018-01-18 00:00:00| 2021| LCB| 2| 63| 41| 54| 55| 72| 74| null| null| null| null| null| null| null| 43| 39| 73| 69| 35| 53| 49| 33| 51| 57| 61| 65| 55| 60| 49| 51| 91| 75| 73| 37| 69| 76| 43| 45| 35| 57| 70| 73| 69| 10| 9| 13| 6| 12|53+2|53+2|53+2|52+2|52+2|52+2|52+2|52+2|53+2|53+2|53+2|54+2|57+2|57+2|57+2|54+2|64+2|66+2|66+2|66+2|64+2|66+2|71+2|71+2|71+2|66+2|

| 203299|https://sofifa.co...| A. Carrillo|André Martín Carr...| 28|1991-06-14 00:00:00| 181| 78| Peru| Al Hilal| 78| 78| 10500000| 43000| RM| Right| 2| 4| 4|Medium/Medium| Normal| Yes| 17900000| null| RM| 19| null|2019-07-23 00:00:00| 2023| RM| 18| 86| 74| 72| 83| 34| 67| null| null| null| null| null| null|Selfish, Early Cr...| 78| 73| 70| 73| 74| 85| 78| 55| 62| 82| 86| 86| 81| 74| 75| 76| 73| 67| 72| 75| 53| 34| 74| 73| 68| 73| 26| 32| 25| 11| 14| 13| 12| 7|76+2|76+2|76+2|78+2|77+2|77+2|77+2|78+2|76+2|76+2|76+2|77+2|69+2|69+2|69+2|77+2|59+2|54+2|54+2|54+2|59+2|55+2|48+2|48+2|48+2|55+2|

| 234054|https://sofifa.co...| C. Cáceda| Carlos Cáceda| 27|1991-09-27 00:00:00| 183| 75| Peru| Peru| 69| 69| 0| 0| GK| Right| 1| 2| 1|Medium/Medium| Normal| No| null| null| null| null| null| null| null| SUB| 12|null| null| null| null| null| null| 69| 69| 65| 72| 29| 71| null| 10| 8| 12| 23| 8| 11| 11| 12| 21| 17| 33| 26| 31| 54| 48| 49| 67| 32| 56| 9| 29| 6| 5| 25| 18| 49| 17| 12| 11| 69| 69| 65| 71| 72|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|null|

| 236260|https://sofifa.co...|A. Santamaría| Anderson Santamaría| 27|1992-01-10 00:00:00| 183| 80| Peru| Club Atlas| 69| 71| 1100000| 9000| CB| Right| 1| 3| 3| High/High| Normal| No| 2000000| null| SUB| 5| null|2019-01-01 00:00:00| 2019| SUB| 4| 65| 61| 64| 64| 70| 69| null| null| null| null| null| null| null| 61| 55| 68| 66| 58| 66| 59| 64| 66| 65| 62| 68| 60| 51| 63| 72| 50| 69| 71| 65| 68| 67| 62| 62| 62| 66| 71| 72| 70| 12| 11| 10| 7| 13|63+2|63+2|63+2|62+2|62+2|62+2|62+2|62+2|62+2|62+2|62+2|63+2|64+2|64+2|64+2|63+2|65+2|66+2|66+2|66+2|65+2|66+2|67+2|67+2|67+2|66+2|

| 25420|https://sofifa.co...| C. Pizarro|Claudio Miguel Pi...| 40|1978-10-03 00:00:00| 184| 84| Peru| SV Werder Bremen| 75| 75| 0| 20000| ST| Right| 3| 4| 4| Medium/Low| Normal| No| null| null| SUB| 14| null|2018-07-29 00:00:00| 2020| null| null| 34| 77| 73| 75| 37| 64| null| null| null| null| null| null|Power Free-Kick, ...| 62| 79| 77| 77| 73| 76| 76| 65| 74| 78| 35| 34| 65| 78| 54| 75| 64| 34| 77| 73| 69| 31| 81| 79| 81| 87| 35| 33| 24| 8| 7| 11| 11| 14|73+3|73+3|73+3|70+3|73+3|73+3|73+3|70+3|74+3|74+3|74+3|68+3|70+3|70+3|70+3|68+3|48+3|55+3|55+3|55+3|48+3|46+3|50+3|50+3|50+3|46+3|

| 248566|https://sofifa.co...| P. Vivanco| Piero Vivanco| 19|2000-01-17 00:00:00| 185| 75| Peru| CD Huachipato| 54| 67| 120000| 1000| CDM, CM| Right| 1| 3| 2|Medium/Medium| Lean| No| 237000| null| RES| 4| null|2019-01-01 00:00:00| 2023| null| null| 58| 38| 52| 51| 55| 41| null| null| null| null| null| null| null| 48| 36| 41| 62| 35| 46| 42| 40| 54| 57| 52| 63| 54| 50| 53| 41| 67| 40| 34| 38| 52| 50| 44| 43| 45| 52| 60| 60| 48| 9| 8| 13| 12| 13|45+2|45+2|45+2|49+2|48+2|48+2|48+2|49+2|50+2|50+2|50+2|50+2|51+2|51+2|51+2|50+2|52+2|53+2|53+2|53+2|52+2|52+2|52+2|52+2|52+2|52+2|

| 220673|https://sofifa.co...| R. Tapia| Renato Tapia| 23|1995-07-28 00:00:00| 185| 78| Peru| Feyenoord| 74| 79| 7000000| 10000| CDM, CM| Right| 1| 4| 3|Medium/Medium| Stocky| No| 11000000| null| LCM| 20| null|2016-01-27 00:00:00| 2020| RDM| 13| 70| 56| 67| 74| 72| 79| null| null| null| null| null| null| null| 60| 46| 70| 71| 63| 76| 65| 54| 75| 75| 74| 67| 69| 68| 67| 71| 80| 78| 78| 60| 82| 70| 62| 66| 61| 66| 71| 74| 75| 16| 14| 7| 15| 8|65+2|65+2|65+2|67+2|67+2|67+2|67+2|67+2|68+2|68+2|68+2|68+2|70+2|70+2|70+2|68+2|71+2|73+2|73+2|73+2|71+2|71+2|73+2|73+2|73+2|71+2|

| 187132|https://sofifa.co...| C. Zambrano|Carlos Augusto Za...| 29|1989-07-10 00:00:00| 185| 83| Peru| Peru| 74| 74| 0| 0| CB| Right| 2| 3| 2| Medium/High| Normal| No| null| null| null| null| null| null| null| SUB| 15| 58| 48| 57| 66| 74| 73| null| null| null| null| null| null| Injury Prone| 51| 41| 74| 68| 36| 66| 36| 33| 68| 67| 62| 54| 65| 65| 59| 63| 77| 60| 73| 54| 90| 69| 44| 45| 44| 73| 74| 75| 76| 14| 12| 13| 12| 14|57+2|57+2|57+2|57+2|57+2|57+2|57+2|57+2|58+2|58+2|58+2|58+2|61+2|61+2|61+2|58+2|65+2|69+2|69+2|69+2|65+2|66+2|73+2|73+2|73+2|66+2|

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only showing top 30 rows

**Visualizando datos de spark**

**[]**

**import** matplotlib.pyplot **as** plt

**import** seaborn **as** sns

**%**matplotlib inline

[]

p\_fifa\_df **=** fifa\_df.toPandas()

[]

fig,ax **=** plt.subplots(1,1,figsize**=**(6,4))

​

p\_fifa\_df.age.plot.hist(ax**=**ax,bins**=**10,color**=**"blue",edgecolor**=**"black",linewidth**=**1.3)

p\_fifa\_df.age.plot.density(ax**=**ax,secondary\_y**=True**,color**=**"red")

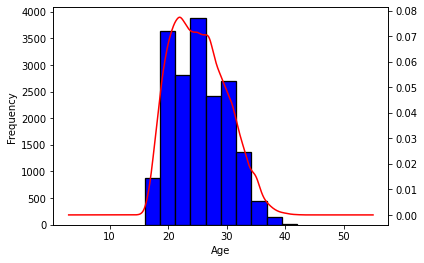
ax.set\_xlabel("Age")

ax.set\_ylabel("Frequency")

​

plt.savefig("test.png",dpi**=**400)

**out**



[]

fig,ax **=** plt.subplots(1,1,figsize**=**(6,4))

​

sns.histplot(p\_fifa\_df.age,

bins**=**10,

ax**=**ax,

color**=**"blue"

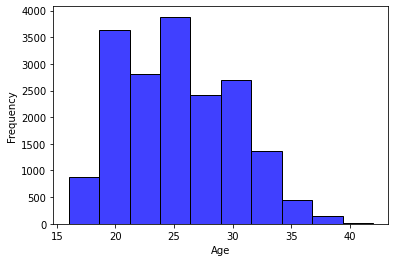
)

ax.set\_xlabel("Age")

ax.set\_ylabel("Frequency")

**out**

Text(0, 0.5, 'Frequency')



[]

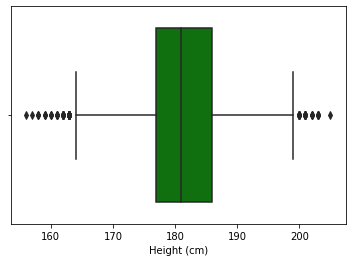
fig,ax **=** plt.subplots(1,1,figsize**=**(6,4))

sns.boxplot(x**=**p\_fifa\_df.height\_cm, color**=**"g")

ax.set\_xlabel("Height (cm)")

**out**

Text(0.5, 0, 'Height (cm)')



[]

sns.pairplot(p\_fifa\_df[["height\_cm","weight\_kg"]],

kind**=**"reg",

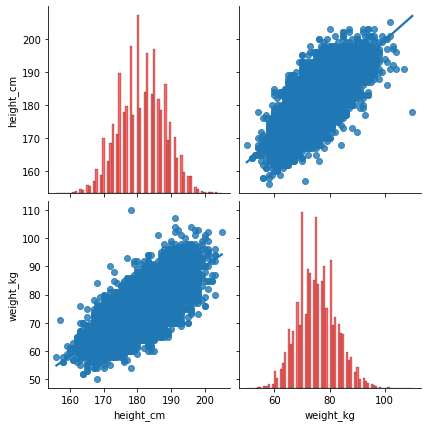
diag\_kind**=**"hist",

diag\_kws**=**{"color":"r","edgecolor":"k","alpha":0.6},

height**=**3)

**out**

<seaborn.axisgrid.PairGrid at 0x18e774a8850>



​