```
In [1]: from pyspark.sql import SparkSession
import findspark

In [2]: findspark.init()
findspark.find()

Out[2]: '/Users/youngjinseo/anaconda3/lib/python3.10/site-packages/pyspark'
```

#### 데이터셋 불러오기

```
In [3]: spark = SparkSession.builder.appName('practicel').config("spark.driver.bindAddress", "127.0.0.1").getOrCreate() spark

Setting default log level to "WARN".

To adjust logging level use sc.setLogLevel(newLevel). For SparkR, use setLogLevel(newLevel).

24/09/18 11:46:42 WARN NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
```

Out [3]: SparkSession - in-memory

SparkContext

Spark UI

Version v3.5.2

Master local[\*]

AppName practice1

In [4]: df = spark.read.csv('/Users/youngjinseo/Desktop/파이썬/tested.csv', header = True)

## 데이터셋 행 읽기

In [6]: df.show(13)

PassengerId	Survived	Pclass	Name		_		Parch	Ticket	Fare	Cabin	Embarked
   892	0	3	Kelly, Mr. James			'		'	7.8292	NULL	l Q
893	1	3	Wilkes, Mrs. Jame	female	47	1	0	363272	7	NULL	l S
894	0	2	Myles, Mr. Thomas	male	62	0	0	240276	9.6875	NULL	l Q
895	1 0	3	Wirz, Mr. Albert	male	27	0	0	315154	8.6625	NULL	l S
896	1	3	Hirvonen, Mrs. Al	female	22	1	1	3101298	12.2875	NULL	l S
897	0	3	Svensson, Mr. Joh	male	14	0	0	7538	9.225	NULL	l S
898	1	3	Connolly, Miss. Kate	female	30	0	0	330972	7.6292	NULL	l Q
899	1 0	2	Caldwell, Mr. Alb	male	26	1	1	248738	29	NULL	l S
900	1	3	Abrahim, Mrs. Jos	female	18	0	0	2657	7.2292	NULL	С
901	0	3	Davies, Mr. John	male	21	2	0	A/4 48871	24.15	NULL	l S
902	1 0	3	Ilieff, Mr. Ylio	male	NULL	0	0	349220	7.8958	NULL	l S
903	0	1	Jones, Mr. Charle	male	46	0	0	694	1 26	NULL	l S
904	1	1	Snyder, Mrs. John	female	23	1	0	21228	82.2667	В45	l S

only showing top 13 rows

# 데이터 선택하기

In [8]: select\_df = df.select('Name', 'Sex')
 select\_df.show()

Name| Sex| Kelly, Mr. James| male| |Wilkes, Mrs. Jame...|female| |Myles, Mr. Thomas...| male| | Wirz, Mr. Albert| male| |Hirvonen, Mrs. Al...|female| |Svensson, Mr. Joh...| male| |Connolly, Miss. Kate|female| |Caldwell, Mr. Alb...| male| |Abrahim, Mrs. Jos...|female| |Davies, Mr. John ...| male| | Ilieff, Mr. Ylio| male| |Jones, Mr. Charle...| male| |Snyder, Mrs. John...|female| |Howard, Mr. Benjamin| male| |Chaffee, Mrs. Her...|female| |del Carlo, Mrs. S...|female| | Keane, Mr. Daniel| male| | Assaf, Mr. Gerios| male| |Ilmakangas, Miss....|female| |"Assaf Khalil, Mr...|female| only showing top 20 rows

데이터 필터

In [9]: filter\_df = df.filter(df.Sex == 'male')
filter\_df.show(10)

+			+	+	+		+	+	+		+	
Passe	engerId Sur	vived Pc	lass	Name  Sex	Age	SibSp	Parch	ı	Ticket	Fare	Cabin	Embarked
+			+	+	+		+	+	+		+	
	892	0	3  Kelly,	<pre>Mr. James male </pre>	34.5	0	I C		330911	7.8292	NULL	Q
	894	0	2 Myles, Mr.	Thomas male	62	0	I C		240276	9.6875	NULL	Q
	895	0	3  Wirz, M	Mr. Albert male	27	0	I C		315154	8.6625	NULL	S
	897	0	3 Svensson, M	<pre>fr. Joh male </pre>	14	0	l C		7538	9.225	NULL	S
	899	0	2 Caldwell, M	Mr. Alb male	261	1	1	. [	248738	29	NULL	S
	901	0	3 Davies, Mr.	John male	21	2	1 0	A/	4 48871	24.15	NULL	S
	902	0	3  Ilieff,	Mr. Ylio male	NULL	0	1 0		349220	7.8958	NULL	S
	903	0	1 Jones, Mr.	Charle male	46	0	I C		694	26	NULL	S
	905	0	2 Howard, Mr.	Benjamin male	63	1	0		24065	26	NULL	S
	908	0		Mr. Daniel male			l C	İ	233734	12.35	NULL	Q
+			+	+	+		+	+	+		+	

only showing top 10 rows

## 데이터 열 삭제

PassengerI	•	•	Name				Parch		Embarked
89			Kelly, Mr. James				0	330911	
89	3   1	3	Wilkes, Mrs. Jame	female	47	1	0	363272	S
89	4   0	2	Myles, Mr. Thomas	male	62	0	0	240276	Ql
89	5   0	3	Wirz, Mr. Albert	male	27	0	0	315154	S
89	6  1	3	Hirvonen, Mrs. Al	female	22	1	1	3101298	S
89	7   0	3	Svensson, Mr. Joh	male	14	0	0	7538	S
89	8   1	3	Connolly, Miss. Kate	female	30	0	0	330972	Ql
89	9  0	2	Caldwell, Mr. Alb	male	26	1	1	248738	S
90	0  1	3	Abrahim, Mrs. Jos	female	18	0	0	2657	C
90	1   0	3	Davies, Mr. John	male	21	2	0	A/4 48871	SI
90	2   0	3	Ilieff, Mr. Ylio	male	NULL	0	0	349220	S
90	3   0	1	Jones, Mr. Charle	male	46	0	0	694	S
90	4   1	1	Snyder, Mrs. John	female	23	1	0	21228	S
90	5  0	2	Howard, Mr. Benjamin	male	63	1	0	24065	SI
90	6  1	1	Chaffee, Mrs. Her	female	47	1	0	W.E.P. 5734	SI
90	7   1	2	del Carlo, Mrs. S	female	24	1	0	SC/PARIS 2167	Cl
90	8   0	2	Keane, Mr. Daniel	male	35	0	0	233734	QI
90	9  0	3	Assaf, Mr. Gerios	male	21	0	0	2692	Cl
91	0  1	3	Ilmakangas, Miss	female	27	1	0 5	STON/02. 3101270	SI
91	1   1	3	"Assaf Khalil, Mr	female	45	0	0	2696	Cl
	_+	+	+	++	L	+	+-		

only showing top 20 rows

# 새로 데이터셋 저장