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Python Pandas Tutorial	PySparRamoa/spanatample/pyspark-
Pandas – What is DataFrame (https://sparkbyexamples.com/tpandas/pandas-dataframe-tutorial-beginners-guide/)	loc[] Syntax and  utorial/)Examples
Pandas – What is Series (https://sparkbyexamples.com/ pandas/pandas-series-tutorial- with-examples/)	Pandas (MMKs://sparkbyexamples.com/python- (https://sparkbyexamples.com/author/admin/) - Pandas pandas-(https://sparkbyexamples)com/category/pandas/)
Pandas – Install on Windows (https://sparkbyexamples.com/ pandas/install-pandas-on- windows/)	/ Python
pandas/pandas-create-dataframe-with-examples/)  Pandas – Select Rows (https://sparkbyexamples.com/pandas/pandas-select-rows-by-	group of rows and columns by label(s) or a boolean array. Pandas  Kafka DataFrameperlabtwoodimplessionan/apache- tabular data structure with labeled  axes. i.e. columns and rows.  Kafka-tutorials-with-examples/ DataFrame
Pandas – Select Columns (https://sparkbyexamples.com/ pandas/pandas-select- columns-by-name-or-index/)	results in a new DataFrame  containing only specified selected  H2O.ai (https://sparkbyexamples.com/h2o- columns from the original  DataFrame.
Value (https://sparkbyexamples.com/ pandas/pandas-dataframe- query-examples/)  Pandas – Get Cell Value (https://sparkbyexamples.com/	More ✓ _(https://sparkbyexamples.com/) Q
pandas/pandas-get-cell-value-from-dataframe/)  Pandas – Add New Column (https://sparkbyexamples.com/ pandas/pandas-add-column-to-dataframe/) Privacy & Cookies: This site us	es cookies. By continuing to use this website, you agree to their use.

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Pandas – Rename Column

(https://sparkbyexamples.com/

• loc is used to select/filter rows

and columns by labels.

<u>pandas/pandas-rename-</u> <u>column-in-dataframe/)</u>

Pandas – Drop Rows by Label | Index (https://sparkbyexamples.com/pandas/pandas-drop-rows-from-dataframe/)

Pandas – Drop Columns by
Label | Index
(https://sparkbyexamples.com/
pandas/pandas-drop-columnsexamples/)

Pandas – Drop Rows Based on Column Value
(https://sparkbyexamples.com/pandas/pandas-delete-rows-based-on-column-value/)

<u>Pandas – Cast Column Type</u> (<u>https://sparkbyexamples.com/pandas/pandas-change-column-data-type-dttype/</u>)

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Pandas – Get Column Names
as List
(https://sparkbyexamples.com/
pandas/pandas-get-columnnames/)

Pandas - Shuffle DataFrame

examples/)

- When using to select rows, you need to provide row indices label.
- It also provides a way to select rows and columns between ranges, every alternate e.t.c

pandas iloc[]

(https://sparkbyexamples.com/panda s/pandas-iloc-usage-with-examples) is another property of DataFrame that is used to operate on column position and row indices. For a better understanding of these two learn the differences and similarities between pandas loc[] vs iloc[] (https://sparkbyexamples.com/panda s/pandas-difference-between-loc-vsiloc-in-dataframe)

1.

# pandas.DataFrame.loc[] Syntax & Usage

loc is used to select rows and columns by names/labels of pandas DataFrame. One of the main advantages of DataFrame is its ease of use. You can see this yourself when you use pandas.DataFrame.loc[] attribute to select or filter DataFrame rows or columns. This is mostly used attribute in pandas DataFrame.

Rows
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<u>Pandas – Join DataFrames</u>
(<a href="https://sparkbyexamples.com/pandas/pandas-join-explained-with-examples/">https://sparkbyexamples.com/pandas/pandas-join-explained-with-examples/</a>)

Pandas – Merge DataFrames (https://sparkbyexamples.com/ pandas/pandas-mergedataframes-explainedexamples/).

Pandas – Concat DataFrames (https://sparkbyexamples.com/ pandas/pandas-concatdataframes-explained/)

<u>Pandas – Append DataFrames</u> (<u>https://sparkbyexamples.com/pandas/pandas-append-usage-by-examples/)</u>

<u>Pandas – Fill NaN with Value</u> (<a href="https://sparkbyexamples.com/pandas/pandas-dataframe-fill-nan-column-values/">https://sparkbyexamples.com/pandas/pandas-dataframe-fill-nan-column-values/</a>)

Pandas – Drop Rows with NaN (https://sparkbyexamples.com/pandas/pandas-dropna-usage-examples/)

### Pandas Load & Write Files

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Pandas – Read Excel (https://sparkbyexamples.com/ pandas/pandas-read-excel-



#### pandas loc[]

- START is the name of the row/column label
- STOP is the name of the last row/column label to take, and
- STEP as the number of indices to advance after each extraction

#### Key points

- By not providing a start row/column, loc[] selects from the beginning.
- By not providing stop, loc[] selects all rows/columns from the start label.
- Providing both start and stop, selects all rows/columns in between

Let's create a DataFrame and explore how to use pandas loc[].

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<u>pandas/pandas-write-to-excel-with-examples/)</u>

<u>Pandas – Read Text</u> (<u>https://sparkbyexamples.com/pandas/pandas-read-text-into-dataframe/)</u>

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### Pandas Functions Usage

pandas - Index (https://sparkbyexamples.com/ pandas/pandas-indexexplained-with-examples/)

pandas — MultiIndex
(https://sparkbyexamples.com/
pandas/pandas-multiindexdataframe-examples/)

pandas = loc[]
(https://sparkbyexamples.com/
pandas/pandas-dataframe-loc/)

pandas - iloc[]
(https://sparkbyexamples.com/
pandas/pandas-iloc-usagewith-examples/)

pandas = filter()
(https://sparkbyexamples.com/
pandas/pandas-dataframefilter/)

pandas - where()
(https://sparkbyexamples.com/
pandas/pandas-dataframewhere-examples/)

pandas = query()
(https://sparkbyexamples.com/
pandas/pandas-dataframequery-examples/)

pandas - apply()
(https://sparkbyexamples.com/

import pandas as pd technologies = { 'Courses':["Spark","PySpa 'Fee' : [20000,25000,26000 'Duration':['30day','40da 'Discount':[1000,2300,120 index labels=['r1','r2','r3' df = pd.DataFrame(technologie print(df) # Outputs #r1 20000 30day Spark #r2 PySpark 25000 40days #r3 Hadoop 26000 35days #r4 Python 40days 22000 #r5 pandas 24000 60days

	loc[] - By Label
Select Single Row	df.loc['r2']
Select Single Column	df.loc[:, "Courses"]
Select Multiple Rows	df.loc[['r2','r3']]
Select Multiple Columns	df.loc[:, ["Courses","Fee"]]
Select Rows Range	df.loc['r1':'r4']
Select Columns Range	df.loc[:,'Fee':'Discount']
Select Alternate Rows	df.loc['r1':'r4':1]
Select Alternate Columns	df.loc[:,'Fee':'Discount':1]
Using Condition	df.loc[df['Fee'] >= 24000]
Using Lambda Function	df.loc[lambda x: x[3]]

pandas DataFrame loc[] usage

# 2. Select Single Row & Column By Label using loc[]

By using pandas loc[] you can select the rows and columns by name. This also supports selecting multiple rows and columns, records between two rows, between two columns e.t.c

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<u>pandas – map()</u> (https://sparkbyexamples.com/ Alternatively, you can also <u>select</u> rows using DataFrame.query()

<u>pandas/pandas-map-function-explained/)</u>

pandas = replace()
(https://sparkbyexamples.com/
pandas/pandas-replace-byexamples/)

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(https://sparkbyexamples.com/
pandas/pandas-dataframefillna-fill-nan-column-values/)

pandas - dropna()
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pandas - drop()
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pandas - mean()
(https://sparkbyexamples.com/
pandas/pandas-dataframemean-examples/)

drop\_duplicates/)

(https://sparkbyexamples.com/panda
s/pandas-filter-rows-from-dataframequery/) method

# Select Single Row by Label print(df.loc['r2']) # Outputs #Courses PySpark #Fee 25000 #Duration 40days #Discount 2300 #Name: r2, dtype: object In order to select column by label

```
# Select Single Column by lab
print(df.loc[:, "Courses"])

#Outputs
# Courses
#r1 Spark
#r2 PySpark
#r3 Hadoop
#r4 Python
#r5 pandas
```

#### 3. Select Multiple Rows

#### & Columns

Now, let's see how to select multiple rows and columns by labels using

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(https://sparkbyexamples.com/
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pandas = mean()
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pandas/pandas-dataframemean-examples/)

pandas - groupby()
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pandas/pandas-groupbyexplained-with-examples/)

pandas = isin()
(https://sparkbyexamples.com/
pandas/pandas-isin-explainedwith-examples/)

pandas - astype()
(https://sparkbyexamples.com/
pandas/pandas-dataframeastype-examples/)

pandas - to\_datetime()
(https://sparkbyexamples.com/
pandas/pandas-to\_datetimeexamples/)

pandas - head() - Returns Top
N Rows
(https://sparkbyexamples.com/
pandas/pandas-head-returnstop-n-rows/)

## Pandas Most Used Examples

Pandas – Create DataFrame
From Dict (Dictionary)
(https://sparkbyexamples.com/
pandas/pandas-createdataframe-from-dictdictionary/)

Pandas - Replace NaN with

```
# Select Multiple Rows by Lab
print(df.loc[['r2','r3']])

# Outputs
# Courses Fee Duration
#r2 PySpark 25000 40days
#r3 Hadoop 26000 35days
```

Similarly to select multiple columns from pandas DataFrame (https://sparkbyexamples.com/pandas/pandas-select-dataframe-columns-by-label-or-index/).

```
# Select Multiple Columns by
print(df.loc[:, ["Courses","F
# Outputs
     Courses
#
                 Fee
                      Discount
#r1
       Spark
              20000
                          1000
#r2 PySpark
               25000
                          2300
#r3
      Hadoop
               26000
                          1200
#r4
      Pvthon
               22000
                          2500
               24000
                          2000
#r5
      pandas
```

#### 4. Select Between Two

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pandas/pandas-replace-nan-

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Pandas – Replace NaN Values with Zero in a Column (https://sparkbyexamples.com/ pandas/pandas-replace-nanvalues-by-zero-in-a-column/)

Pandas – Change Column

Data Type On DataFrame
(https://sparkbyexamples.com/
pandas/pandas-changecolumn-data-type-dttype/)

Pandas – Select Rows Based on Column Values (https://sparkbyexamples.com/ pandas/pandas-selectdataframe-rows-based-oncolumn-values/)

Pandas – Delete Rows Based on Column Value (https://sparkbyexamples.com/ pandas/pandas-delete-rowsbased-on-column-value/)

Pandas – How to Change
Position of a Column
(https://sparkbyexamples.com/
pandas/pandas-changeposition-of-a-column/)

Pandas — Append a List as a Row to DataFrame (https://sparkbyexamples.com/ pandas/pandas-append-list-asa-row-to-dataframe/)

Pandas – Filter by Column

Value
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pandas/pandas-filter-bycolumn-value/)

Pandas – Convert Single or All Columns To String Type?
(https://sparkbyexamples.com/pandas/pandas-convert-columns-to-string-type/)

Pandas Get Count of Each
Row of DataFrame
(https://sparkbyexamples.com/

loc[] also supports rows and columns by range. For example all items between two rows/columns. all items starting from e.t.c. The below example selects rows in between r1 and r4.

```
# Select Rows Between two Ind
# Includes both r1 and r4 row
print(df.loc['r1':'r4'])
# Outputs
#
     Courses
                 Fee Duration
#r1
       Spark
              20000
                        30dav
#r2
     PySpark
               25000
                       40days
      Hadoop
               26000
#r3
                       35days
#r4
      Python
               22000
                       40days
```

To select between two column names. The below example selects all columns between Fee and Discount column labels.

```
# Select Columns between two
# Includes both 'Fee' and 'Di
print(df.loc[:,'Fee':'Discour
# Outputs
#
       Fee Duration Discount
#r1
     20000
               30day
                           1000
     25000
#r2
              40days
                           2300
     26000
              35days
#r3
                           1200
#r4
     22000
              40days
                           2500
#r5
     24000
              60days
                           2000
```

#### 5. Select Alternate

pandas/pandas-get-count-<u>Partya-Cya la frankies: The list of the</u>

Pandas – Difference Between loc and iloc in DataFrame (https://sparkbyexamples.com/-

<u>pandas/pandas-difference-between-loc-vs-iloc-in-dataframe/)</u>

Pandas – Replace substring in DataFrame (https://sparkbyexamples.com/pandas/pandas-replace-substring-in-dataframe/)

Pandas groupby() and sum().
With Examples
(https://sparkbyexamples.com/
pandas/pandas-groupby-sumexamples/).

Pandas – Change the Order of
DataFrame Columns
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pandas – Find Installed

Version?
(https://sparkbyexamples.com/
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<u>Upgrade Pandas Version to</u>
<u>Latest or Specific Version</u>
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Pandas – How to Combine Two Series into a DataFrame (https://sparkbyexamples.com/ pandas/pandas-combine-twoseries-into-dataframe/)

Pandas – Remap Values in
Column with a Dict
(https://sparkbyexamples.com/
pandas/pandas-remap-valuesin-column-with-a-dictionarydict/)

Pandas – Get Column Names from DataFrame (https://sparkbyexamples.com/ pandas/pandas-get-columnSimilarly, by using ranges you can also select every alternate row from DataFrame.

```
# Select Alternate rows By ir
print(df.loc['r1':'r4':2])

# Outputs
# Courses Fee Duration
#r1 Spark 20000 30day
#r3 Hadoop 26000 35days
```

To select alternate columns use

```
# Select Alternate Columns be
print(df.loc[:,'Fee':'Discour
# Output
#
       Fee
             Discount
#r1
     20000
                 1000
#r2
     25000
                 2300
#r3
     26000
                 1200
     22000
#r4
                 2500
#r5
     24000
                 2000
```

# 6. Using Conditions with pandas loc

By using loc select DataFrame rows with conditions
(https://sparkbyexamples.com/panda s/pandas-loc-multiple-conditions).

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Pandas - Check If DataFrame

is Empty

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<u>pandas/pandas-check-whether-dataframe-is-empty/)</u>

Pandas – Select All Columns

Except One Column
(https://sparkbyexamples.com/
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Index to Column in DataFrame
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Pandas – How to Check If any Value is NaN in a DataFrame (https://sparkbyexamples.com/ pandas/pandas-check-if-anyvalue-is-nan-in-a-dataframe/)

Pandas – Combine Two
Columns of Text in DataFrame
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Pandas – How to Drop Rows
with NaN Values in DataFrame
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Pandas – Change Specific
Column Name
(https://sparkbyexamples.com/
pandas/pandas-changespecific-column-name/)

pandas - Append Row to

# Using Conditions print(df.loc[df['Fee'] >= 240 # Output Courses Fee Duration PySpark 25000 40days Hadoop #r3 26000 35days #r5 pandas 24000 60davs

# 7. Complete Examples of pandas DataFrame loc

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pandas-dataframe/)

```
import pandas as pd
technologies = {
    'Courses':["Spark","PySpa
    'Fee' : [20000,25000,26000
    'Duration':['30day','40da
    'Discount':[1000,2300,120
index labels=['r1','r2','r3'
df = pd.DataFrame(technologie)
print(df)
# Select single Row
print(df.loc['r2'])
# Select Single Column by lat
print(df.loc[:, "Courses"])
# Select Multiple Rows by Lat
print(df.loc[['r2','r3']])
# Select Multiple Columns by
print(df.loc[:, ["Courses","f
# Select Rows Between two Ind
# Includes both r1 and r4 row
print(df.loc['r1':'r4'])
# Select Columns between two
# Includes both 'Fee' and 'Di
print(df.loc[:,'Fee':'Discour
# Select Alternate rows By in
print(df.loc['r1':'r4':2])
# Select Alternate Columns be
print(df.loc[:,'Fee':'Discour
# Using Conditions
print(df.loc[df['Fee'] >= 24@
```

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In this article, you have learned the syntax, usage, and examples of pandas DataFrame loc property.

DataFrame.loc[] is label-based to select rows and/or columns in pandas. It accepts single label, multiple labels from the list, by a range (between two indexes labels), and many more.

Happy Learning !!

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- How to Change Position of a
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   (https://sparkbyexamples.com/pan
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   DataFrame
   (https://sparkbyexamples.com/pandas/pandas-append-list-as-a-row-to-dataframe/)
- Pandas Shuffle DataFrame Rows
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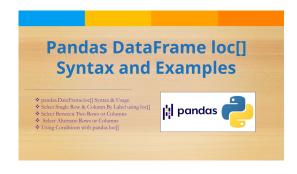
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