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 November 19, 2022

How to add a column based on another existing column in Pandas DataFrame. You can add/append a new column to the DataFrame based on the values of another column using `df.assign()`, `df.apply()`, and, `np.where()` functions and return a new Dataframe after adding a new column.

In this article, I will explain how to add/append a column to the DataFrame based on the values of another column using multiple functions with well-defined examples.

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1. Quick Examples of Add Column Based on Another Column

Following are examples of adding a column based on another column.

```
# Below are the quick examples
# Example 1: Add Column using arithmetic
# based on existing column
df["Final_Fee"] = df["Fee"] - df["Discount"]

# Example 2: Add New Column using assign
df = pd.DataFrame(technologies)
df1 = df.assign(Discount_Percent=10)

# Example 3: Add column using np.where
df['Discount_rating'] = np.where(df['Discount'] > 10, 'High', 'Low')

# Example 4: Add column using apply
df['Final_fee'] = df.apply(lambda x: x['Fee'] - x['Discount'], axis=1)

# Example 5: Add column to DataFrame
df['Without_discount'] = df.loc[:, ['Fee', 'Discount']].apply(lambda x: x['Fee'] - x['Discount'], axis=1)
```

Now, let's [create a DataFrame](#)
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Let's create a Pandas DataFrame with sample data and execute the above examples.

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```
import pandas as pd
import numpy as np
technologies= {
    'Courses': ["Spark", "PySpark", "Hadoop"],
    'Fee' : [22000, 25000, 23000, 24000, 26000],
    'Discount': [1000, 2300, 1000, 1200, 2500]
}

df = pd.DataFrame(technologies)
print(df)
```

Yields below output.

```
# Output:
   Courses  Fee  Discount
0   Spark 22000     1000
1 PySpark 25000     2300
2   Hadoop 23000     1000
3   Python 24000     1200
4   Pandas 26000     2500
```

2. Pandas Add Column

Based on Existing Column

To add a new column based on an existing column in Pandas DataFrame use the `df[]` notation. We can derive a new column by computing arithmetic operations on existing columns and assign the result as a new column to DataFrame. This process is the fastest and simplest way of creating a new column using another column of DataFrame.

```
# Add column using arithmetic operation
# based on existing columns
df["Final_Fee"] = df["Fee"] - df["Discount"]
print(df)
```

Yields below output.

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```
# Output:
   Courses  Fee  Discount  Final_F
0   Spark 22000     1000     21
1  PySpark 25000     2300     22
2   Hadoop 23000     1000     22
3   Python 24000     1200     22
4   Pandas 26000     2500     23
```

3. Adding a Column using assign()

In real-time, we are mostly required to add a column by calculating from an existing column, the below example derives the Discount_Percent column from Fee and Discount. Here, I will use [lambda](#) to derive a new column (<https://sparkbyexamples.com/pandas/pandas-apply-with-lambda-examples/>) from the existing one.

```
# Add New Column from Existing Column
df = pd.DataFrame(technologies)
df1 = df.assign(Discount_Percent=lambda x: x['Fee'] - x['Discount'])
print(df1)
```

Yields below output. Similarly, you can also derive multiple columns and add them to a DataFrame in a single statement, I will leave this to you to explore.

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```
# Output:
   Courses  Fee  Discount  Discount
0   Spark 22000     1000
1 PySpark 25000     2300
2   Hadoop 23000     1000
3   Python 24000     1200
4   Pandas 26000     2500
```

4. Pandas Add Column Using NumPy where()

Alternatively, we can create and add a new column in pandas DataFrames based on the values of existing columns using

[numpy.where\(\)](#)
(<https://sparkbyexamples.com/numpy/numpy-where-function/>) function. In this example, I will add a new column, that I have to create based on the 'Discount' column of the given DataFrame.

```
# Add column using np.where()
df['Discount Rating'] = np.where(df['Discount'] > 2000, 'High', 'Low')
```

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Yields below output.

Output:

	Courses	Fee	Discount	Discount
0	Spark	22000		1000
1	PySpark	25000		2300
2	Hadoop	23000		1000
3	Python	24000		1200
4	Pandas	26000		2500

5. Add Column Using apply()

Using [apply\(\)](#) function

(<https://sparkbyexamples.com/pandas/pandas-apply-function-to-every-row/>) we can add a required column to DataFrame by calculating values from an existing column. The below example derives the Final_fee column from Fee and Discount. Here, I will use lambda to derive a new column.

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[Pandas – How to Drop Rows with NaN Values in DataFrame](#)
(<https://sparkbyexamples.com/pandas/pandas-drop-rows-with-nan-values-in-dataframe/>).

```
# Add column using apply()
df['Final_fee'] = df.apply(lambda x:
print(df)
```

Yields below output.

```
# Output:
   Courses  Fee  Discount  Final_f
0   Spark 22000      1000      210
1 PySpark 25000      2300      227
2   Hadoop 23000      1000      220
3   Python 24000      1200      228
4   Pandas 26000      2500      235
```

6. Add Column to DataFrame using loc[]

Moreover, we can add a column to DataFrame based on the values of existing columns using `Pandas.DataFrame.loc[]` (<https://sparkbyexamples.com/pandas/pandas-dataframe-loc/>) attribute. `loc[]` is used to select rows and columns by names/labels of pandas DataFrame. Here, I will [select multiple columns of DataFrame using the loc\[\]](#) (<https://sparkbyexamples.com/pandas/pandas-select-dataframe-columns-by-label-or-index/>) attribute and then call the `sum()` function. This syntax will add the new column to DataFrame.

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[Pandas – Append Row to DataFrame](#)
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```
# Add column to DataFrame using loc[
df['Without_discount'] = df.loc[:,['
print(df)
```


Yields below output.

```
# Output:
   Courses  Fee  Discount  Without
0   Spark 22000     1000
1 PySpark 25000     2300
2   Hadoop 23000     1000
3   Python 24000     1200
4   Pandas 26000     2500
```

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7. Conclusion

In this article, I have explained how to add/append a column to the Pandas DataFrame based on the values of another column using multiple functions and also I explained how to use basic arithmetic operations and other functions

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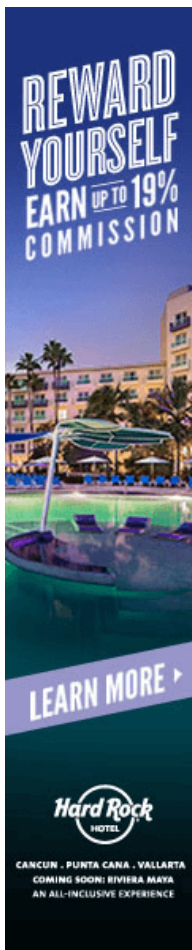
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References

- <https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.assign.html>
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