bking

September 27, 2021

```
In [6]: import pandas as pd
        pd.__version__

Out[6]: '1.1.2'

In [8]: import numpy as np

In [9]: df = pd.read_csv("booking_new.csv")
        df.head(4)

Out[9]:    Booking ID  Support ID    Booking time On board duration   Completed Time  \
        0   7044732.0    162324.0  5/31/2021 22:52               NaN  5/31/2021 23:07
        1   7043483.0    217568.0  5/31/2021 20:23         22 min(s)  5/31/2021 21:26
        2   7043390.0    217568.0  5/31/2021 20:10               NaN  5/31/2021 20:22
        3   7043013.0     19304.0  5/31/2021 19:24               NaN  5/31/2021 19:39

           P.O.B distance(km) Subtotal FF($)  Promo amt($)  Airport fee($)  \
        0                0.00              0           0.0             0.0
        1               17.35          76.33           0.0             0.0
        2                0.00              0           0.0             0.0
        3                0.00              0           0.0             0.0

           Meet driver($)  Tech fee($)  Booking fee($)  Tip amt($) Total amt($)  \
        0             0.0          0.0             0.0        0.00            0
        1             0.0          2.0             0.0        3.82        82.15
        2             0.0          0.0             0.0        0.00            0
        3             0.0          0.0             0.0        0.00            0

          Actual received($)                Paid by  \
        0                  0     Canceled by timeout
        1              82.15           Personal card
        2                  0   Canceled by passenger
        3                  0     Canceled by timeout

                    Pickup location lat/long Actual destination lat/long
        0  -35.220532145327226, 149.07818982079132     -35.3441316, 149.0868669
        1   -35.34643558953422, 149.24807768315077     -35.4244069, 149.1148269
        2             -35.3464312, 149.2481617     -35.4244069, 149.1148269
        3             -35.2340673, 149.0597565      -35.2183665, 149.057927
```

```
In [23]: df.rename(columns={'Completed Time':'transaction_date'},inplace=True)

In [27]: df.rename(columns={'Paid by':'payment_status'},inplace=True)

In [29]: df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 261 entries, 0 to 260
Data columns (total 21 columns):
 #   Column                     Non-Null Count  Dtype
---  ------                     --------------  -----
 0   Booking ID                 260 non-null    float64
 1   Support ID                 254 non-null    float64
 2   Booking time               260 non-null    object
 3   On board duration          99 non-null     object
 4   transaction_date           260 non-null    datetime64[ns]
 5   P.O.B distance(km)         260 non-null    float64
 6   Subtotal FF($)             260 non-null    object
 7   Promo amt($)               260 non-null    float64
 8   Airport fee($)             260 non-null    float64
 9   Meet driver($)             260 non-null    float64
 10  Tech fee($)                260 non-null    float64
 11  Booking fee($)             260 non-null    float64
 12  Tip amt($)                 260 non-null    float64
 13  Total amt($)               260 non-null    object
 14  Actual received($)         260 non-null    object
 15  payment_status             261 non-null    object
 16  Pickup location lat/long   260 non-null    object
 17  Actual destination lat/long 260 non-null   object
 18  year                       260 non-null    float64
 19  month                      260 non-null    float64
 20  week                       260 non-null    float64
dtypes: datetime64[ns](1), float64(12), object(8)
memory usage: 42.9+ KB


In [30]: df['payment_status'] = df['payment_status'].astype(str)

In [31]: np.unique(df['payment_status'])

Out[31]: array(['Canceled by CC', 'Canceled by Corporate Admin',
               'Canceled by passenger', 'Canceled by timeout', 'Cash',
               'Direct invoicing', 'Incident', 'No show', 'Personal card', 'nan'],
              dtype=object)

In [79]: df_1=df[df.payment_status != 'Canceled by CC']
         df_1

Out[79]:        Booking ID  Support ID     Booking time On board duration  \
         0      7044732.0    162324.0  5/31/2021 22:52                NaN
```

1	7043483.0	217568.0	5/31/2021 20:23	22 min(s)
2	7043390.0	217568.0	5/31/2021 20:10	NaN
3	7043013.0	19304.0	5/31/2021 19:24	NaN
4	7042401.0	217646.0	5/31/2021 17:28	NaN
..	...	...	...	...
256	6935481.0	199574.0	4/30/2021 23:31	26 min(s)
257	6935434.0	199570.0	4/30/2021 23:15	0 min
258	6935617.0	199586.0	5/1/2021 0:13	NaN
259	6935611.0	199572.0	5/1/2021 0:11	NaN
260	NaN	NaN	NaN	NaN

	transaction_date	P.O.B distance(km)	Subtotal FF($)	Promo amt($)	\
0	2021-05-31 23:07:00	0.00	0	0.0	
1	2021-05-31 21:26:00	17.35	76.33	0.0	
2	2021-05-31 20:22:00	0.00	0	0.0	
3	2021-05-31 19:39:00	0.00	0	0.0	
4	2021-05-31 17:30:00	0.00	0	0.0	
..	...	...	...	...	
256	2021-05-01 00:45:00	23.59	100.07	0.0	
257	2021-05-01 00:30:00	21.33	92.61	0.0	
258	2021-05-01 00:28:00	0.00	0	0.0	
259	2021-05-01 00:14:00	0.00	0	0.0	
260	NaT	NaN	NaN	NaN	

	Airport fee($)	Meet driver($)	...	Booking fee($)	Tip amt($)	\
0	0.0	0.0	...	0.0	0.00	
1	0.0	0.0	...	0.0	3.82	
2	0.0	0.0	...	0.0	0.00	
3	0.0	0.0	...	0.0	0.00	
4	0.0	0.0	...	0.0	0.00	
..	...	...	...	...	...	
256	0.0	0.0	...	0.0	0.00	
257	0.0	0.0	...	0.0	0.00	
258	0.0	0.0	...	0.0	0.00	
259	0.0	0.0	...	0.0	0.00	
260	NaN	NaN	...	NaN	NaN	

	Total amt($)	Actual received($)	payment_status	\
0	0	0	Canceled by timeout	
1	82.15	82.15	Personal card	
2	0	0	Canceled by passenger	
3	0	0	Canceled by timeout	
4	0	0	Canceled by passenger	
..	...	...	...	
256	102.07	102.07	Personal card	
257	94.61	94.61	Personal card	
258	0	0	Canceled by timeout	
259	0	0	Canceled by passenger	

```
260          NaN            NaN               nan

                    Pickup location lat/long      Actual destination lat/long  \
0       -35.220532145327226, 149.07818982079132      -35.3441316, 149.0868669
1        -35.34643558953422, 149.24807768315077      -35.4244069, 149.1148269
2                     -35.3464312, 149.2481617      -35.4244069, 149.1148269
3                     -35.2340673, 149.0597565       -35.2183665, 149.057927
4                     -35.2432823, 149.0557621      -35.1557942, 149.1032343
..                                          ...                           ...
256      -35.330657958984375, 149.1832514255077  -35.39551489999999, 149.0882596
257      -35.233944858320335, 149.0598960913726       -35.3715363, 149.105409
258       -35.24969482421875, 149.13741630619074      -35.3286432, 149.1415546
259       -35.10789628873587, 147.36243043094873       -35.0686344, 147.3753516
260                                          NaN                           NaN


        year  month  week
0      2021.0    5.0   5.0
1      2021.0    5.0   5.0
2      2021.0    5.0   5.0
3      2021.0    5.0   5.0
4      2021.0    5.0   5.0
..        ...    ...   ...
256    2021.0    5.0   5.0
257    2021.0    5.0   5.0
258    2021.0    5.0   5.0
259    2021.0    5.0   5.0
260       NaN    NaN   NaN

[258 rows x 21 columns]

In [80]: df_2=df_1[df_1.payment_status != 'Canceled by Corporate Admin']
         df_2

Out[80]:      Booking ID  Support ID     Booking time On board duration  \
0       7044732.0    162324.0  5/31/2021 22:52               NaN
1       7043483.0    217568.0  5/31/2021 20:23        22 min(s)
2       7043390.0    217568.0  5/31/2021 20:10               NaN
3       7043013.0     19304.0  5/31/2021 19:24               NaN
4       7042401.0    217646.0  5/31/2021 17:28               NaN
..            ...         ...              ...               ...
256     6935481.0    199574.0  4/30/2021 23:31        26 min(s)
257     6935434.0    199570.0  4/30/2021 23:15            0 min
258     6935617.0    199586.0   5/1/2021 0:13               NaN
259     6935611.0    199572.0   5/1/2021 0:11               NaN
260          NaN         NaN              NaN               NaN


         transaction_date  P.O.B distance(km) Subtotal FF($)  Promo amt($)  \
0     2021-05-31 23:07:00                0.00              0           0.0
```

```
1   2021-05-31 21:26:00                17.35         76.33           0.0
2   2021-05-31 20:22:00                 0.00            0            0.0
3   2021-05-31 19:39:00                 0.00            0            0.0
4   2021-05-31 17:30:00                 0.00            0            0.0
..                  ...                  ...          ...            ...
256 2021-05-01 00:45:00                23.59       100.07            0.0
257 2021-05-01 00:30:00                21.33        92.61            0.0
258 2021-05-01 00:28:00                 0.00            0            0.0
259 2021-05-01 00:14:00                 0.00            0            0.0
260                 NaT                  NaN          NaN            NaN
```

```
     Airport fee($)  Meet driver($)  ...  Booking fee($)  Tip amt($)  \
0              0.0             0.0   ...            0.0        0.00
1              0.0             0.0   ...            0.0        3.82
2              0.0             0.0   ...            0.0        0.00
3              0.0             0.0   ...            0.0        0.00
4              0.0             0.0   ...            0.0        0.00
..             ...             ...   ...            ...         ...
256            0.0             0.0   ...            0.0        0.00
257            0.0             0.0   ...            0.0        0.00
258            0.0             0.0   ...            0.0        0.00
259            0.0             0.0   ...            0.0        0.00
260            NaN             NaN   ...            NaN         NaN
```

```
     Total amt($)  Actual received($)        payment_status  \
0               0                   0   Canceled by timeout
1           82.15               82.15         Personal card
2               0                   0  Canceled by passenger
3               0                   0   Canceled by timeout
4               0                   0  Canceled by passenger
..            ...                 ...                   ...
256        102.07              102.07         Personal card
257         94.61               94.61         Personal card
258             0                   0   Canceled by timeout
259             0                   0  Canceled by passenger
260           NaN                 NaN                   nan
```

```
              Pickup location lat/long        Actual destination lat/long  \
0    -35.220532145327226, 149.07818982079132      -35.3441316, 149.0868669
1    -35.34643558953422, 149.24807768315077       -35.4244069, 149.1148269
2              -35.3464312, 149.2481617           -35.4244069, 149.1148269
3              -35.2340673, 149.0597565           -35.2183665, 149.057927
4              -35.2432823, 149.0557621           -35.1557942, 149.1032343
..                                   ...                               ...
256  -35.330657958984375, 149.1832514255077   -35.39551489999999, 149.0882596
257  -35.233944858320335, 149.0598960913726       -35.3715363, 149.105409
258  -35.24969482421875, 149.13741630619074       -35.3286432, 149.1415546
259  -35.10789628873587, 147.36243043094873       -35.0686344, 147.3753516
```

```
260                                          NaN                              NaN


        year  month  week
0     2021.0    5.0   5.0
1     2021.0    5.0   5.0
2     2021.0    5.0   5.0
3     2021.0    5.0   5.0
4     2021.0    5.0   5.0
..       ...    ...   ...
256   2021.0    5.0   5.0
257   2021.0    5.0   5.0
258   2021.0    5.0   5.0
259   2021.0    5.0   5.0
260      NaN    NaN   NaN

[256 rows x 21 columns]
```

In [81]: df_3=df_2[df_2.payment_status != 'Canceled by passenger']
        df_3

Out[81]:
```
        Booking ID  Support ID      Booking time On board duration  \
0        7044732.0    162324.0   5/31/2021 22:52               NaN
1        7043483.0    217568.0   5/31/2021 20:23        22 min(s)
3        7043013.0     19304.0   5/31/2021 19:24               NaN
6        7037241.0    216619.0    5/31/2021 1:18               NaN
9        7036117.0    216173.0   5/30/2021 22:36               NaN
..             ...         ...               ...               ...
255      6935556.0    187780.0   4/30/2021 23:56        17 min(s)
256      6935481.0    199574.0   4/30/2021 23:31        26 min(s)
257      6935434.0    199570.0   4/30/2021 23:15            0 min
258      6935617.0    199586.0     5/1/2021 0:13               NaN
260            NaN         NaN               NaN               NaN


        transaction_date  P.O.B distance(km) Subtotal FF($)  Promo amt($)  \
0    2021-05-31 23:07:00                0.00              0           0.0
1    2021-05-31 21:26:00               17.35          76.33           0.0
3    2021-05-31 19:39:00                0.00              0           0.0
6    2021-05-31 01:33:00                0.00              0           0.0
9    2021-05-30 22:51:00                0.00              0           0.0
..                   ...                 ...            ...           ...
255  2021-05-01 00:51:00                9.09          34.18          15.0
256  2021-05-01 00:45:00               23.59         100.07           0.0
257  2021-05-01 00:30:00               21.33          92.61           0.0
258  2021-05-01 00:28:00                0.00              0           0.0
260                  NaT                 NaN            NaN           NaN


        Airport fee($)  Meet driver($)  ...  Booking fee($)  Tip amt($)  \
0                  0.0             0.0  ...             0.0        0.00
```

```
1              0.0              0.0  ...              0.0       3.82
3              0.0              0.0  ...              0.0       0.00
6              0.0              0.0  ...              0.0       0.00
9              0.0              0.0  ...              0.0       0.00
..             ...              ...  ...              ...        ...
255            0.0              0.0  ...              0.0       0.00
256            0.0              0.0  ...              0.0       0.00
257            0.0              0.0  ...              0.0       0.00
258            0.0              0.0  ...              0.0       0.00
260            NaN              NaN  ...              NaN        NaN

     Total amt($) Actual received($)      payment_status  \
0               0                  0  Canceled by timeout
1           82.15              82.15        Personal card
3               0                  0  Canceled by timeout
6               0                  0  Canceled by timeout
9               0                  0  Canceled by timeout
..            ...                ...                  ...
255         21.18              21.18        Personal card
256        102.07             102.07        Personal card
257         94.61              94.61        Personal card
258             0                  0  Canceled by timeout
260           NaN                NaN                  nan

                   Pickup location lat/long          Actual destination lat/long  \
0     -35.220532145327226, 149.07818982079132          -35.3441316, 149.0868669
1     -35.34643558953422, 149.24807768315077          -35.4244069, 149.1148269
3                 -35.2340673, 149.0597565          -35.2183665, 149.057927
6                 -35.275163, 149.1322018   -35.43896780000001, 149.0954537
9                 -35.1698794, 149.0984796          -35.3125845, 149.1463969
..                                     ...                                  ...
255   -28.00275949695448, 153.42757060145323          -27.9679844, 153.3805562
256   -35.330657958984375, 149.1832514255077   -35.39551489999999, 149.0882596
257   -35.233944858320335, 149.0598960913726          -35.3715363, 149.105409
258   -35.24969482421875, 149.13741630619074          -35.3286432, 149.1415546
260                                     NaN                                  NaN

       year  month  week
0    2021.0    5.0   5.0
1    2021.0    5.0   5.0
3    2021.0    5.0   5.0
6    2021.0    5.0   5.0
9    2021.0    5.0   5.0
..      ...    ...   ...
255  2021.0    5.0   5.0
256  2021.0    5.0   5.0
257  2021.0    5.0   5.0
258  2021.0    5.0   5.0
```

```
260      NaN     NaN    NaN

[173 rows x 21 columns]
```

```
Out[83]:      Booking ID  Support ID   Booking time On board duration  \
        1     7043483.0    217568.0  5/31/2021 20:23        22 min(s)
        17    7019531.0    209563.0  5/28/2021 15:42        13 min(s)
        18    7026443.0    212398.0  5/29/2021 17:27        37 min(s)
        19    7019883.0    209745.0  5/28/2021 18:17        27 min(s)
        20    7027851.0    213749.0  5/29/2021 22:14        27 min(s)
        ..          ...         ...             ...              ...
        253   6935704.0    197370.0   5/1/2021 0:44         3 min(s)
        255   6935556.0    187780.0  4/30/2021 23:56        17 min(s)
        256   6935481.0    199574.0  4/30/2021 23:31        26 min(s)
        257   6935434.0    199570.0  4/30/2021 23:15            0 min
        260         NaN         NaN             NaN              NaN

               transaction_date  P.O.B distance(km)  Subtotal FF($)  Promo amt($)  \
        1    2021-05-31 21:26:00               17.35           76.33           0.0
        17   2021-05-30 01:38:00               10.47           41.87          15.0
        18   2021-05-30 01:08:00               33.41          106.98           0.0
        19   2021-05-29 23:41:00               23.95          103.51          15.0
        20   2021-05-29 23:17:00               18.63           71.86           0.0
        ..                   ...                 ...             ...            ...
        253  2021-05-01 01:11:00                1.04           24.95           0.0
        255  2021-05-01 00:51:00                9.09           34.18          15.0
        256  2021-05-01 00:45:00               23.59          100.07           0.0
        257  2021-05-01 00:30:00               21.33           92.61           0.0
        260                  NaT                 NaN             NaN            NaN

             Airport fee($)  Meet driver($)  ...  Booking fee($)  Tip amt($)  \
        1               0.0             0.0  ...             0.0        3.82
        17              0.0             0.0  ...             0.0        0.00
        18              0.0             0.0  ...             0.0        0.00
        19              0.0             0.0  ...             0.0        0.00
        20              0.0             0.0  ...             0.0        0.00
        ..              ...             ...  ...             ...         ...
        253             0.0             0.0  ...             0.0        0.00
        255             0.0             0.0  ...             0.0        0.00
        256             0.0             0.0  ...             0.0        0.00
        257             0.0             0.0  ...             0.0        0.00
        260             NaN             NaN  ...             NaN         NaN

             Total amt($)  Actual received($) payment_status  \
        1           82.15               82.15  Personal card
```

```
17            28.87            28.87  Personal card
18           108.98           108.98  Personal card
19            90.51            90.51  Personal card
20            73.86            73.86  Personal card
..              ...              ...            ...
253           26.95            26.95  Personal card
255           21.18            21.18  Personal card
256          102.07           102.07  Personal card
257           94.61            94.61  Personal card
260             NaN              NaN            nan

                    Pickup location lat/long        Actual destination lat/long  \
1      -35.34643558953422, 149.24807768315077          -35.4244069, 149.1148269
17                 -28.1368301, 153.3998969            -28.0860352, 153.3935154
18                 -27.9397766, 153.3676497            -28.1422594, 153.4626538
19                 -35.3420801, 149.0868309            -35.1979926, 149.0364016
20      -35.277562862846075, 149.13189359523795        -35.3624863, 149.2313994
..                                       ...                                ...
253                -35.2791318, 149.1267691    -35.28051689999999, 149.1308614
255    -28.00275949695448, 153.42757060145323          -27.9679844, 153.3805562
256    -35.330657958984375, 149.1832514255077    -35.39551489999999, 149.0882596
257    -35.233944858320335, 149.0598960913726          -35.3715363, 149.105409
260                                      NaN                                NaN


         year  month  week
1      2021.0    5.0   5.0
17     2021.0    5.0   5.0
18     2021.0    5.0   5.0
19     2021.0    5.0   5.0
20     2021.0    5.0   5.0
..        ...    ...   ...
253    2021.0    5.0   5.0
255    2021.0    5.0   5.0
256    2021.0    5.0   5.0
257    2021.0    5.0   5.0
260       NaN    NaN   NaN

[102 rows x 21 columns]

In [90]: df_5=df_4[df_4.payment_status != 'Incident']

In [91]: df_5

Out[91]:      Booking ID  Support ID     Booking time On board duration  \
        1     7043483.0    217568.0  5/31/2021 20:23        22 min(s)
        17    7019531.0    209563.0  5/28/2021 15:42        13 min(s)
        18    7026443.0    212398.0  5/29/2021 17:27        37 min(s)
        19    7019883.0    209745.0  5/28/2021 18:17        27 min(s)
```

```
20     7027851.0    213749.0   5/29/2021 22:14          27 min(s)
..           ...         ...               ...                ...
253    6935704.0    197370.0    5/1/2021 0:44           3 min(s)
255    6935556.0    187780.0   4/30/2021 23:56          17 min(s)
256    6935481.0    199574.0   4/30/2021 23:31          26 min(s)
257    6935434.0    199570.0   4/30/2021 23:15             0 min
260          NaN         NaN               NaN               NaN
```

```
         transaction_date  P.O.B distance(km)  Subtotal FF($)  Promo amt($)  \
1     2021-05-31 21:26:00               17.35           76.33           0.0
17    2021-05-30 01:38:00               10.47           41.87          15.0
18    2021-05-30 01:08:00               33.41          106.98           0.0
19    2021-05-29 23:41:00               23.95          103.51          15.0
20    2021-05-29 23:17:00               18.63           71.86           0.0
..                    ...                 ...             ...           ...
253   2021-05-01 01:11:00                1.04           24.95           0.0
255   2021-05-01 00:51:00                9.09           34.18          15.0
256   2021-05-01 00:45:00               23.59          100.07           0.0
257   2021-05-01 00:30:00               21.33           92.61           0.0
260                   NaT                 NaN             NaN           NaN
```

```
      Airport fee($)  Meet driver($)  ...  Booking fee($)  Tip amt($)  \
1                0.0             0.0  ...             0.0        3.82
17               0.0             0.0  ...             0.0        0.00
18               0.0             0.0  ...             0.0        0.00
19               0.0             0.0  ...             0.0        0.00
20               0.0             0.0  ...             0.0        0.00
..               ...             ...  ...             ...         ...
253              0.0             0.0  ...             0.0        0.00
255              0.0             0.0  ...             0.0        0.00
256              0.0             0.0  ...             0.0        0.00
257              0.0             0.0  ...             0.0        0.00
260              NaN             NaN  ...             NaN         NaN
```

```
      Total amt($)  Actual received($)  payment_status  \
1            82.15               82.15   Personal card
17           28.87               28.87   Personal card
18          108.98              108.98   Personal card
19           90.51               90.51   Personal card
20           73.86               73.86   Personal card
..             ...                 ...             ...
253          26.95               26.95   Personal card
255          21.18               21.18   Personal card
256         102.07              102.07   Personal card
257          94.61               94.61   Personal card
260            NaN                 NaN             nan
```

```
                      Pickup location lat/long    Actual destination lat/long  \
```

```
1      -35.34643558953422, 149.24807768315077              -35.4244069, 149.1148269
17                -28.1368301, 153.3998969              -28.0860352, 153.3935154
18                -27.9397766, 153.3676497              -28.1422594, 153.4626538
19                -35.3420801, 149.0868309              -35.1979926, 149.0364016
20     -35.277562862846075, 149.13189359523795             -35.3624863, 149.2313994
..                                      ...                                    ...
253               -35.2791318, 149.1267691    -35.28051689999999, 149.1308614
255     -28.00275949695448, 153.42757060145323             -27.9679844, 153.3805562
256    -35.330657958984375, 149.1832514255077   -35.39551489999999, 149.0882596
257    -35.233944858320335, 149.0598960913726              -35.3715363, 149.105409
260                                      NaN                                    NaN

        year  month  week
1     2021.0    5.0   5.0
17    2021.0    5.0   5.0
18    2021.0    5.0   5.0
19    2021.0    5.0   5.0
20    2021.0    5.0   5.0
..       ...    ...   ...
253   2021.0    5.0   5.0
255   2021.0    5.0   5.0
256   2021.0    5.0   5.0
257   2021.0    5.0   5.0
260      NaN    NaN   NaN

[99 rows x 21 columns]
```

In [92]: `dfb=df_5.drop([260], axis=0)`

In [93]: `dfb.to_csv("pkup", index=False)`

In [94]: `dfb`

```
Out[94]:      Booking ID  Support ID    Booking time On board duration  \
1     7043483.0    217568.0  5/31/2021 20:23          22 min(s)
17    7019531.0    209563.0  5/28/2021 15:42          13 min(s)
18    7026443.0    212398.0  5/29/2021 17:27          37 min(s)
19    7019883.0    209745.0  5/28/2021 18:17          27 min(s)
20    7027851.0    213749.0  5/29/2021 22:14          27 min(s)
..          ...         ...             ...                ...
252   6935666.0     56277.0   5/1/2021 0:32          18 min(s)
253   6935704.0    197370.0   5/1/2021 0:44           3 min(s)
255   6935556.0    187780.0  4/30/2021 23:56          17 min(s)
256   6935481.0    199574.0  4/30/2021 23:31          26 min(s)
257   6935434.0    199570.0  4/30/2021 23:15              0 min

        transaction_date  P.O.B distance(km) Subtotal FF($)  Promo amt($)  \
1    2021-05-31 21:26:00              17.35          76.33           0.0
17   2021-05-30 01:38:00              10.47          41.87          15.0
```

```
18   2021-05-30 01:08:00                 33.41       106.98         0.0
19   2021-05-29 23:41:00                 23.95       103.51        15.0
20   2021-05-29 23:17:00                 18.63        71.86         0.0
..                   ...                   ...          ...         ...
252  2021-05-01 01:16:00                 17.14        75.55        15.0
253  2021-05-01 01:11:00                  1.04        24.95         0.0
255  2021-05-01 00:51:00                  9.09        34.18        15.0
256  2021-05-01 00:45:00                 23.59       100.07         0.0
257  2021-05-01 00:30:00                 21.33        92.61         0.0

     Airport fee($)  Meet driver($)  ...  Booking fee($)  Tip amt($)  \
1              0.0             0.0   ...             0.0        3.82
17             0.0             0.0   ...             0.0        0.00
18             0.0             0.0   ...             0.0        0.00
19             0.0             0.0   ...             0.0        0.00
20             0.0             0.0   ...             0.0        0.00
..             ...             ...   ...             ...         ...
252            0.0             0.0   ...             0.0        0.00
253            0.0             0.0   ...             0.0        0.00
255            0.0             0.0   ...             0.0        0.00
256            0.0             0.0   ...             0.0        0.00
257            0.0             0.0   ...             0.0        0.00

     Total amt($) Actual received($) payment_status  \
1           82.15              82.15  Personal card
17          28.87              28.87  Personal card
18         108.98             108.98  Personal card
19          90.51              90.51  Personal card
20          73.86              73.86  Personal card
..            ...                ...            ...
252         62.55              62.55  Personal card
253         26.95              26.95  Personal card
255         21.18              21.18  Personal card
256        102.07             102.07  Personal card
257         94.61              94.61  Personal card

                   Pickup location lat/long          Actual destination lat/long  \
1      -35.34643558953422, 149.24807768315077           -35.4244069, 149.1148269
17               -28.1368301, 153.3998969               -28.0860352, 153.3935154
18               -27.9397766, 153.3676497               -28.1422594, 153.4626538
19               -35.3420801, 149.0868309               -35.1979926, 149.0364016
20     -35.277562862846075, 149.13189359523795          -35.3624863, 149.2313994
..                                      ...                                  ...
252              -35.3255914, 149.0774735               -35.3479369, 149.2265961
253              -35.2791318, 149.1267691    -35.28051689999999, 149.1308614
255    -28.00275949695448, 153.42757060145323          -27.9679844, 153.3805562
256    -35.330657958984375, 149.1832514255077  -35.39551489999999, 149.0882596
257    -35.233944858320335, 149.0598960913726          -35.3715363, 149.105409
```

```
        year  month  week
1     2021.0    5.0   5.0
17    2021.0    5.0   5.0
18    2021.0    5.0   5.0
19    2021.0    5.0   5.0
20    2021.0    5.0   5.0
..       ...    ...   ...
252   2021.0    5.0   5.0
253   2021.0    5.0   5.0
255   2021.0    5.0   5.0
256   2021.0    5.0   5.0
257   2021.0    5.0   5.0

[98 rows x 21 columns]

In [95]: dfb1=pd.read_csv("pkup.csv")


---------------------------------------------------------------------------

FileNotFoundError                         Traceback (most recent call last)

<ipython-input-95-58fa0a3b04f1> in <module>
----> 1 dfb1=pd.read_csv("pkup.csv")


/usr/lib/python3.7/site-packages/pandas/io/parsers.py in read_csv(filepath_or_buffer, s
684        )
685
--> 686     return _read(filepath_or_buffer, kwds)
687
688


/usr/lib/python3.7/site-packages/pandas/io/parsers.py in _read(filepath_or_buffer, kwds
450
451     # Create the parser.
--> 452     parser = TextFileReader(fp_or_buf, **kwds)
453
454     if chunksize or iterator:


/usr/lib/python3.7/site-packages/pandas/io/parsers.py in __init__(self, f, engine, **kw
934               self.options["has_index_names"] = kwds["has_index_names"]
935
--> 936           self._make_engine(self.engine)
937
```

```
            938     def close(self):


        /usr/lib/python3.7/site-packages/pandas/io/parsers.py in _make_engine(self, engine)
           1166     def _make_engine(self, engine="c"):
           1167         if engine == "c":
        -> 1168             self._engine = CParserWrapper(self.f, **self.options)
           1169         else:
           1170             if engine == "python":


        /usr/lib/python3.7/site-packages/pandas/io/parsers.py in __init__(self, src, **kwds)
           1996         kwds["usecols"] = self.usecols
           1997
        -> 1998         self._reader = parsers.TextReader(src, **kwds)
           1999         self.unnamed_cols = self._reader.unnamed_cols
           2000


        pandas/_libs/parsers.pyx in pandas._libs.parsers.TextReader.__cinit__()


        pandas/_libs/parsers.pyx in pandas._libs.parsers.TextReader._setup_parser_source()


        FileNotFoundError: [Errno 2] No such file or directory: 'pkup.csv'


In [25]: df.transaction_date=pd.to_datetime(df.transaction_date)
         df['year']=df.transaction_date.dt.year
         df['month']=df.transaction_date.dt.month
         df['week']=df.transaction_date.dt.month
         df.head(80)

Out[25]:      Booking ID  Support ID     Booking time On board duration  \
         0    7044732.0    162324.0  5/31/2021 22:52               NaN
         1    7043483.0    217568.0  5/31/2021 20:23         22 min(s)
         2    7043390.0    217568.0  5/31/2021 20:10               NaN
         3    7043013.0     19304.0  5/31/2021 19:24               NaN
         4    7042401.0    217646.0  5/31/2021 17:28               NaN
         ..         ...         ...              ...               ...
         75   7000927.0     10511.0   5/23/2021 2:08               NaN
         76   7000918.0    205512.0   5/23/2021 2:05               NaN
         77   7000892.0    205512.0   5/23/2021 1:55               NaN
         78   7000869.0    205512.0   5/23/2021 1:45               NaN
         79   7000790.0    205504.0   5/23/2021 1:18               NaN

               transaction_date  P.O.B distance(km) Subtotal FF($)  Promo amt($)  \
```

```
0   2021-05-31 23:07:00              0.00              0          0.0
1   2021-05-31 21:26:00             17.35          76.33         0.0
2   2021-05-31 20:22:00              0.00              0          0.0
3   2021-05-31 19:39:00              0.00              0          0.0
4   2021-05-31 17:30:00              0.00              0          0.0
..                  ...               ...            ...          ...
75  2021-05-23 02:23:00              0.00              0          0.0
76  2021-05-23 02:14:00              0.00              0          0.0
77  2021-05-23 02:04:00              0.00              0          0.0
78  2021-05-23 01:55:00              0.00              0          0.0
79  2021-05-23 01:33:00              0.00              0          0.0

    Airport fee($)  Meet driver($)  ...  Booking fee($)  Tip amt($)  \
0             0.0             0.0  ...             0.0        0.00
1             0.0             0.0  ...             0.0        3.82
2             0.0             0.0  ...             0.0        0.00
3             0.0             0.0  ...             0.0        0.00
4             0.0             0.0  ...             0.0        0.00
..            ...             ...  ...             ...         ...
75            0.0             0.0  ...             0.0        0.00
76            0.0             0.0  ...             0.0        0.00
77            0.0             0.0  ...             0.0        0.00
78            0.0             0.0  ...             0.0        0.00
79            0.0             0.0  ...             0.0        0.00

    Total amt($) Actual received($)                  Paid by  \
0             0                  0    Canceled by timeout
1         82.15              82.15         Personal card
2             0                  0  Canceled by passenger
3             0                  0    Canceled by timeout
4             0                  0  Canceled by passenger
..          ...                ...                     ...
75            0                  0    Canceled by timeout
76            0                  0  Canceled by passenger
77            0                  0  Canceled by passenger
78            0                  0  Canceled by passenger
79            0                  0    Canceled by timeout

                    Pickup location lat/long Actual destination lat/long  \
0   -35.220532145327226, 149.07818982079132     -35.3441316, 149.0868669
1    -35.34643558953422, 149.24807768315077     -35.4244069, 149.1148269
2               -35.3464312, 149.2481617       -35.4244069, 149.1148269
3               -35.2340673, 149.0597565        -35.2183665, 149.057927
4               -35.2432823, 149.0557621       -35.1557942, 149.1032343
..                                      ...                          ...
75   -35.28249498205287, 149.12441410124302     -35.3342012, 149.1104318
76              -35.3434458, 149.0565981       -35.1995653, 149.0146309
77              -35.3434355, 149.0558749       -35.1995653, 149.0146309
```

```
78                     -35.3434503, 149.0558686     -35.1995653, 149.0146309
79                      -35.197754, 149.0278074     -35.2535123, 149.0678344

      year  month  week
0   2021.0    5.0   5.0
1   2021.0    5.0   5.0
2   2021.0    5.0   5.0
3   2021.0    5.0   5.0
4   2021.0    5.0   5.0
..     ...    ...   ...
75  2021.0    5.0   5.0
76  2021.0    5.0   5.0
77  2021.0    5.0   5.0
78  2021.0    5.0   5.0
79  2021.0    5.0   5.0

[80 rows x 21 columns]
```