## 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
            7043013.0
                           19304.0 5/31/2021 19:24
                                                                         5/31/2021 19:39
                                                                    NaN
           P.O.B distance(km) Subtotal FF($)
                                                Promo amt($)
                                                               Airport fee($)
        0
                          0.00
                                                         0.0
                                                                          0.0
                         17.35
                                        76.33
                                                         0.0
                                                                          0.0
        1
        2
                          0.00
                                                         0.0
                                                                          0.0
        3
                          0.00
                                             0
                                                         0.0
                                                                          0.0
           Meet driver($)
                            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
                                 Canceled by timeout
                            0
                        82.15
                                       Personal card
        1
        2
                            0
                               Canceled by passenger
        3
                            0
                                 Canceled by timeout
                           Pickup location lat/long Actual destination lat/long
                                                        -35.3441316, 149.0868669
        0
           -35.220532145327226, 149.07818982079132
        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
    Booking time
                                  260 non-null
                                                  object
    On board duration
                                  99 non-null
 3
                                                  object
 4
    transaction_date
                                  260 non-null
                                                  datetime64[ns]
 5
    P.O.B distance(km)
                                  260 non-null
                                                  float64
    Subtotal FF($)
                                  260 non-null
                                                  object
 7
    Promo amt($)
                                  260 non-null
                                                  float64
                                                  float64
    Airport fee($)
                                  260 non-null
    Meet driver($)
                                  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
    payment_status
                                  261 non-null
                                                  object
 16 Pickup location lat/long
                                  260 non-null
                                                  object
 17
    Actual destination lat/long 260 non-null
                                                  object
                                  260 non-null
                                                  float64
 18
    year
 19
    month
                                  260 non-null
                                                  float64
                                  260 non-null
 20 week
                                                  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
    2021-05-31 19:39:00
                                          0.00
                                                              0
                                                                           0.0
    2021-05-31 17:30:00
                                          0.00
                                                              0
                                                                           0.0
                                           . . .
                                                                           . . .
256 2021-05-01 00:45:00
                                                        100.07
                                         23.59
                                                                           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
                                          0.00
                                                                           0.0
260
                     NaT
                                           NaN
                                                            NaN
                                                                           NaN
                      Meet driver($)
     Airport fee($)
                                        ... Booking fee($) Tip amt($)
0
                 0.0
                                   0.0
                                                          0.0
                                                                      0.00
                                        . . .
                 0.0
                                   0.0
                                                          0.0
                                                                      3.82
1
2
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                                                                      0.00
3
                 0.0
                                   0.0
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4
                 0.0
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                 . . .
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256
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                                        . . .
                                                          0.0
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257
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259
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260
                 NaN
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                                                          NaN
                                                                       NaN
     Total amt($) Actual received($)
                                                 payment_status
0
                 0
                                      0
                                            Canceled by timeout
             82.15
                                 82.15
                                                  Personal card
1
2
                 0
                                      0
                                         Canceled by passenger
                 0
3
                                      0
                                           Canceled by timeout
4
                 0
                                      0
                                         Canceled by passenger
                                    . . .
               . . .
            102.07
                                102.07
256
                                                  Personal card
257
             94.61
                                  94.61
                                                  Personal card
258
                 0
                                      0
                                           Canceled by timeout
259
                 0
                                        Canceled by passenger
```

```
Pickup location lat/long
                                                               Actual destination lat/long
               -35.220532145327226, 149.07818982079132
                                                                  -35.3441316, 149.0868669
         0
         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
                -35.233944858320335, 149.0598960913726
                                                                   -35.3715363, 149.105409
         257
         258
                -35.24969482421875, 149.13741630619074
                                                                  -35.3286432, 149.1415546
                -35.10789628873587, 147.36243043094873
                                                                  -35.0686344, 147.3753516
         259
         260
                 year
                       month
                               week
         0
               2021.0
                         5.0
                                5.0
               2021.0
                         5.0
                                5.0
         1
         2
                         5.0
               2021.0
                                5.0
         3
               2021.0
                         5.0
                                5.0
         4
               2021.0
                         5.0
                                5.0
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         256
              2021.0
                         5.0
                                5.0
              2021.0
         257
                         5.0
                                5.0
              2021.0
                         5.0
         258
                                5.0
               2021.0
                         5.0
         259
                                5.0
         260
                  {\tt 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 time On board duration \
               Booking ID
                           Support ID
         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
                                                                         {\tt NaN}
         3
                7043013.0
                              19304.0
                                        5/31/2021 19:24
                                                                         NaN
                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
                                        4/30/2021 23:15
                                                                      0 min
                             199570.0
                             199586.0
         258
                6935617.0
                                          5/1/2021 0:13
                                                                        NaN
                                          5/1/2021 0:11
         259
                6935611.0
                              199572.0
                                                                         NaN
         260
                      \mathtt{NaN}
                                   NaN
                                                     NaN
                                                                         \mathtt{NaN}
                 transaction_date P.O.B distance(km) Subtotal FF($)
                                                                         Promo amt($) \
              2021-05-31 23:07:00
                                                   0.00
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NaN

nan

260

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1
    2021-05-31 21:26:00
                                         17.35
                                                         76.33
                                                                           0.0
    2021-05-31 20:22:00
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                                          0.00
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3
    2021-05-31 19:39:00
                                          0.00
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    2021-05-31 17:30:00
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                                          0.00
                                           . . .
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                                                                           . . .
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
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259 2021-05-01 00:14:00
                                          0.00
                                                              0
                                                                           0.0
260
                     NaT
                                           NaN
                                                           NaN
                                                                           NaN
                      Meet driver($)
                                             Booking fee($)
                                                               Tip amt($)
     Airport fee($)
                                   0.0
                                                         0.0
                                                                     0.00
0
                 0.0
                                   0.0
1
                 0.0
                                        . . .
                                                         0.0
                                                                     3.82
2
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                 0.0
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4
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256
257
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258
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259
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                                   0.0
                                                         0.0
                                                                     0.00
260
                 NaN
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                                                         NaN
                                                                      NaN
     Total amt($) Actual received($)
                                                payment_status
0
                 0
                                           Canceled by timeout
                                      0
1
             82.15
                                 82.15
                                                  Personal card
2
                 0
                                      0
                                         Canceled by passenger
3
                 0
                                      0
                                           Canceled by timeout
4
                 0
                                         Canceled by passenger
. .
               . . .
                                    . . .
256
            102.07
                                102.07
                                                  Personal card
257
             94.61
                                 94.61
                                                  Personal card
                 0
                                      0
                                           Canceled by timeout
258
                 0
                                      0
                                         Canceled by passenger
259
260
               NaN
                                   NaN
                                                             nan
                     Pickup location lat/long
                                                      Actual destination lat/long
0
     -35.220532145327226, 149.07818982079132
                                                         -35.3441316, 149.0868669
      -35.34643558953422, 149.24807768315077
                                                         -35.4244069, 149.1148269
1
2
                     -35.3464312, 149.2481617
                                                         -35.4244069, 149.1148269
                     -35.2340673, 149.0597565
3
                                                          -35.2183665, 149.057927
4
                     -35.2432823, 149.0557621
                                                         -35.1557942, 149.1032343
      -35.330657958984375, 149.1832514255077
                                                  -35.39551489999999, 149.0882596
256
                                                          -35.3715363, 149.105409
257
      -35.233944858320335, 149.0598960913726
258
      -35.24969482421875, 149.13741630619074
                                                         -35.3286432, 149.1415546
259
      -35.10789628873587, 147.36243043094873
                                                         -35.0686344, 147.3753516
```

```
month
                 year
                               week
               2021.0
                         5.0
                                5.0
         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
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         256
              2021.0
                         5.0
                                5.0
                         5.0
         257
               2021.0
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         258
               2021.0
                                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 \
                7044732.0
                                         5/31/2021 22:52
         0
                              162324.0
                                                                         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
                                         4/30/2021 23:31
                                                                   26 min(s)
                6935481.0
                              199574.0
         257
                                         4/30/2021 23:15
                6935434.0
                              199570.0
                                                                       0 min
         258
                6935617.0
                              199586.0
                                           5/1/2021 0:13
                                                                         NaN
         260
                      NaN
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                                   NaN
                 transaction_date P.O.B distance(km) Subtotal FF($)
                                                                          Promo amt($) \
         0
              2021-05-31 23:07:00
                                                   0.00
                                                                       0
                                                                                    0.0
                                                  17.35
                                                                   76.33
         1
              2021-05-31 21:26:00
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         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
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                                                                     NaN
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0.0

. . .

... Booking fee(\$)

0.0

Tip amt(\$)

0.00

Meet driver(\$)

Airport fee(\$)

0.0

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1
                 0.0
                                  0.0
                                                         0.0
                                                                     3.82
                                        . . .
3
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                                                                     0.00
                                        . . .
6
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255
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256
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                                                         0.0
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257
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                                                                     0.00
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258
                                        . . .
260
                 NaN
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                                                                      NaN
     Total amt($) Actual received($)
                                              payment_status
                 0
                                         Canceled by timeout
0
                                      0
1
             82.15
                                 82.15
                                               Personal card
3
                                         Canceled by timeout
                 0
                                      0
6
                 0
                                      0
                                         Canceled by timeout
9
                 0
                                      0
                                         Canceled by timeout
. .
             21.18
                                 21.18
                                               Personal card
255
256
            102.07
                                102.07
                                               Personal card
                                               Personal card
257
             94.61
                                 94.61
                                      0
                                         Canceled by timeout
258
                 0
260
               NaN
                                   NaN
                                                          nan
                     Pickup location lat/long
                                                      Actual destination lat/long
0
     -35.220532145327226, 149.07818982079132
                                                         -35.3441316, 149.0868669
      -35.34643558953422, 149.24807768315077
                                                         -35.4244069, 149.1148269
1
3
                                                          -35.2183665, 149.057927
                     -35.2340673, 149.0597565
                                                  -35.43896780000001, 149.0954537
                       -35.275163, 149.1322018
6
9
                     -35.1698794, 149.0984796
                                                         -35.3125845, 149.1463969
. .
255
      -28.00275949695448, 153.42757060145323
                                                         -27.9679844, 153.3805562
      -35.330657958984375, 149.1832514255077
256
                                                  -35.39551489999999, 149.0882596
      -35.233944858320335, 149.0598960913726
257
                                                          -35.3715363, 149.105409
258
      -35.24969482421875, 149.13741630619074
                                                         -35.3286432, 149.1415546
260
                                            NaN
                                                                                NaN
             month
                     week
       year
0
     2021.0
                5.0
                       5.0
     2021.0
                5.0
1
                       5.0
3
     2021.0
                5.0
                      5.0
6
     2021.0
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                       5.0
        . . .
                . . .
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    2021.0
255
                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	t ID	Book	ing t	ime On	board du	ration	\		
:	1	7043483.0	21756	38.0	5/31/20	21 20	:23	22	min(s)			
:	17	7019531.0	20956	33.0	5/28/20	21 15	:42	13	min(s)			
	18	7026443.0			5/29/20				min(s)			
:	19	7019883.0	20974	45.0	5/28/20	21 18	:17		min(s)			
	20	7027851.0			5/29/20				min(s)			
	253	6935704.0	1973	70.0	5/1/2	021 0	:44	3	min(s)			
2	255	6935556.0	18778	30.0	4/30/20	21 23	:56	17	min(s)			
:	256	6935481.0	1995	74.0	4/30/20			26	min(s)			
:	257	6935434.0	1995	70.0	4/30/20	21 23	:15		0 min			
:	260	NaN		NaN			NaN		NaN			
		transact	ion_date	P.0	).B dista	nce(k	m) Sub	total FF(	\$) Pro	mo 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	5.0	
:	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	5.0	
•	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	5.0	
•	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			N	aN	N	aN	1	NaN	
		Airport fe		et dr			Booki	-	_		\	
	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		
2	255		0.0		0.0			0.0		0.00		
2	256		0.0		0.0			0.0		0.00		
2	257		0.0		0.0			0.0		0.00		
2	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
                     73.86
                                         73.86 Personal card
         20
                                            . . .
                      26.95
                                         26.95 Personal card
         253
         255
                     21.18
                                         21.18
                                                Personal card
         256
                    102.07
                                        102.07 Personal card
                     94.61
                                         94.61 Personal card
         257
         260
                       NaN
                                           NaN
                                                           nan
                              Pickup location lat/long
                                                             Actual destination lat/long
               -35.34643558953422, 149.24807768315077
                                                                -35.4244069, 149.1148269
         1
                              -28.1368301, 153.3998969
                                                                -28.0860352, 153.3935154
         17
                              -27.9397766, 153.3676497
                                                                -28.1422594, 153.4626538
         18
         19
                              -35.3420801, 149.0868309
                                                                -35.1979926, 149.0364016
         20
              -35.277562862846075, 149.13189359523795
                                                                -35.3624863, 149.2313994
         . .
                              -35.2791318, 149.1267691
                                                         -35.28051689999999, 149.1308614
         253
                                                                -27.9679844, 153.3805562
         255
               -28.00275949695448, 153.42757060145323
                                                         -35.39551489999999, 149.0882596
         256
               -35.330657958984375, 149.1832514255077
               -35.233944858320335, 149.0598960913726
                                                                 -35.3715363, 149.105409
         257
         260
                                                    NaN
                                                                                      NaN
                year month week
              2021.0
                         5.0
         1
                               5.0
                         5.0
              2021.0
                               5.0
         17
                         5.0
         18
              2021.0
                               5.0
              2021.0
                         5.0
                               5.0
         19
         20
              2021.0
                         5.0
                               5.0
                 . . .
                         . . .
                               . . .
         . .
         253
              2021.0
                         5.0
                               5.0
         255
              2021.0
                         5.0
                               5.0
              2021.0
                         5.0
                               5.0
         256
                         5.0
         257
              2021.0
                               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)
                                                                13 min(s)
         17
               7019531.0
                             209563.0 5/28/2021 15:42
                             212398.0 5/29/2021 17:27
                                                                37 min(s)
         18
               7026443.0
                             209745.0 5/28/2021 18:17
                                                                27 min(s)
         19
               7019883.0
```

```
20
      7027851.0
                    213749.0 5/29/2021 22:14
                                                        27 min(s)
                                                               . . .
            . . .
                         . . .
                                5/1/2021 0:44
                                                         3 min(s)
253
      6935704.0
                    197370.0
255
      6935556.0
                    187780.0
                             4/30/2021 23:56
                                                        17 min(s)
                              4/30/2021 23:31
                                                        26 min(s)
256
      6935481.0
                    199574.0
257
      6935434.0
                    199570.0 4/30/2021 23:15
                                                             0 min
260
            NaN
                         NaN
                                                               NaN
       transaction date P.O.B distance(km) Subtotal FF($) Promo amt($)
    2021-05-31 21:26:00
                                                        76.33
1
                                        17.35
                                                                          0.0
    2021-05-30 01:38:00
                                        10.47
                                                        41.87
                                                                         15.0
17
    2021-05-30 01:08:00
                                                       106.98
18
                                        33.41
                                                                         0.0
    2021-05-29 23:41:00
19
                                        23.95
                                                        103.51
                                                                         15.0
    2021-05-29 23:17:00
                                                        71.86
20
                                        18.63
                                                                          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
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                                                                    0.00
19
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20
                 . . .
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                                                        . . .
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253
                 0.0
                                  0.0
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255
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                                                                    0.00
256
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257
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                                                        0.0
                                                                    0.00
260
                 NaN
                                  {\tt NaN}
                                                        NaN
                                                                     NaN
                                       . . .
     Total amt($) Actual received($) payment status
            82.15
                                82.15 Personal card
1
            28.87
                                28.87 Personal card
17
18
           108.98
                                108.98 Personal card
19
            90.51
                                90.51 Personal card
                                 73.86 Personal card
20
            73.86
. .
              . . .
                                   . . .
            26.95
                                 26.95 Personal card
253
255
            21.18
                                 21.18
                                        Personal card
           102.07
                                        Personal card
256
                                102.07
257
            94.61
                                 94.61 Personal card
260
              NaN
                                   NaN
                                                   nan
```

```
-28.1368301, 153.3998969
                                                                -28.0860352, 153.3935154
         17
                              -27.9397766, 153.3676497
         18
                                                                -28.1422594, 153.4626538
         19
                              -35.3420801, 149.0868309
                                                                -35.1979926, 149.0364016
              -35.277562862846075, 149.13189359523795
                                                                -35.3624863, 149.2313994
         20
         . .
         253
                              -35.2791318, 149.1267691
                                                         -35.28051689999999, 149.1308614
                                                                -27.9679844, 153.3805562
         255
               -28.00275949695448, 153.42757060145323
               -35.330657958984375, 149.1832514255077
                                                         -35.39551489999999, 149.0882596
         256
               -35.233944858320335, 149.0598960913726
         257
                                                                 -35.3715363, 149.105409
         260
                                                    NaN
                                                                                      NaN
                year
                      month week
                         5.0
         1
              2021.0
                               5.0
                         5.0
         17
              2021.0
                               5.0
              2021.0
                         5.0
         18
                               5.0
         19
              2021.0
                         5.0
                               5.0
              2021.0
                         5.0
                               5.0
         20
                         . . .
                               . . .
         253
             2021.0
                         5.0
                               5.0
         255
              2021.0
                         5.0
                               5.0
                         5.0
         256
              2021.0
                               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)
                             213749.0 5/29/2021 22:14
                                                                27 min(s)
         20
               7027851.0
         . .
                                         5/1/2021 0:32
                                                                18 min(s)
         252
               6935666.0
                             56277.0
         253
               6935704.0
                             197370.0
                                         5/1/2021 0:44
                                                                 3 \min(s)
                             187780.0
                                       4/30/2021 23:56
                                                                17 min(s)
         255
               6935556.0
         256
                                       4/30/2021 23:31
                                                                26 min(s)
               6935481.0
                             199574.0
         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
             2021-05-30 01:38:00
                                                 10.47
                                                                41.87
                                                                                15.0
```

-35.34643558953422, 149.24807768315077

-35.4244069, 149.1148269

```
2021-05-30 01:08:00
                                        33.41
                                                       106.98
                                                                         0.0
18
    2021-05-29 23:41:00
                                        23.95
19
                                                       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
                                                        24.95
                                         1.04
                                                                         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($)
                                                             Tip amt($)
                                       . . .
                                  0.0
1
                 0.0
                                                        0.0
                                                                    3.82
                 0.0
                                  0.0
                                                                    0.00
17
                                                        0.0
                                  0.0
18
                 0.0
                                                        0.0
                                                                    0.00
19
                 0.0
                                  0.0
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                                                                    0.00
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20
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                                                                     . . .
252
                 0.0
                                  0.0
                                                        0.0
                                                                    0.00
                                       . . .
                 0.0
                                  0.0
                                                        0.0
253
                                                                    0.00
255
                 0.0
                                  0.0
                                                        0.0
                                                                    0.00
256
                 0.0
                                  0.0
                                                        0.0
                                                                    0.00
                                  0.0
257
                 0.0
                                                        0.0
                                                                    0.00
     Total amt($) Actual received($) payment_status
1
            82.15
                                82.15 Personal card
17
                                       Personal card
            28.87
                                28.87
                               108.98 Personal card
           108.98
18
19
            90.51
                                 90.51 Personal card
            73.86
                                 73.86 Personal card
20
                                  . . .
              . . .
            62.55
                                 62.55
                                       Personal card
252
253
            26.95
                                26.95 Personal card
255
            21.18
                                 21.18 Personal card
           102.07
                                102.07 Personal card
256
                                 94.61 Personal card
257
            94.61
                     Pickup location lat/long
                                                     Actual destination lat/long
1
      -35.34643558953422, 149.24807768315077
                                                        -35.4244069, 149.1148269
                                                        -28.0860352, 153.3935154
17
                     -28.1368301, 153.3998969
                     -27.9397766, 153.3676497
                                                        -28.1422594, 153.4626538
18
19
                     -35.3420801, 149.0868309
                                                        -35.1979926, 149.0364016
     -35.277562862846075, 149.13189359523795
                                                        -35.3624863, 149.2313994
20
. .
                     -35.3255914, 149.0774735
                                                        -35.3479369, 149.2265961
252
                     -35.2791318, 149.1267691
                                                -35.28051689999999, 149.1308614
253
255
      -28.00275949695448, 153.42757060145323
                                                        -27.9679844, 153.3805562
256
      -35.330657958984375, 149.1832514255077
                                                -35.39551489999999, 149.0882596
```

-35.3715363, 149.105409

-35.233944858320335, 149.0598960913726

```
year month week
         1
             2021.0
                       5.0
                             5.0
         17
             2021.0
                       5.0
                             5.0
             2021.0
                       5.0
         18
                             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,
       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, kwd
       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, **k
                       self.options["has_index_names"] = kwds["has_index_names"]
       934
        935
                   self._make_engine(self.engine)
    --> 936
       937
```

```
/usr/lib/python3.7/site-packages/pandas/io/parsers.py in _make_engine(self, engine)
                def make engine(self, engine="c"):
       1166
       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)
                    kwds["usecols"] = self.usecols
       1996
       1997
   -> 1998
                    self._reader = parsers.TextReader(src, **kwds)
                    self.unnamed_cols = self._reader.unnamed_cols
       1999
       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 time On board duration \
             Booking ID Support ID
                                                                   NaN
                           162324.0 5/31/2021 22:52
         0
             7044732.0
             7043483.0
                           217568.0 5/31/2021 20:23
                                                             22 min(s)
         1
         2
                        217568.0 5/31/2021 20:10
             7043390.0
                                                                   NaN
              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
             7000869.0
                                      5/23/2021 1:45
         78
                           205512.0
                                                                   NaN
         79
              7000790.0
                           205504.0
                                      5/23/2021 1:18
                                                                   NaN
               transaction_date P.O.B distance(km) Subtotal FF($) Promo amt($) \
```

938

def close(self):

```
2021-05-31 23:07:00
                                        0.00
                                                            0
                                                                         0.0
                                                        76.33
   2021-05-31 21:26:00
                                       17.35
                                                                         0.0
   2021-05-31 20:22:00
                                        0.00
                                                            0
                                                                         0.0
   2021-05-31 19:39:00
                                                            0
                                                                         0.0
                                        0.00
   2021-05-31 17:30:00
                                                            0
                                        0.00
                                                                         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
                                        0.00
                                                                         0.0
78 2021-05-23 01:55:00
                                                            0
                                        0.00
                                                                         0.0
79 2021-05-23 01:33:00
                                                            0
                                                                         0.0
                                        0.00
    Airport fee($)
                     Meet driver($)
                                            Booking fee($)
                                                            Tip amt($)
                0.0
                                 0.0
                                                        0.0
                                                                   0.00
0
                0.0
                                 0.0
1
                                                        0.0
                                                                   3.82
2
                0.0
                                 0.0
                                                       0.0
                                                                   0.00
3
                0.0
                                 0.0
                                                        0.0
                                                                   0.00
4
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                0.0
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75
                0.0
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                                                        0.0
                                                                   0.00
76
                0.0
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                                                                   0.00
77
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                                                                   0.00
78
                0.0
                                 0.0
                                                        0.0
                                                                   0.00
79
                                                                   0.00
                0.0
                                 0.0
                                                        0.0
    Total amt($) Actual received($)
                                                      Paid by
0
                0
                                         Canceled by timeout
           82.15
1
                                82.15
                                                Personal card
2
                                        Canceled by passenger
                0
                                    0
3
                0
                                    0
                                         Canceled by timeout
4
                0
                                    0
                                       Canceled by passenger
75
                0
                                    0
                                         Canceled by timeout
76
                0
                                       Canceled by passenger
                                    0
                0
                                        Canceled by passenger
77
                                    0
                                        Canceled by passenger
78
                0
                0
                                    0
                                          Canceled by timeout
79
                    Pickup location lat/long Actual destination lat/long
    -35.220532145327226, 149.07818982079132
                                                  -35.3441316, 149.0868669
0
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
. .
                                                  -35.3342012, 149.1104318
75
     -35.28249498205287, 149.12441410124302
                    -35.3434458, 149.0565981
76
                                                  -35.1995653, 149.0146309
77
                    -35.3434355, 149.0558749
                                                  -35.1995653, 149.0146309
```

78 79			-	149.0558686 149.0278074	-35.1995653, -35.2535123,	
	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			