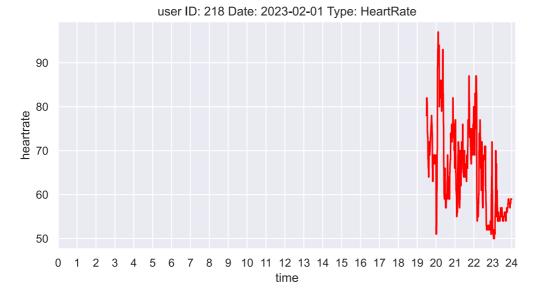
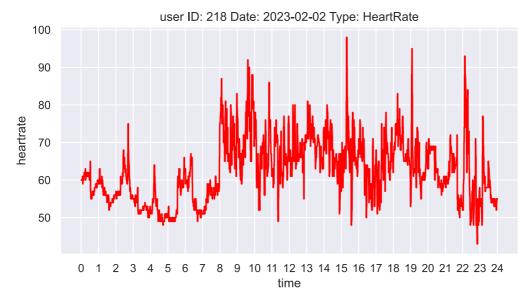
```
In [1]: import pandas as pd
        import matplotlib.pyplot as plt
        from astropy.stats.circstats import circmean
         from functools import reduce
         import datetime
         import pickle
         import time
         import plotly.express as px
         import numpy as np
        import sqlite3
        pd.set_option("display.precision", 2)
plt.rcParams.update({'font.size': 20, 'figure.figsize': (8, 4)})
         %matplotlib inline
        import matplotlib inline
        matplotlib_inline.backend_inline.set_matplotlib_formats('svg')
         import seaborn as sns
         sns.set()
         import warnings
        warnings.filterwarnings('ignore')
In [2]: connector = sqlite3.connect("../Extras/graphs data.db")
```

Heart Rate graphs printer

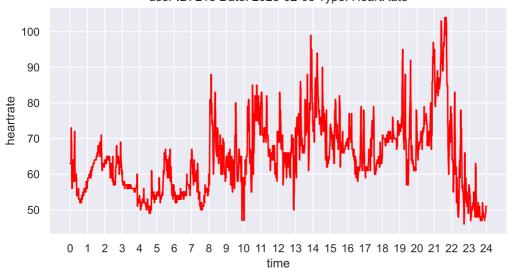
cursor = connector.cursor()

```
cursor.execute("SELECT * FROM heartrate graphs data WHERE id=218")
In [11]:
         rows = cursor.fetchall()
         for row in rows:
                 #getting heartrate samples from dataframe
                 heartrate_samples_dict = pickle.loads(row[3])
                 heartrate dict keys = list(heartrate samples dict.keys())
                 heartrate_dict_values = list(heartrate_samples_dict.values())
                 heartrate_samples_df = pd.DataFrame({'time':heartrate_dict_keys, 'heartrate':heartrate_dict_values})
                 #preparing plot title name
                 plot_title_name = 'user ID: '+str(row[0])+' Date: '+str(row[1])+' Type: '+str(row[2])
                 #creating lineplot
                 sns.lineplot(x='time', y='heartrate', data=heartrate_samples_df, color='red')
                 plt.title(plot_title_name)
                 # configurating axis "x" bins
                 plt.xticks(np.arange(0, 25, step=1))
                 plt.show()
```

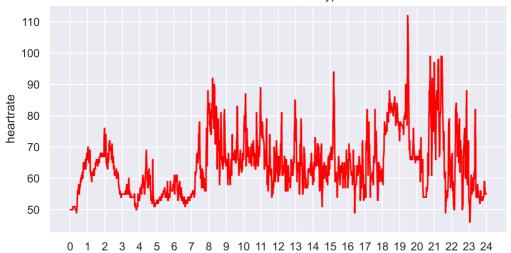




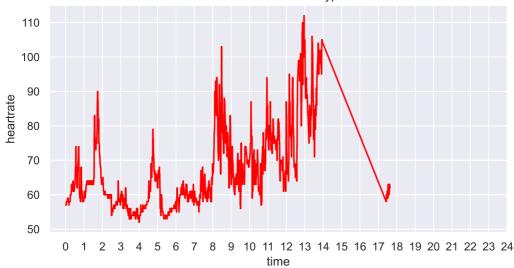
user ID: 218 Date: 2023-02-03 Type: HeartRate



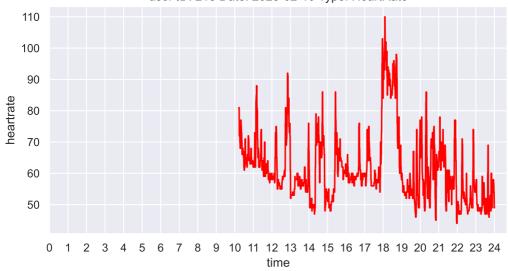
user ID: 218 Date: 2023-02-04 Type: HeartRate

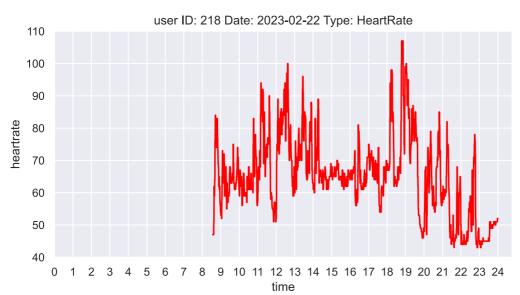


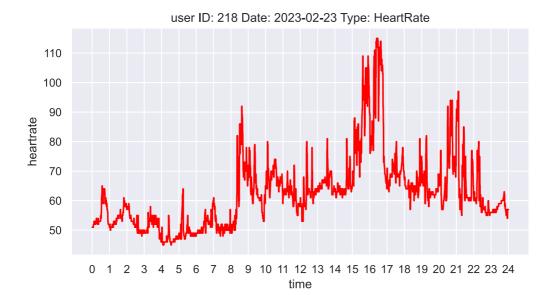
user ID: 218 Date: 2023-02-05 Type: HeartRate



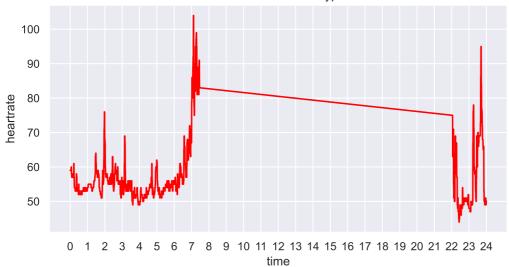
user ID: 218 Date: 2023-02-10 Type: HeartRate



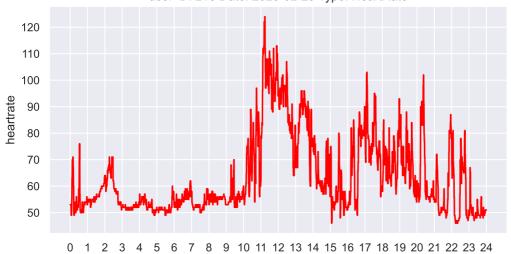


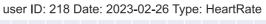


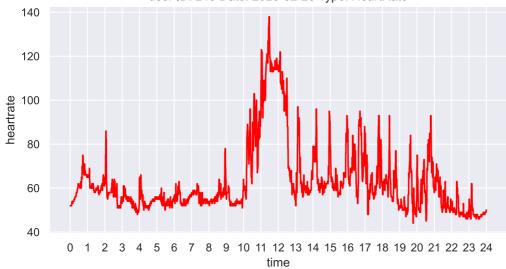
user ID: 218 Date: 2023-02-24 Type: HeartRate



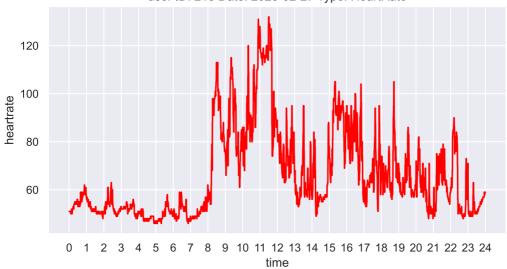
user ID: 218 Date: 2023-02-25 Type: HeartRate

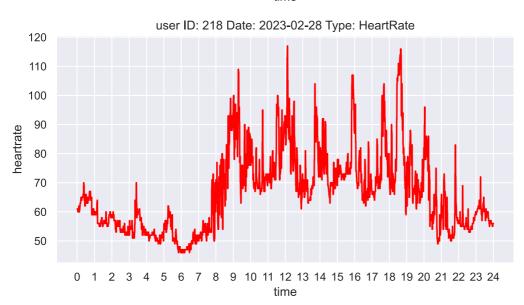


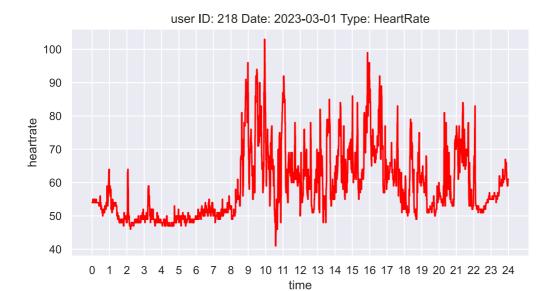




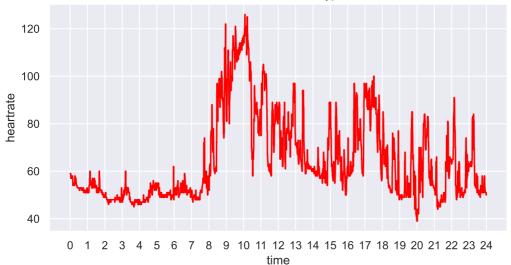
user ID: 218 Date: 2023-02-27 Type: HeartRate



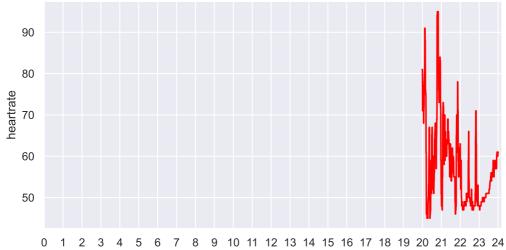






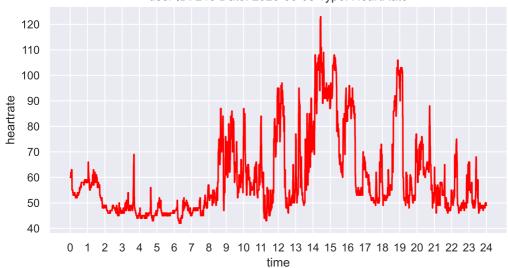


user ID: 218 Date: 2023-03-07 Type: HeartRate

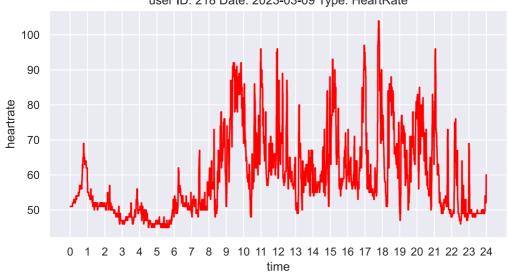


11 12 13 14 15 16 17 18 19 20 21 22 23 24 time

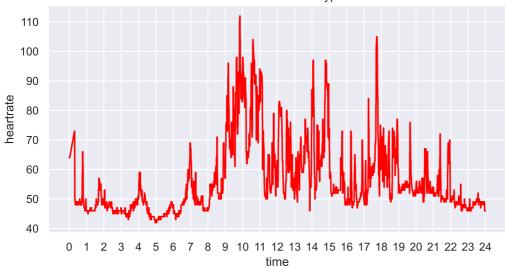
user ID: 218 Date: 2023-03-08 Type: HeartRate

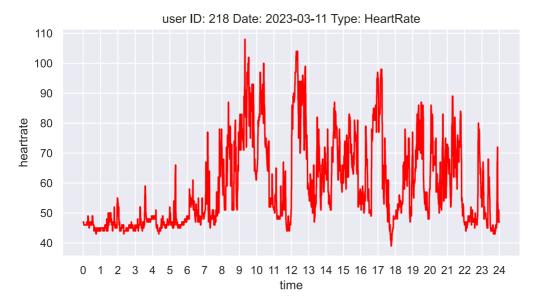


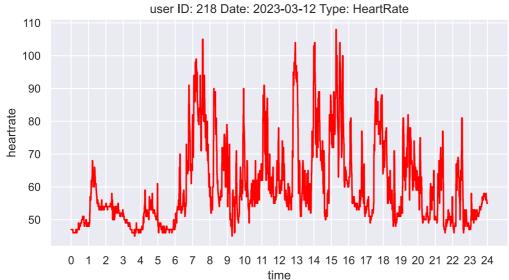
user ID: 218 Date: 2023-03-09 Type: HeartRate

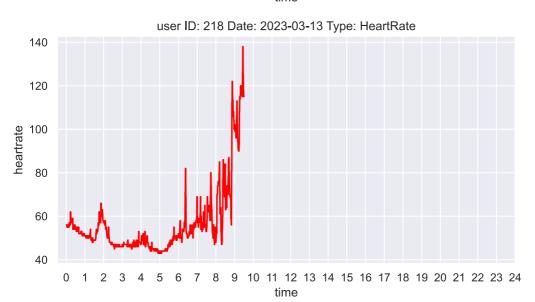


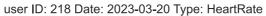
user ID: 218 Date: 2023-03-10 Type: HeartRate

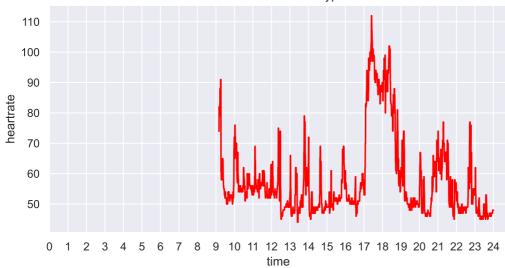


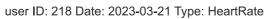


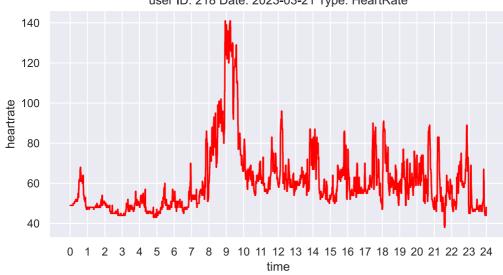












In []:

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