

# EventDrivenTimeAnalysis

October 27, 2023

```
[10]: from main import main
import pandas as pd
import plotly.express as px
```

```
[2]: result = pd.DataFrame()
dfs = []
keys = []
time = 30 * 60
for i in range (time + 1, time * 50 + 1, time):
    df = main(i)
    dfs.append(df)
    keys.append(str(i) + " seconds")
result = pd.concat(dfs, axis=1, keys=keys)
```

```
[3]: slice_data = result.loc['End of simulation']
fig = px.line(x=result.columns.get_level_values(0).unique(), y=slice_data,
             title="sample figure")
fig.show()
```

```
[4]: slice_data = result.loc['Average shopping duration']
fig = px.line(x=result.columns.get_level_values(0).unique(), y=slice_data,
             title="sample figure")
fig.show()
```

```
[5]: slice_data = result.loc['Average shopping duration (complete)']
fig = px.line(x=result.columns.get_level_values(0).unique(), y=slice_data,
             title="sample figure")
fig.show()
```

```
[6]: slice_data = result.loc['Drop percentage at Baker']
fig = px.line(x=result.columns.get_level_values(0).unique(), y=slice_data,
             title="sample figure")
fig.show()
```

```
[7]: slice_data = result.loc['Drop percentage at Butcher']
fig = px.line(x=result.columns.get_level_values(0).unique(), y=slice_data,
             title="sample figure")
```

```
fig.show()
```

```
[8]: slice_data = result.loc['Drop percentage at Cheese']  
fig = px.line(x=result.columns.get_level_values(0).unique(), y=slice_data,  
             ↪title="sample figure")  
fig.show()
```

```
[9]: slice_data = result.loc['Drop percentage at Cashier']  
fig = px.line(x=result.columns.get_level_values(0).unique(), y=slice_data,  
             ↪title="sample figure")  
fig.show()
```