Turing College: DA

Mod. 1 / Sprint 1 / Proj 1

Deniz Ülke

RQ:

From personal health data,

which hourly interval

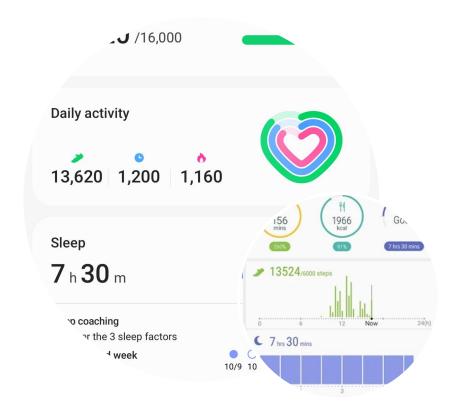
was the most active

during a 5-day period?

Step #0

Exported my own

Samsung Health data



alth.	com.samsung.health.	com.samsung.health.	com.samsu
unt	step count.speed	step_count.distance	step cour
	1.3396497	24.57	1.339
	1.0833334	8.76	0.
	1.3888888	9.29	0.
	1.0000001	4.46	0.2
	1.3611112	42.06	2.2
	1 2411112	1 6 50	0 (
Step #1 Data was messy,		> Removed unnecessary fields	
		> Changed data types i.e.	

Proceeded with cleaning

from 'General' to 'Number', 'Date' etc.

> Reduced decimal places

	<u>Speed</u>	<u>Distance</u>	<u>Calorie</u>
<u>stepCount</u>	<u>(km/h)</u> 🔻	<u>(km)</u> 🔻	<u>(kcal)</u> 🔻
32	1.3	24.6	1.3
12	1.1	8.8	0.5
12	1.4	9.3	0.5
6	1.0	4.5	0.3
asurement	▼	Value	▼ Metric
al steps taken		3240	4 steps
al distance trav	eled	24032.9	2 km
al calories burn	ed	1347.2	5 kcal
ax. Steps		12	0 steps
g. Steps		54.2	8 steps
ax. Speed		3.2	9 km/h
g. Speed		1.2	3 km/h
ax. Distance		94.7	6 km
g. Distance		40.2	6 km
ax. Calorie		6.2	7 kcal
g. Calorie		2.2	6 kcal

Step #2

Following variables remained:

Picked random 5 day interval from entire dataset

> Computed max, avg. & total values

Step_count

- Speed
- Distance
- Calorie

> Next step is to summarize

7918	5901	322
1958	1485	83
4660	3426	195

> Summarized data with daily & hourly Pivot Tables.

<u>stepCount</u>

9098

8770

32404

Step #3

Sum of Distance Sum of Calorie

6721

6500

24033

83 195

1347

383

364

1.14 1.23 1.23 1.20 1.27

1.14

1.30

1.21

1.28

1.23

1.21

1.39

1.00

1.22

1.27

1.13

1.37

1.09

1.17

2557

eed (km/h) Sum of stepCount Sum of Distance

44

12

1022

1857

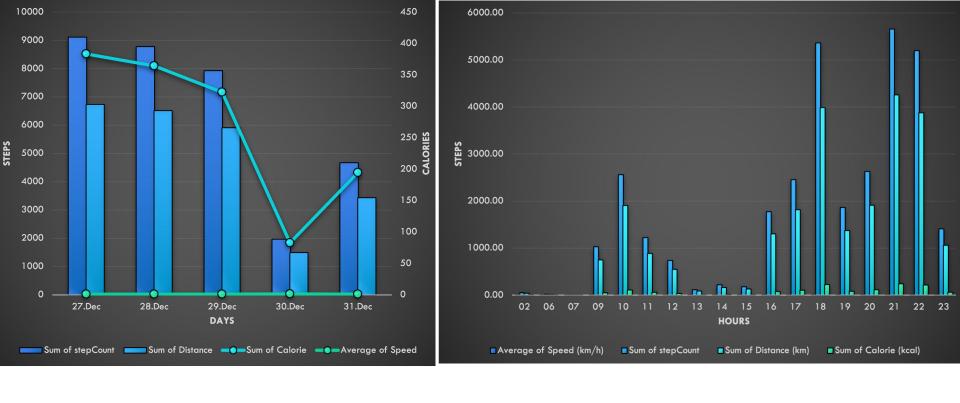
2623

5655

5194

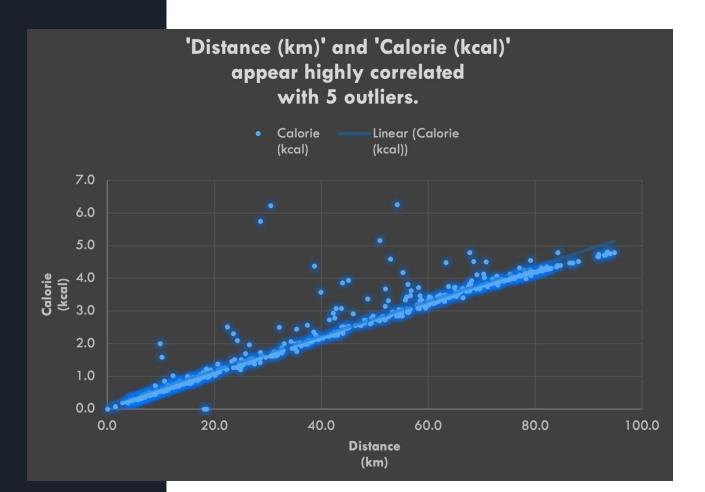
1405

32404



Step #4.1 | Visualisations

Step #4.2 | Visualisations



Step #5 | Conclusion

- December 27th was the most active day in terms of Step Count
- Based on aggregation, 21.00 was the most active hour in terms of Step Count & Distance
- As per intuitive deduction, Calorie and Distance are highly correlated
- The same as above is also true for Calorie & Speed (not visualized)