



Bellabeat Fitness Tracker Analysis

What is Bellabeat?

Bellabeat started in 2014 with a fitness tracker designed specifically for people with female chromosomes. Bellabeat's trackers focus on women's health issues and can help with menstruation cycle tracking. Bellabeat's trackers may help wearers make informed choices by collecting data on contraceptive intake, stress levels, deep sleep, and overall activity.

Project Overview:

The given bellabeat dataset comprises of 3 csv files which provides information related to sleep, daily activity and weight of various customers. Using these information, try to solve the given problem statements.

Problem Statements:

1. Identify the day of the week when the customers are most active and least active. Active is determined based on the no of steps.
2. Identify the customer who has the most effective sleep. Effective sleep is determined based on is customer spent most of the time in bed sleeping.

3. Identify customers with no sleep record.
4. Fetch all customers whose daily activity, sleep and weight logs are all present.
5. For each customer, display the total hours they slept for each day of the week. Your output should contains 8 columns, first column is the customer id and the next 7 columns are the day of the week (like monday, tuesday etc)
6. For each customer, display the following:
customer_id
date when they had the highest_weight(also mention weight in kg)
date when they had the highest_weight(also mention weight in kg)
7. Fetch the day when customers sleep the most.
8. For each day of the week, determine the percentage of time customers spend lying on bed without sleeping.
9. Identify the most repeated day of week. Repeated day of week is when a day has been mentioned the most in entire database.
10. Based on the given data, identify the average kms a customer walks based on 6000 steps.