SQL Queries

Software used: BigQuery

# count the number of distinct members that participated in the analysis for daily activity

SELECT COUNT(DISTINCT Id) AS Members

FROM `decisive-post-398721.Fitbit\_Data.daily\_activity`;

# count the number of distinct members that participated in the analysis for daily steps

SELECT COUNT(DISTINCT Id) AS MembersStep

FROM `decisive-post-398721.Fitbit\_Data.Daily\_Steps`;

# count the number of distinct members that participated in the analysis for Sleep Day

SELECT COUNT(DISTINCT Id) AS MemberSleep

FROM `decisive-post-398721.Fitbit\_Data.sleep\_day`;

# count the number of distinct members that participated in the analysis for Heart Rate

SELECT COUNT(DISTINCT Id) AS MemberHeartRate

FROM `decisive-post-398721.Fitbit\_Data.heartrate\_seconds`;

#Check for null values -> Daily Activity

SELECT \*

FROM `decisive-post-398721.Fitbit\_Data.daily\_activity`

WHERE Id IS NULL OR

ActivityDate IS NULL OR

TotalSteps IS NULL OR

TotalDistance IS NULL OR

TrackerDistance IS NULL OR

LoggedActivitiesDistance IS NULL OR

VeryActiveDistance IS NULL OR

LightActiveDistance IS NULL OR

SedentaryActiveDistance IS NULL OR

VeryActiveMinutes IS NULL OR

FairlyActiveMinutes IS NULL OR

LightlyActiveMinutes IS NULL OR

SedentaryMinutes IS NULL OR

Calories IS NULL;

#Check for null values -> Daily Steps

SELECT \*

FROM `decisive-post-398721.Fitbit\_Data.Daily\_Steps`

WHERE Id IS NULL OR

ActivityDay IS NULL OR

StepTotal IS NULL;

#Check for null values -> Sleep Day

SELECT \*

FROM `decisive-post-398721.Fitbit\_Data.sleep\_day`

WHERE Id IS NULL OR

SleepDay IS NULL OR

TotalSleepRecords IS NULL OR

TotalMinutesAsleep IS NULL OR

TotalTimeInBed IS NULL;

#Check for null values -> Heart Rate

SELECT \*

FROM `decisive-post-398721.Fitbit\_Data.heartrate\_seconds`

WHERE Id IS NULL OR

Value IS NULL OR

Date IS NULL;

#See the correlation betwen activity level and steps count

SELECT

da.Id,

AVG(ds.StepTotal) AS Average\_StepCount,

SUM(da.VeryActiveMinutes) AS VeryActiveSum,

SUM(da.FairlyActiveMinutes) AS FairlyActiveSum,

SUM(da.LightlyActiveMinutes) AS LightlyActiveSum,

SUM(da.SedentaryMinutes) AS SedentarySum

FROM

`decisive-post-398721.Fitbit\_Data.daily\_activity`AS da

JOIN

`decisive-post-398721.Fitbit\_Data.Daily\_Steps` AS ds

ON

da.Id = ds.Id

GROUP BY

da.Id

ORDER BY Average\_StepCount;

# Burned calories vs. Sleep

SELECT

daily\_activity.id,

sleep.sleepday,

ROUND(AVG(sleep.TotalMinutesAsleep), 0) AS AvgTotalMinutesAsleep,

ROUND(AVG(daily\_activity.calories), 0) AS AvgCalories

FROM

`decisive-post-398721.Fitbit\_Data.daily\_activity` AS daily\_activity

JOIN

`decisive-post-398721.Fitbit\_Data.sleep\_day` AS sleep

ON

daily\_activity.id=sleep.Id

GROUP BY

daily\_activity.id,

sleep.sleepday;