SQL Code for Bellabeat Capstone

```sql
--Which feature is being most used by users; the distance tracker, sleep or weight?
--Here, I joined the tables for  “daily_activity”, “sleep_day”, and “weightLog_info”
to get a total count of unique Ids for each table:
SELECT
Count(Distinct(Activity.Id)) AS TotalActivityId,
Count(Distinct(Sleep.Id)) AS TotalSleepId,
Count(Distinct(Weight.Id)) AS TotalWeightId
FROM `naomis-first-sandbox-project.fitabase_data.daily_activity` AS Activity
Full Outer JOIN
`naomis-first-sandbox-project.fitabase_data.sleep_day` AS Sleep
ON
Activity.Id = Sleep.Id
Full Outer JOIN
`naomis-first-sandbox-project.fitabase_data.weightLog_info` AS Weight
ON
Activity.Id = Weight.Id

--To see how many users are using all 3 of the features, I ran the same query, but
used inner joins instead:
SELECT
Count(Distinct(Activity.Id)) AS TotalActivityId,
Count(Distinct(Sleep.Id)) AS TotalSleepId,
Count(Distinct(Weight.Id)) AS TotalWeightId
FROM `naomis-first-sandbox-project.fitabase_data.daily_activity` AS Activity
JOIN
`naomis-first-sandbox-project.fitabase_data.sleep_day` AS Sleep
ON
Activity.Id = Sleep.Id
JOIN
`naomis-first-sandbox-project.fitabase_data.weightLog_info` AS Weight
ON
Activity.Id = Weight.Id

--Next, I wanted to see how much total distance was spent in each intensity category.
SELECT
SUM(VeryActiveDistance) AS Very,
SUM(ModeratelyActiveDistance) AS Moderate,
SUM(LightActiveDistance) AS Light,
```

```
SUM(SedentaryActiveDistance) AS Sedentary
FROM `naomis-first-sandbox-project.fitabase_data.daily_activity`

--…and how many hours were spent in each category.
SELECT
SUM(VeryActiveMinutes)/60 AS Very,
SUM(FairlyActiveMinutes)/60 AS Fairly,
SUM(LightlyActiveMinutes)/60 AS Lightly,
SUM(SedentaryMinutes)/60 AS Sedentary
FROM `naomis-first-sandbox-project.fitabase_data.daily_activity`

--Then, I wanted to figure out the total and average distance per user.
SELECT
Id,
SUM(TotalDistance) AS TotalDistance,
AVG(TotalDistance) AS AverageDistance
FROM `naomis-first-sandbox-project.fitabase_data.daily_activity`
GROUP BY(Id)
ORDER BY (Id) DESC

--I also wanted to find out what the average distance for all users was, as well as
the maximum and minimum.
SELECT
AVG(TotalDistance) AS AverageDistance,
MIN(TotalDistance) AS ShortestDistance,
MAX(TotalDistance) AS LongestDistance
FROM `naomis-first-sandbox-project.fitabase_data.daily_activity`

--How many days did each user use their watch?
SELECT
Id,
Count(ActivityDate) AS DaysUsed
FROM `naomis-first-sandbox-project.fitabase_data.daily_activity`
Group BY Id
ORDER BY (DaysUsed) DESC

--What time of day are users the most active?
--Here we find user activity by hour:
SELECT
FORMAT_DATETIME('%T', ActivityHour) AS Time,
Sum(Calories) AS Sum_Calories,
```

```
Sum(StepTotal) AS Sum_StepTotal
FROM `naomis-first-sandbox-project.fitabase_data.hourly_all`
Group By Time
ORDER BY Time

--Which day of the week are users most active?
SELECT
FORMAT_DATE('%A', ActivityDate) AS Days,
Sum(TotalDistance) AS TotalDistance
FROM `naomis-first-sandbox-project.fitabase_data.daily_activity`
GROUP BY Days
ORDER BY Days

--How many users used the logged distance function?
SELECT
Count(Distinct(Id)) AS NumberOfLoggedActivities
FROM `naomis-first-sandbox-project.fitabase_data.daily_activity`
WHERE LoggedActivitiesDistance > 0

--…and how much distance did each of those users record with that feature?
SELECT
Id,
Sum(LoggedActivitiesDistance) AS LoggedActivities
FROM `naomis-first-sandbox-project.fitabase_data.daily_activity`
Group BY Id
ORDER BY (LoggedActivities) DESC

--What is the average hours of sleep for all users and the maximum and minimum?
SELECT
AVG(TotalMinutesAsleep/60) AS Average,
MIN(TotalMinutesAsleep/60) AS Least,
MAX(TotalMinutesAsleep/60) AS Most
FROM `naomis-first-sandbox-project.fitabase_data.sleep_day`
```