```
-- Dataset: Sleep Health and Lifestyle
-- Source: Kaggle
-- Queried using: BigQuery
-- Compare the sleep patterns and health metrics of individuals in different BMI categories
       SELECT
           bmi_category,
           AVG(sleep_duration) AS avg_sleep_duration,
           AVG(quality_of_sleep) AS avg_sleep_quality,
           AVG(blood_pressure) AS avg_blood_pressure,
           AVG(heart_rate) AS avg_heart_rate,
           AVG(daily_steps) AS avg_daily_steps
       FROM
           `swift-temple-392018.Sleep_health_lifestyle.Cleaned_data`
       GROUP BY
           bmi_category
       ORDER BY
           bmi_category;
-- Are there any trends in sleep duration or quality over different age groups?
       SELECT
           Age,
           AVG(sleep_duration) AS avg_sleep_duration,
           (AVG(quality_of_sleep) / 10) * 100 AS avg_sleep_quality_percentage
       FROM
           (
               SELECT
                   CASE
                       WHEN age BETWEEN 27 AND 34 THEN '27-34'
                       WHEN age BETWEEN 35 AND 44 THEN '35-44'
                       WHEN age BETWEEN 45 AND 54 THEN '45-54'
                       WHEN age BETWEEN 55 AND 59 THEN '55-59'
                       ELSE '60+'
                   END AS Age,
                   sleep_duration,
                   quality_of_sleep
               FROM
                   `swift-temple-392018.Sleep_health_lifestyle.Cleaned_data`
           ) AS age_grouped_data
       GROUP BY
           Age
```

ORDER BY

-- Are there any relationships between sleep disorders and other variables like age, gender, or stress level?

```
SELECT
    sleep_disorder,
    COUNT(*) AS count_of_occurrences,
    AVG(age) AS avg_age,
    gender,
    AVG(stress_level) AS avg_stress_level
FROM
    `swift-temple-392018.Sleep_health_lifestyle.Cleaned_data`
GROUP BY
    sleep_disorder, gender
ORDER BY
    sleep_disorder, gender;
```

-- Does stress level correlate with health metrics?

```
CORR(stress_level, blood_pressure)*100 AS

correlation_stress_blood_pressure,

    CORR(stress_level, heart_rate)*100 AS correlation_stress_heart_rate,

    CORR(stress_level, daily_steps)*100 AS correlation_stress_daily_steps

FROM

`swift-temple-392018.Sleep_health_lifestyle.Cleaned_data`
```