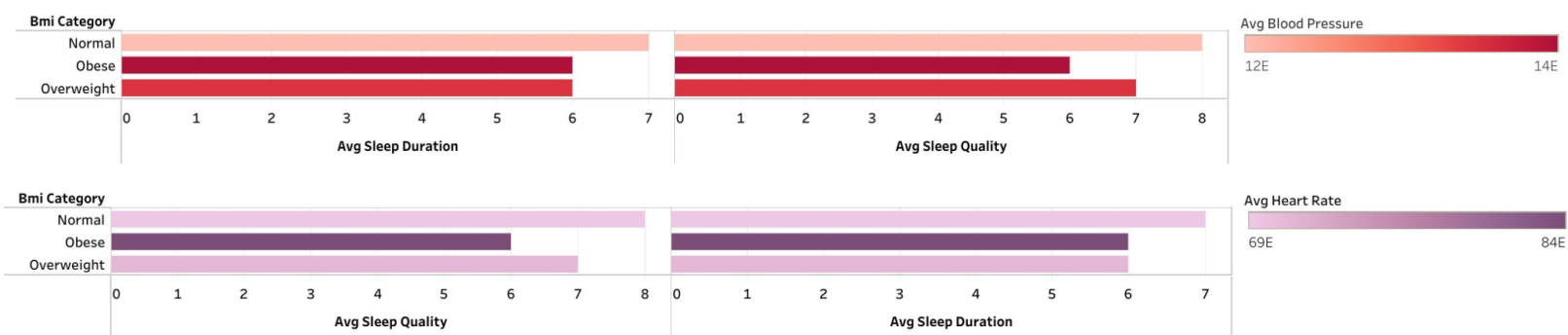


-- Dataset: Sleep Health and Lifestyle
 -- Source: Kaggle

-- 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;
```



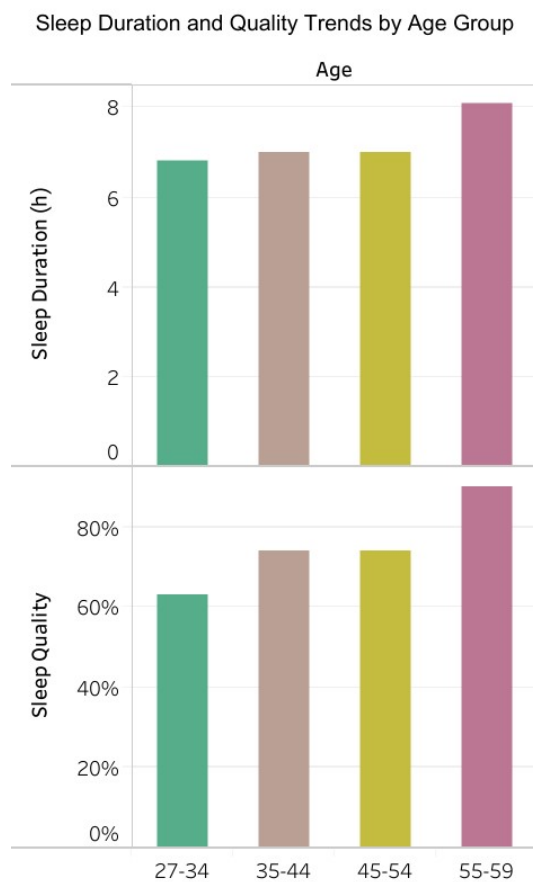
-- Are there any trends in sleep duration or quality over different age groups?

```
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
    Age

```



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

```

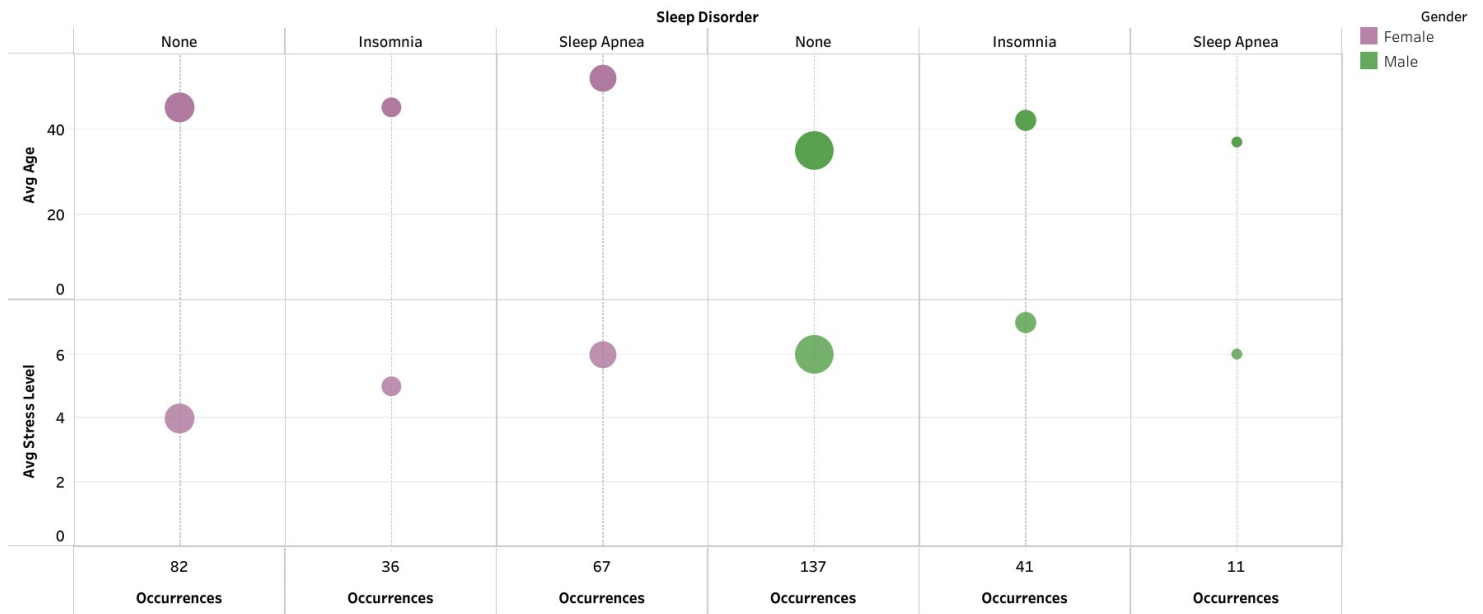
SELECT
    sleep_disorder,
    COUNT(*) AS count_of_occurrences,
    AVG(age) AS avg_age,
    gender,
    AVG(stress_level) AS avg_stress_level
FROM

```

```

`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?

```

SELECT
    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`

```

Correlation Between Stress Level and Health Metrics

