1. **To what extent does Traffic Density contribute to the Cost of Living Index in urban areas, and are there specific cities where this impact is more pronounced?**

```sql
SELECT
 City,
 Cost_of_Living_Index,
 Traffic_Density
FROM
 my-data-project-401909.Happiness_Data.US_happiness
ORDER BY
 Cost_of_living_Index desc
```

2. **Is there a discernible pattern between Air Quality Index and Happiness Score, and how does the presence of green spaces interact with air quality in influencing happiness?**

```sql
SELECT
  CORR(Happiness_Score, Air_Quality_Index) AS correlation_coefficient1,
  CORR(Happiness_Score, Green_Space_Area) AS correlation_coefficient2,
  CORR(Air_Quality_Index, Green_Space_Area) AS correlation_coefficient3
FROM
  my-data-project-401909.Happiness_Data.US_happiness;
```

3. **How does the relationship between Air Quality Index and Healthcare Index vary among the various cities?**

```sql
(
SELECT
 City,
 Air_Quality_Index,
 Healthcare_Index
FROM
 my-data-project-401909.Happiness_Data.US_happiness
ORDER BY
 Air_Quality_Index ASC
LIMIT 5
)
UNION ALL
(
SELECT
 City,
 Air_Quality_Index,
 Healthcare_Index
FROM
 my-data-project-401909.Happiness_Data.US_happiness
ORDER BY
 Air_Quality_Index DESC
```

```
LIMIT 5
)
```

4. Do cities with more Green Spaces have a better Healthcare Index?

```
    (
SELECT
 City,
 Green_Space_Area,
 Healthcare_Index
FROM
 my-data-project-401909.Happiness_Data.US_happiness
ORDER BY
 Green_Space_Area
LIMIT 5

)
UNION ALL
    (
SELECT
 City,
 Green_Space_Area,
 Healthcare_Index
FROM
 my-data-project-401909.Happiness_Data.US_happiness
ORDER BY
 Green_Space_Area DESC
LIMIT 5

)
```

5. Are there noticeable trends in the Happiness Score over the years?

```
SELECT
 Year,
 AVG (Happiness_Score) AS average_happiness_score
FROM
 my-data-project-401909.Happiness_Data.US_happiness
GROUP BY
 Year
ORDER BY
 Year
```

6. What is the average decibel and which cities are above average?

```
SELECT
 City,
 Decibel_Level
FROM
 my-data-project-401909.Happiness_Data.US_happiness
WHERE
 Decibel_Level > (
```

```sql
  SELECT
   AVG (Decibel_Level) AS average_decibel_level
  FROM
    my-data-project-401909.Happiness_Data.US_happiness
 )

ORDER BY
   Decibel_Level DESC
  LIMIT 10;
```