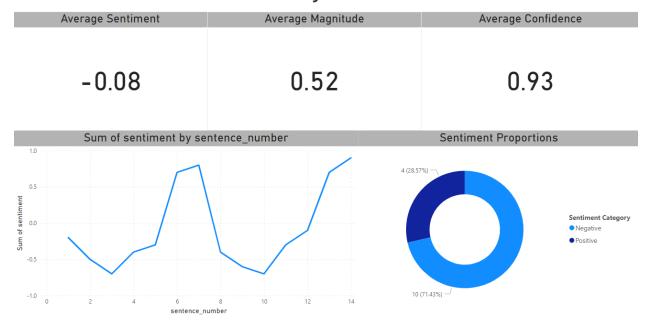
## MySQL Database:

```
1 •
           create database sentiment_analysis_database;
   2
   3 • ○ CREATE TABLE sentiment_analysis (
   4
                id INT AUTO_INCREMENT PRIMARY KEY,
   5
                wav_filename VARCHAR(255),
   6
                sentence_number INT,
                sentence_text TEXT,
   8
                sentiment FLOAT,
   9
                magnitude FLOAT,
  10
                transcription_date DATE,
  11
                transcription_confidence FLOAT,
  12
                speech_duration_seconds FLOAT
  13
           );
  14
  15 •
           select * from sentiment_analysis;
16
100%
         1:15
              Filter Rows: Q Search
                                                           Edit:
                                                                               Export/Import:
Result Grid
    id
           wav_filename sentence_numb... sentence_text
                                                                                    sentiment magnitude transcription_d... transcription_confide...
                                                                                                         2024-03-04
                                         telephone consultation with customer service w... -0.2
                                                                                                                         0.937995
           French Audio 1
    2
           French Audio 2
                                         I would like to speak to a customer service repr... -0.5
                                                                                              0.5
                                                                                                         2024-03-04
                                                                                                                         0.931844
           French Audio
                                          check your account I do see additional charges... -0.7
                                                                                              0.7
                                                                                                         2024-03-04
                                                                                                                         0.934747
           French Audio 4
                                                                                                         2024-03-04
                                                                                                                         0.93382
                                          I see and what is the cost of these international... -0.4
                                                                                              0.4
           French Audio
                                          would you like to upgrade to this package woul... -0.3
                                                                                                         2024-03-04
                                                                                                                         0.933702
                                                                                              0.3
                                          from next month your new package including in... 0.7
                                                                                                                         0.931356
           French Audio 6
                                                                                              0.7
                                                                                                         2024-03-04
                                                                                                         2024-03-04
                                                                                                                         0.932467
           French Audio
                                          thus staying in contact with your family abroad... 0.8
                                                                                              0.8
    8
           French Audio 8
                                          today I am going to make a video in French ab... -0.4
                                                                                              0.4
                                                                                                         2024-03-04
                                                                                                                         0.934109
           French Audio
                                          I'm calling you because I received my tele... -0.6
                                                                                                         2024-03-04
                                                                                                                         0.933717
                                                                                                                         0.931428
    10
           French Audio 10
                                          nationals have you made calls abroad recently... -0.7
                                                                                              0.7
                                                                                                         2024-03-04
    11
           French Audio 11
                                          where you call it depends on the country where... -0.3
                                                                                              0.3
                                                                                                         2024-03-04
                                                                                                                         0.93288
    12
           French Audio 12
                                          you will have two hours of international calls pe... -0.1
                                                                                                         2024-03-04
                                                                                                                         0.932192
                                                                                              0.1
           French Audio
                                                                                                         2024-03-04
                                                                                                                         0.933728
    13
                        13
                                          how can I check if I benefit from other services... 0.7
                                                                                              0.7
    14
           French Audio 14
                                          I wish you a good day thank you Pascal have a... 0.9
                                                                                              0.9
                                                                                                         2024-03-04
                                                                                                                         0.938556
    NULL
           NULL
                        NULL
                                                                                                         NULL
```

## PowerBI Visualisations:

## Sentiment Analysis Visualizations



## Interpretations from Visuals:

- Starting with the **Average Sentiment** of -0.08, this hints at a slight skew towards negative feedback overall. But considering it's quite close to zero, the overall sentiment seems to be mixed, with neither positive nor negative feedback overwhelmingly dominating.
- The Average Magnitude score sits at 0.52, reflecting a moderate level of emotional expression in the feedback. This tells me that while there's a certain degree of emotion present in the responses, it doesn't reach levels of extreme sentiment, which is quite common in customer feedback scenarios.
- The **Average Confidence** score is pretty high at 0.93, which gives me a lot of faith in the sentiment analysis process. This score suggests that the underlying data, likely the transcriptions from audio or text inputs, has been interpreted by the AI with a high degree of certainty, making the resulting sentiment analysis quite trustworthy.
- The line chart depicting the Sum of Sentiment by Sentence Number reveals a
  fluctuating pattern, indicating a mix of positive and negative sentiments throughout the
  text. This fluctuation is valuable as it points to the complexity of the feedback,
  suggesting that certain aspects or moments are received more positively or negatively
  than others.
- The Sentiment Proportions Donut Chart in our dashboard clearly indicates that 71.43% of the feedback is negative, with only 28.57% positive. This substantial lean towards negative feedback aligns with the average sentiment score and suggests that negative customer experiences are prevalent and need to be addressed. Despite the minority of positive feedback, it's crucial to understand the drivers behind the overwhelming negative sentiment to inform any necessary improvements.