**Week 1: Data Cleaning & Preprocessing**

Tasks:

• Build and structure the data model.

• Clean and preprocess the data using SQL and Python (pandas, Matplotlib).

Proposed Distribution:

• Esraa Ahmed: Clean the data using SQL.

• George Gerges Georgy: Clean the data using Python (pandas).

• Ahmed Emadeddin Zaghloul: Implement data processing code and ensure data quality.

Deliverables:

• A clean, well-prepared dataset ready for analysis.

• Data processing scripts (e.g., Jupyter Notebook or SQL script).

Week 2: Data Analysis (Analysis Questions)

Tasks:

• Identify key analysis questions based on the dataset.

• Extract patterns and trends using SQL and Python.

Proposed Distribution:

• Omnya Mamdouh Ibrahim: Define the analytical questions and required reports.

• Aya Ahmed Abdelfattah: Perform data analysis with SQL to answer specific questions.

• Ahmed Emadeddin Zaghloul: Perform data analysis with Python (pandas, Matplotlib) and create initial visualizations.

Deliverables:

• A list of analytical questions that can be answered with the data.

• Preliminary reports and findings.

Week 3: Forecasting

Tasks:

• Determine forecasting questions (e.g., future ridership, revenue).

• Build a predictive model using Python (scikit-learn).

• Generate forecasts (e.g., number of future rides, projected revenue).

Proposed Distribution:

• George Gerges Georgy: Develop the predictive model using scikit-learn.

• Ahmed Emadeddin Zaghloul: Create visualizations to present the forecasting results.

Deliverables:

• Reports on future trends and forecasts.

• Charts and graphs illustrating the predictions.

Week 4: Final Visualization & Presentation

Tasks:

• Develop an interactive dashboard using Tableau.

• Prepare the final report and presentation.

Proposed Distribution:

• Omnya Mamdouh Ibrahim: Draft the final report and presentation.

• Esraa Ahmed: Design the Tableau dashboard.

• Aya Ahmed Abdelfattah: Test the dashboard and suggest improvements.

Deliverables:

• An interactive dashboard showcasing the analysis and forecasts.

• A final report and presentation ready for submission and discussion.

**KPI`s Summary Section:**

1-Number of tickets

2-Total Revenue

3-Average per tickets day

4-

5-

6-