**Detailed Steps for Each Phase:**

**Project Setup:**

1**. Data Preparation:**

**Load the Dataset:**

* Load the dataset into an SQL database using a script or tool like pgAdmin.

**Data Cleaning:**

* Write a script to handle missing values, normalize numerical features, and encode categorical variables.

**Data Exploration:**

- Use pandas, seaborn, and matplotlib for EDA.

- Visualize the data distributions and relationships.

**2. Model Implementation:**

**Retrieve Data from SQL:**

* Write a script to connect to the SQL database and retrieve the data.
* Use SQLAlchemy for database connection.

**Train Models:**

* Implement Linear Regression, Random Forest Regressor, and Gradient Boosting Regressor in a script.
* Split the data into training and testing sets.
* Train the models and evaluate their performance.

**3. Model Optimization:**

**Hyperparameter Tuning:**

* Use GridSearchCV for hyperparameter tuning.
* Document the hyperparameters and results in a CSV file.

**4. Final Model and Evaluation:**

**Select the Best Model:**

* Compare the models based on evaluation metrics.
* Select the best-performing model.
* Print/Display Model Performance:
* Ensure the final script prints or displays the model performance metrics.

**5. Last task to complete is the detailed ReadMe file and PowerPoint**