Team Collaboration & Project Reflection

This project was executed by **Group 2** as part of the RDAMP-LMS_Analytics_RCHG initiative. Our focus was on analysing LMS data to derive actionable business insights using SQL, Power BI, Excel, and Python. This section outlines our team dynamics, workflow, challenges, and reflections.

Members	GitHub Handle	Responsibilities
Abdulmalik Alegimenlen	https://github.com/AbdulMalik198	Data Cleaning
Carlton Francis	https://github.com/Carlton756	Dashboard Creation
Karunesh Sehgal	https://github.com/sehgal71	Data Modeling (Star Schema) and Statistical Analysis
Oluebubechi Anyahara	https://github.com/Ebube22	Creation of Visuals

Responsibility Allocation:

Tasks were assigned based on each member's strengths, interests, and prior experience. This helped ensure efficiency and mutual learning.

Strengths & Contributions:

- **Abdulmalik Alegimenlen:** Ensured deadlines were met, maintaining communication and deliverables. Cleaned the patchy data and created calculated columns for better analysis.
- **Carlton Francis:** Delivered visuals for storytelling with data, creating compelling dashboards and KPIs in Power BI.
- **Karunesh Sehgal:** Brought SQL and database skills, for building schemas and data dimensions. Applied statistical techniques using python to uncover hidden trends and relationships between variables.
- **Oluebubechi Anyahara:** Collaborated with Carlton for enhanced visualizations and better dashboard creation.

Each team member collaborated actively and supported one another throughout the project, stepping in to fill any gaps and ensure collective success.

Weaknesses & Gaps:

- Limited experience with forecasting and regression analysis initially led to slower dashboard and visuals development.
- Time management became challenging when balancing different time zones of team members and various delays with project deadlines.

Team Workflow & Communication:

- **Methodology:** Agile
  We followed **Agile** workflow, working in daily sprints with check-ins with updates on the status of workflow.
- **Tools Used:**
  - GitHub – Source control and collaboration
  - Slack – Daily communication

Challenges Faced:

Challenge	Solution
Inconsistent data formats	Developed standardized data cleaning rules across all Excel files
Time zone and availability issues	Scheduled meetings based on mutual availability and used async check-ins
Dashboard performance in Power BI	Optimized data models and reduced visuals to increase load speed

Lessons Learned:

- **Technical Skills:**
  Learned practical applications of SQL joins, schema design, Power BI DAX formulas, and Jupyter visualizations.
- **Soft Skills:**
  Improved communication, conflict resolution, and remote collaboration skills.
- **Next Time, We Would:**
  - Use a shared task board from the start. (Git, Google Collab etc.)
  - Set clearer weekly goals and tighter version control protocols
  - Allocate more time for final dashboard design and user testing
  - Early data modelling for better dimension creation and understanding of each aspect of data and how it affects the results

This project not only strengthened our technical toolkit but also showed us the importance of communication, collaboration, and adaptability in team environments. We are proud of our results and confident in our ability to work as a professional data team in future projects.