**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.

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| **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 |
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**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.