Dashboard Summary & Assumptions Report

The 10 MS Student's Performance Dashboard was designed to provide an interactive overview of student performance trends across multiple exams. Built in Power BI, it brings together daily attempt data, attendance patterns, pass rates, and performance comparisons to help educators identify areas for improvement and recognize top achievers.

From the data, a total of 300 unique students participated in 12 exams over 31 days. The average pass rate stood at 70.6%, indicating a generally positive performance level. The Daily Attempts by Exam and Day-wise Attendance Trend visuals reveal participation peaks around mid-month, suggesting better engagement during that period.

The Pass Rate Trend Over Time chart highlights fluctuations — with days of both exceptional performance (above 90%) and sharp declines (around 10–30%). This variation could reflect exam difficulty, student preparedness, or timing effects. The Performance Trend Categories show that 47.5% of students improved, 46.3% declined, and only 6.2% remained consistent, pointing to a highly dynamic learning curve.

The Top Improvement in Second Attempt visual emphasizes notable student progress, particularly in "Monthly Exam 1 (MCQ)," where several learners showed identical improvement margins. Conversely, the Exams with Highest Decline chart helps flag subjects or tests needing review or additional support.

Assumptions:

- The dataset assumes each user_id represents a unique student.

- Improvement" is measured by comparing the latest attempt with the immediately previous attempt.

- Attendance trends are based on daily participation counts, not unique logins.

- Pass rates are calculated relative to each exam's defined pass mark.

Overall, the dashboard provides actionable insights into performance dynamics, enabling data-driven decisions to boost both student outcomes and teaching effectiveness.