**XYZ Pre-Primary School Analysis Report:**

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**1. Executive Summary**

This report provides a comprehensive analysis of enrolment trends at XYZ Pre-Primary School in India from 2007 to 2023. Leveraging Python Jupyter Notebook, SQL, Power BI, and Excel, we explore the factors influencing enrolments, including parental feedback, growth rates, academic performance, extracurricular activities, and teacher attrition. Based on these insights, we propose strategic recommendations to boost enrolment rates.

**2. Introduction**

XYZ Pre-Primary School was established in 2007.This school was famous for high quality education in pre-primary classes. Now, School has experienced varying enrolment rates over the years. Understanding the underlying factors and addressing the challenges is crucial for sustained growth. This report aims to analyse the enrolment trends and provide actionable strategies to enhance enrolments.

**3. Data Collection**

The data used in this analysis includes:

* Number of enrolments (2007-2023): Annual enrolment number
* Parents Feedback Data: Qualitative and quantitative feedback from parents.
* Enrolment Growth Rate (%): Year-over-year percentage growth in enrolments.
* Academic Performance Data: Academic records of students.
* Extracurricular Performance Data: Participation and achievements in extracurricular activities.
* Teacher Attrition Data: Annual data on teacher departures.

**4. Methodology**

* Data Handling
* Excel: Initial data cleaning and preparation.
* SQL: Data querying and retrieval from databases.
* Python Jupyter Notebook: Data analysis and statistical computations.
* Power BI: Data visualization and dashboard creation.
* Analytical Techniques
* Descriptive Statistics: Summarizing enrolment numbers, academic, and extracurricular performances.
* Trend Analysis: Identifying enrolment trends over the years.
* Correlation Analysis: Examining relationships between various factors and enrolment rates.
* Attrition Analysis: Analysing the impact of teacher attrition on enrolments.

**5. Findings**

**Enrolment Trends (2007-2023)**

* Overall Growth: enrolment numbers have shown fluctuations with periods of growth and decline.
* Recent Trends: A noticeable decline in enrolments over the past three years.

**Parental Feedback**

* Positive Feedback: High satisfaction with academic standards and extracurricular opportunities.
* Negative Feedback: Concerns about teacher turnover and its impact on student learning.

**Enrolment Growth Rate**

* Growth Analysis: Initial positive growth followed by a decline in recent years.
* Influencing Factors: Strong correlation between teacher attrition and negative parental feedback with enrolment rates.

**Academic and Extracurricular Performance:**

* Academic Performance: High academic performance correlates with higher enrolments.
* Extracurricular Achievements: Increased participation positively impacts enrolment rates.

**Teacher Attrition:**

* Attrition Trends: Increasing teacher attrition rates over the years.
* Impact on Enrolments: High attrition rates negatively impact student enrolments.

**6. Visualizations and Dashboards**

Using Power BI, we created comprehensive visualizations and interactive dashboards to highlight key trends and insights from the data. Key visuals include:

* Enrolment Trends Over Time: Line charts displaying annual enrolment numbers.
* Parental Feedback Analysis: Pie charts and bar graphs summarizing feedback.
* Growth Rate Analysis: Bar charts depicting annual growth rates.
* Academic and Extracurricular Performance: Comparative analysis using bar graphs and scatter plots.
* Teacher Attrition Impact: Line and bar charts showing the relationship between attrition rates and enrolment numbers.

**7. Strategic Recommendations**

**Short-Term Strategies:**

1. Improve Teacher Retention: Implement immediate policies to reduce teacher attrition, such as offering competitive salaries, professional development opportunities, and improving working conditions.

2. Enhance Communication with Parents: Address parental concerns actively, particularly regarding teacher stability and quality of education.

3. Boost Extracurricular Programs: Increase the visibility and availability of extracurricular activities to attract more students.

**Long-Term Strategies:**

1. Invest in Teacher Development: Establish a long-term teacher development program to ensure high-quality education and reduce attrition.

2. Strengthen Academic Programs: Continuously improve the academic curriculum to maintain high standards and attract more enrolments.

3. Marketing and Outreach: Develop a robust marketing strategy to highlight the school's strengths and achievements, thereby attracting new students and retaining current ones.

4. Regular Feedback Mechanism: Implement a continuous feedback system to monitor and address stakeholder concerns promptly.

**8. Conclusion**

The analysis of enrolment trends at XYZ Pre-Primary School reveals key factors affecting student enrolments, including teacher attrition, parental feedback, academic performance, and extracurricular activities. By implementing the recommended short-term and long-term strategies, XYZ School can address these issues effectively and boost enrolment rates. This data-driven approach will help the school maintain its reputation for quality education and continue to grow its student base.

**9. Appendices**

* Appendix A: Detailed Data Tables
* Appendix B: Python Scripts and SQL Queries
* Appendix C: Power BI Dashboard