

Student Performance Enhancement Report

1. Key Observations

- Test Preparation Matters: Students who completed a test preparation course tend to score higher.
- Parental Education Influence: Higher parent education levels correlate with better scores.
- Lunch Type Impact: Students with standard lunch perform better.
- Sports & Study Habits: Regular sports and >10 weekly study hours improve performance.

2. Performance Trends by Category

- Test Preparation: Avg. 10-20% increase in scores with preparation.
- Weekly Study Hours: <5 hrs = lower scores, 10+ hrs = better performance.
- Practice Sport: Regular activity links to better discipline and scores.
- Parent Education: Master's degree holders' children score 10-15 points higher.

3. Issues Identified

- Missing Data: Incomplete values for EthnicGroup, TransportMeans, etc.
- Inconsistent Formats: Weekly study hours are not standardized (e.g., '< 5', '05-Oct').

4. Recommendations to Improve Student Performance

Academic Preparation:

- Encourage mandatory test preparation.
- Extra coaching for at-risk groups.

Extracurricular Activities:

- Promote regular sports or physical activity.

Study Planning:

- Implement structured study schedules (minimum 10 hrs/week).
- Monitor and reward improved study time.

Nutrition Support:

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- Improve meal access for students on free/reduced lunch.

Data Hygiene:

- Regular audits and standardization of entries.