

Student Score Analysis

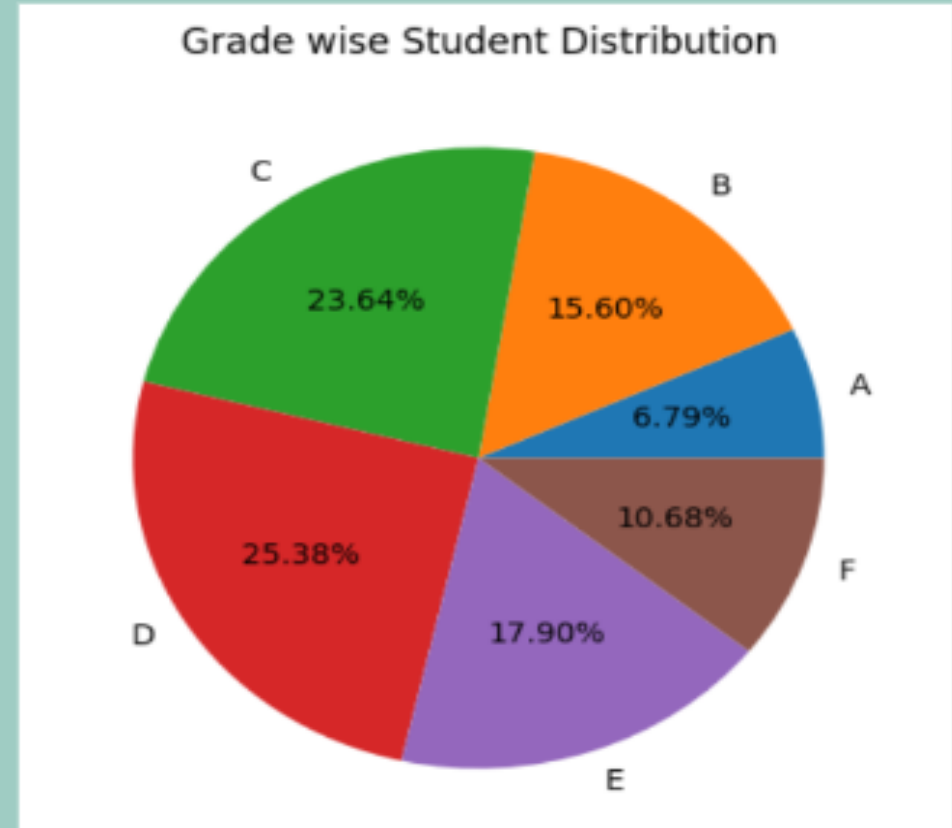
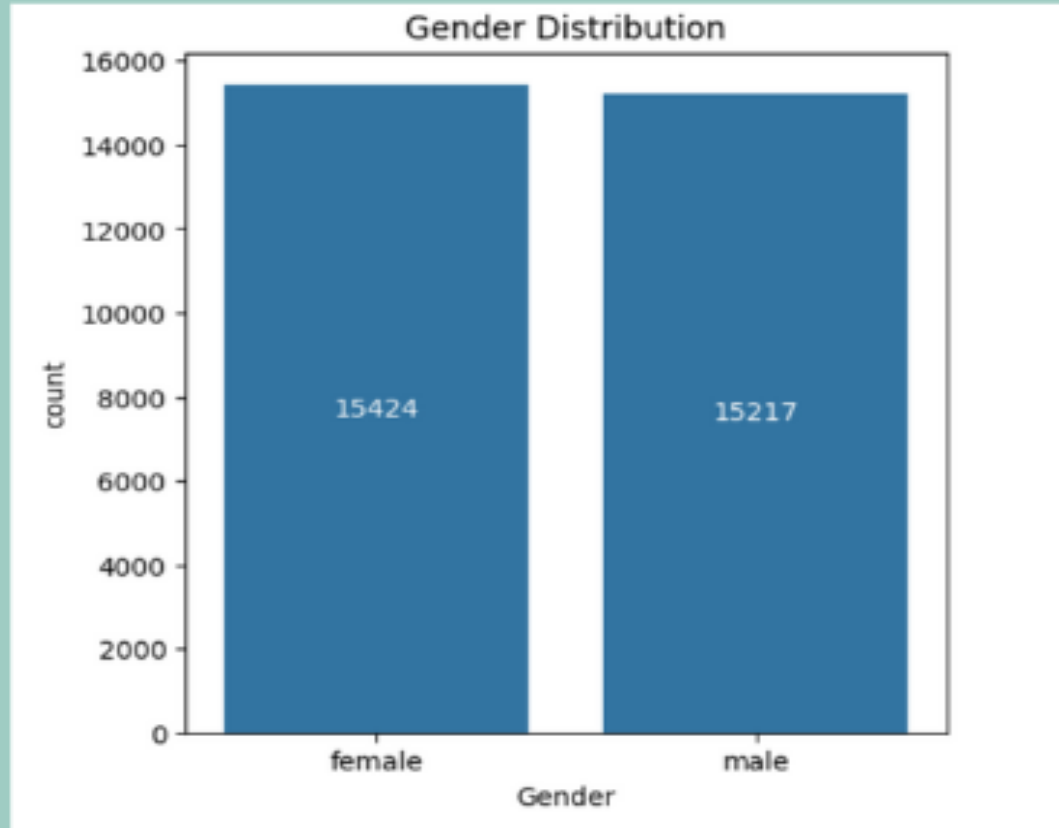
Problem Statement

We need to examine various factors affecting student performance, including gender, parental education, marital status, study habits, sports participation, and study hours.

By understanding these influences, educators and policymakers can develop strategies to improve academic outcomes and overall student well-being.

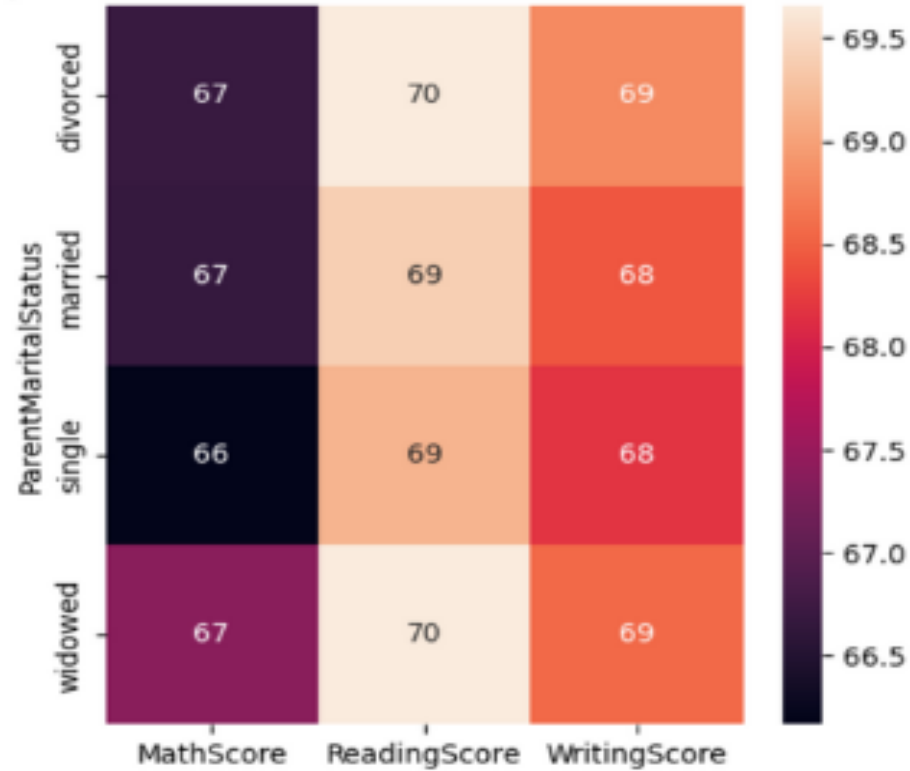


Visualization

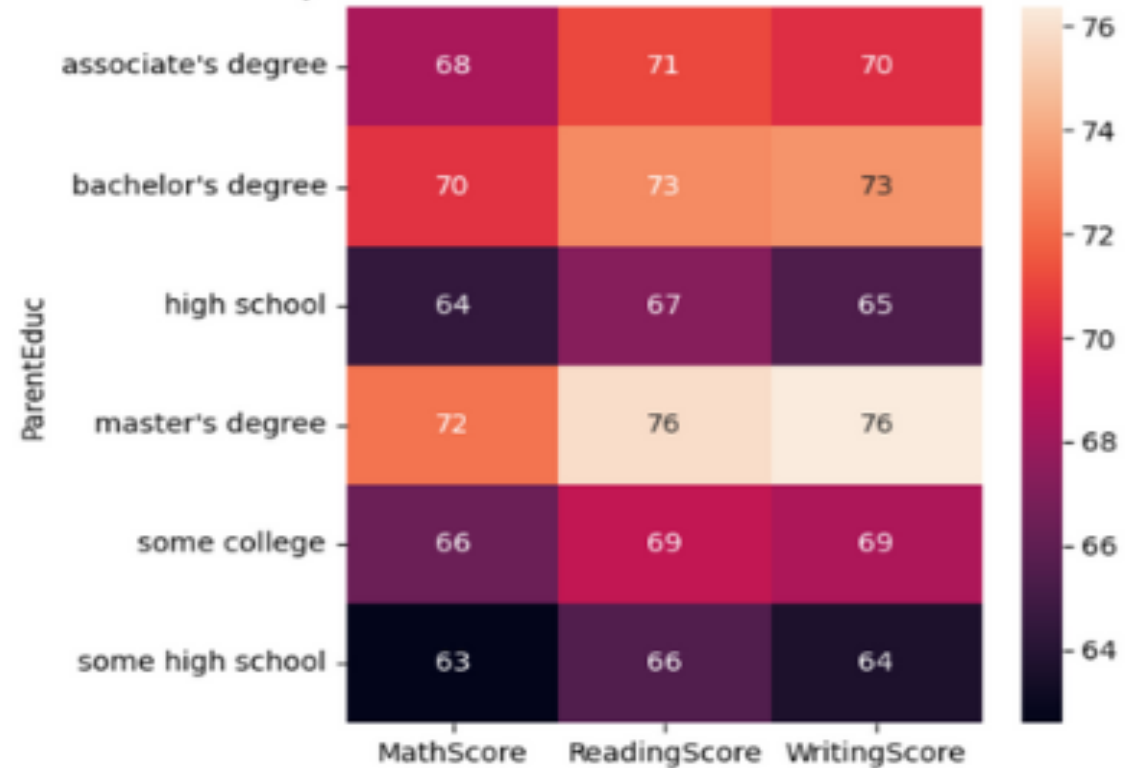


Visualization

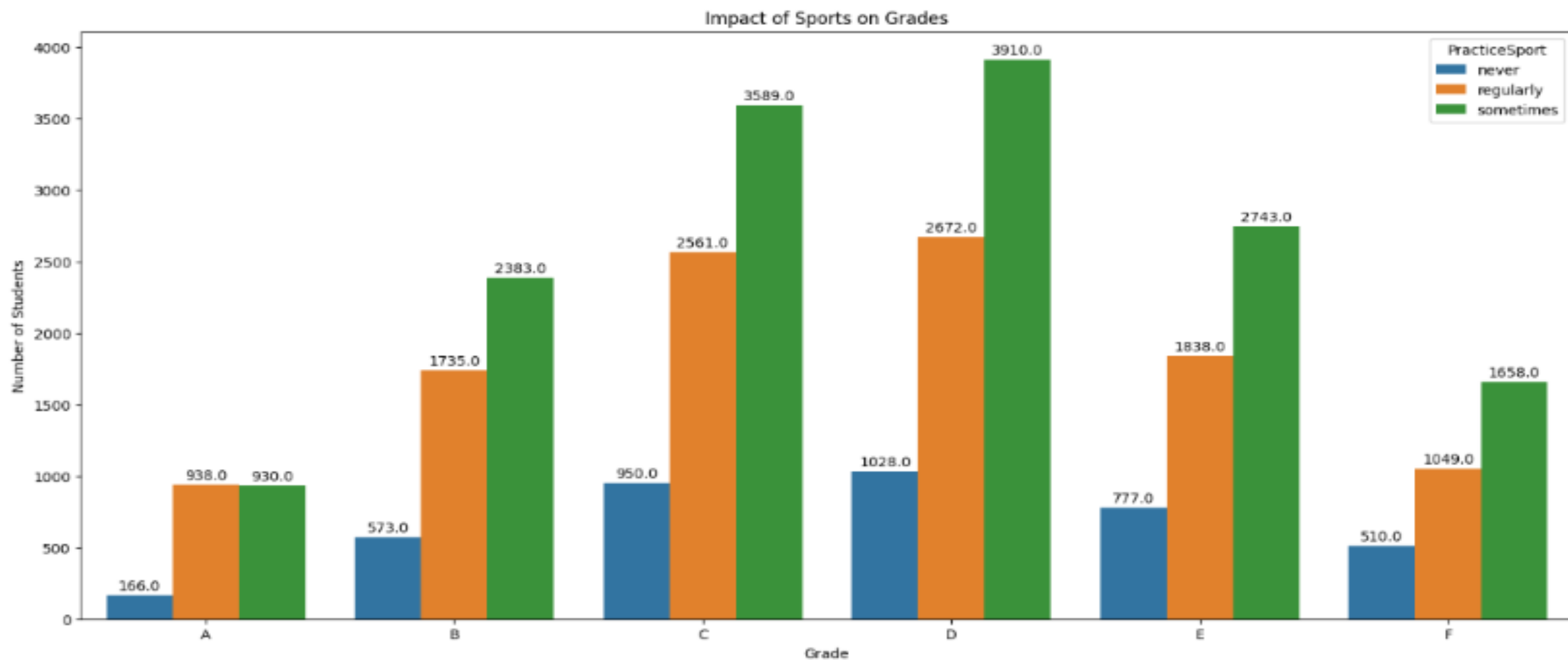
Impact Of Parent's Marital Status On Student's Scores



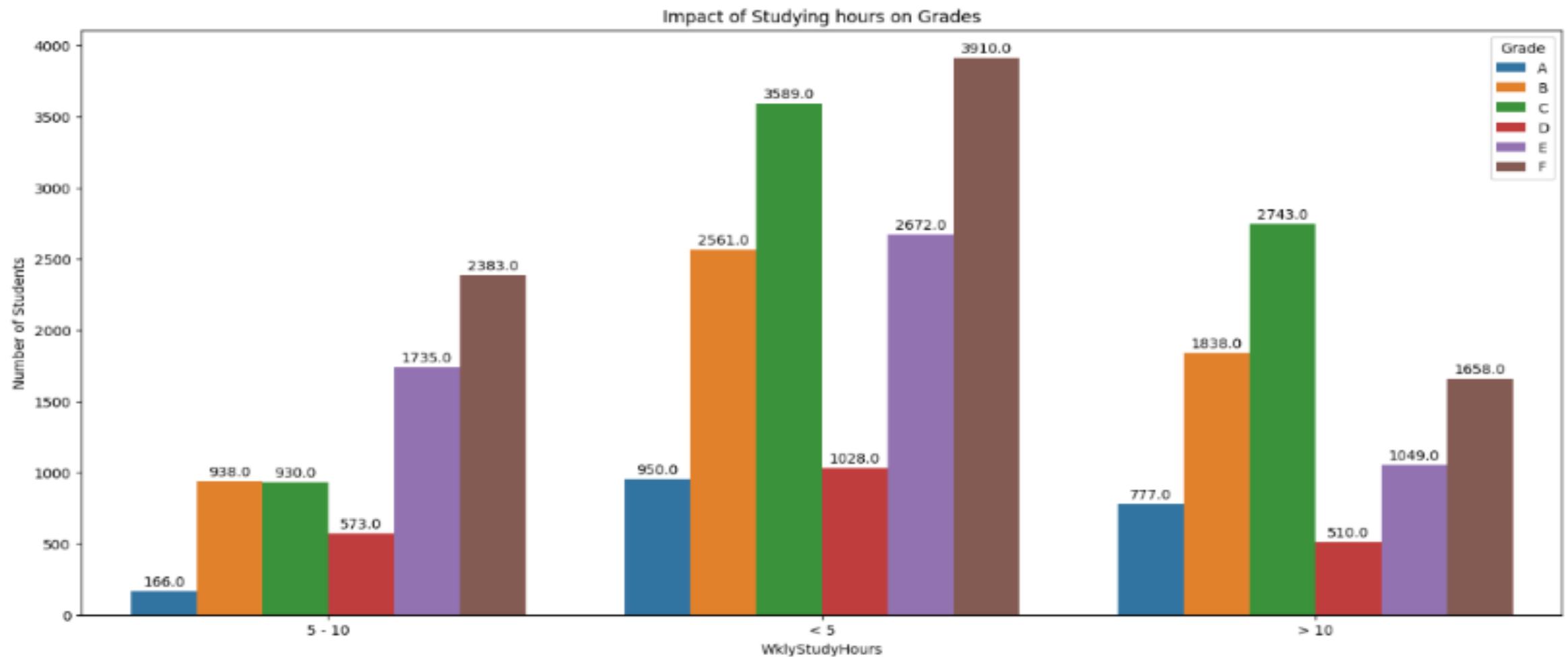
Impact Of Parents Education On Student Scores



Visualization



Visualization



Student Score Analysis

Insights & Scope of Improvement



Gender Distribution:

- **Insight:** The number of female students is slightly higher than the number of male students.
- **Improvement:** Ensure that teaching methods and resources are equally accessible and effective for both genders, promoting gender equality in education.

Parental Education:

- **Insight:** Higher parental education correlates with higher average marks of their children.
- **Improvement:** Encourage and facilitate parental involvement in education, offering workshops and resources to help parents support their children's learning.



Student Score Analysis

Insights & Scope of Improvement



Parental Marital Status:

- **Insight:** The marital status of parents has negligible or no impact on their child's score.

Score Distribution and Outliers:

- **Insight:** All three scores (Maths, Writing, Reading) have many outliers, with Maths being the most scattered, indicating it is the hardest subject for students.
- **Improvement:** Provide additional support and resources for Maths, such as tutoring, supplementary materials, and interactive learning tools to help students improve.

Overall Performance Distribution:

- **Insight:** About 25% of students scored poorly, another 25% scored well, and the remaining 50% scored average.
- **Improvement:** Identify and support students who are struggling, while also challenging high-achieving students with advanced coursework and enrichment programs.



Student Score Analysis

Insights & Scope of Improvement



Sports Participation:

- **Insight:** Students who practice sports "sometimes" tend to achieve better grades compared to those who "never" or "regularly" practice sports.
- **Improvement:** Promote balanced physical activity among students, integrating moderate sports participation into the daily routine to enhance academic performance and overall health.

Study Hours:

- **Insight:** As the number of study hours increases, the count of students scoring bad grades decreases. The best results are obtained when students study for more than 10 hours a day.
- **Improvement:** Encourage effective study habits and time management skills, ensuring students have a structured study schedule that maximizes learning without causing burnout.



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Thank You

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