**Title: [Descriptive and clear]**

*"Analyzing Student Performance on MCAS to Identify Areas for Intervention"*

**Objective**

In this project, I aimed to analyze MCAS scores across schools to identify performance gaps by grade, subgroup, and subject, with the goal of helping district leaders target support where it’s most needed.

**Dataset**

The data comes from internal school reports on MCAS, including variables like school name, student ID, grade level, disability status, English learner status, test subject, and performance level. I cleaned the data using Excel and loaded it into Power BI for analysis.

**Tools and Methods**

I used Power BI to create interactive dashboards. Measures and calculated columns were written in DAX, including a custom measure to calculate percent of students in each performance band by subgroup.

**Visualization**

The main page includes slicers by school and subgroup, a bar chart showing performance levels by grade, and a line chart tracking score trends over time. A map highlights geographic patterns in achievement.

**Key Findings**

* Schools with higher proportions of English learners had lower average performance in ELA.
* Grade 5 showed the widest performance gap between students with and without IEPs.
* Science scores were strong overall but varied significantly between districts.

**Limitations**

Some schools had missing data or low student counts in subgroups, which limited comparability. Future work could integrate growth scores and attendance.

**Next Steps**

I would like to build predictive models to estimate student performance based on historical data and demographics, and share insights via scheduled Power BI reports.

**Project: Interactive Dashboard for MCAS Performance Analysis**

**Objective**

This project presents a Power BI dashboard designed to help educators and district leaders explore MCAS results across 66 schools, representing approximately 23,693 students. The goal is to provide a clear and flexible way to review student performance by various subgroups and testing dimensions.

**Dataset**

The dataset includes one record per student, with fields such as:

* Student ID
* School name
* Grade level
* SPED (Special Education) status
* EL (English Learner) status
* Assessment name
* Subject (Math, ELA, or Science)
* Scaled score
* Performance level (e.g., Meeting Expectations)

**Tools and Techniques**

* **Tool Used**: Power BI
* **Key Features**:
  + Interactive slicers for **test year**, **school**, **grade**, **subject**, **SPED/EL status**
  + Cross-filtering behavior between slicers to refine views dynamically
  + A search bar to allow quick multi-student lookup
  + Print-ready layout for sharing snapshots in meetings or reports

**Key Takeaways**

* The dashboard is built with user experience in mind: filters update contextually, making it easy to focus on specific student populations or academic areas.
* The layout is optimized for both on-screen analysis and printable formats, supporting various stakeholder needs—from data teams to school principals.

**Next Steps**

This tool could be expanded to include:

* Longitudinal analysis to track progress year over year
* Comparison benchmarks (e.g., district averages vs. school-level results)
* Growth metrics and attendance overlays to deepen insight

I recently built a Power BI dashboard to explore MCAS scores across 66 schools and nearly 24,000 students.

The goal was to give educators a way to easily filter and compare results by test year, subject, grade, school, and key student groups like English learners and students with disabilities.

I designed it to be **interactive and intuitive**, with slicers that adjust to each other and a layout optimized for both on-screen use and printing. One feature I’m especially proud of is the ability to search and select specific students quickly—a small detail that makes a big difference for school-based users.

This project challenged me to think like a stakeholder: What would a principal or data coordinator *need* to see in two minutes? How can I reduce friction and focus attention on what matters?

📊 Check it out here: [Insert link to your portfolio page or Power BI report]

Feedback welcome!