

Date	30APRIL 2023
Team ID	NM2023TMID17100
Project Name	Unleashing the Potential of Our Youth. A Student Performance Analysis
Maximum Marks	4 Marks

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## Define your problem statement

The problem statement of the “Student Performance Analysis and Improvement Recommendations” project is to improve academic performance by analyzing and identifying areas of strength and weakness for students, classes, and schools. The project aims to use IBM Cognos to collect and analyze various data sources such as grades, test scores, attendance records, and surveys to provide tailored instruction and intervention recommendations. The project emphasizes the importance of data-driven analysis to identify factors contributing to student success or challenges and to provide recommendations for improvement. The expected outcomes of the project are insights into how students are performing academically, identification of areas of strength and weakness, and recommendations for improvement.

5 minutes

PROBLEM

How might we [your problem statement]?

### Key rules of brainstorming

To run a smooth and productive session

Stay in topic.

Encourage wild ideas.

Defer judgment.

Listen to others.

Go for volume.

If possible, be visual.

## Step-2: Brainstorm, Idea Listing and Grouping

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### Brainstorm

Write down any ideas that come to mind that address your problem statement.

🕒 10 minutes

#### TIP

You can select a sticky note and hit the pencil (switch to sketch) icon to start drawing!

Person 1

Collecting and analyzing data: Identify relevant data sources, such as student grades, test scores, attendance records, and surveys, and use IBM Cognos to collect and analyze this data. Look for patterns and trends in the data that can help identify areas of strength and weakness.

Person 2

Setting benchmarks: Use data to establish benchmarks for student performance, such as class averages, individual student performance, and overall school performance. Use these benchmarks to set performance goals and track progress over time.

Person 3

Identifying factors contributing to success or challenges: Analyze data to identify factors that contribute to student success or challenges, such as attendance, participation in extracurricular activities, and parental involvement. Use this information to inform recommendations for improving student performance.

Person 4

Use data analysis to provide tailored instruction and intervention recommendations to teachers, students, and parents. Monitor student progress and adjust strategies as necessary, while collaborating with stakeholders to ensure interventions are effective and well-supported. Emphasize the importance of data-driven analysis for improving academic performance and educate stakeholders on its benefits.

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### Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

🕒 20 minutes

#### TIP

Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.

1. Collect and analyze relevant data sources using IBM Cognos to identify patterns and trends in academic performance.
2. Establish benchmarks for student performance and track progress over time.
3. Analyze data to identify factors contributing to success or challenges, and make recommendations for improvement.
4. Provide tailored instruction and intervention recommendations to improve student performance.
5. Monitor progress and adjust strategies as needed based on data analysis.
6. Collaborate with stakeholders to ensure effective interventions and strategies.
7. Emphasize the importance of data-driven analysis for improving academic performance and educate stakeholders on its benefits.

### Step-3: Idea Prioritization

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## Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

🕒 20 minutes

### TIP

Participants can use their cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the laser pointer holding the **H** key on the keyboard.

