Student Portal - Power BI Dashboard & Data Analysis

Project Overview: The Student Portal project involves the development of a comprehensive Power BI dashboard that provides insights into student performance, attendance, course enrollment, and grading. The objective of this project was to create an interactive and data-driven solution for educational institutions, enabling administrators, teachers, and students to track progress and make informed decisions.

Key Features:

1. **Grade Distribution & Performance Monitoring**:
    - Measures to track and visualize the distribution of grades (A, B, C, etc.) for students.
    - DAX measures such as Grade A Count, Grade B Count, and so on, provide a clear breakdown of how many students achieved each grade.
    - Bar charts and tables display the count of students per grade, offering valuable insights into performance trends over time.
2. **Course Enrollment Insights**:
    - Analysis of student enrollment by course.
    - Visualizations to track the number of students enrolled in each course, helping administrators and faculty to manage course load and resource allocation effectively.
    - Filters and slicers allow for drill-down capabilities to analyze enrollment by course or department.
3. **Student Progress Tracking**:
    - A dynamic dashboard to monitor student progress by visualizing grades, attendance, and course completion.
    - Interactive elements enable the tracking of individual students' academic journeys, including progress over semesters.
4. **Interactive User Interface**:
    - The dashboard was designed with a focus on interactivity, allowing users to select various filters and slicers to focus on specific groups of students, courses, or time periods.
    - Multiple visualizations such as bar charts, line charts, and tables are used for an engaging user experience, promoting user interaction with the data.
5. **Data-Driven Decision Making**:
    - The project empowers administrators, educators, and students with data-driven insights. The dashboard offers actionable intelligence for decision-makers, such as identifying at-risk students based on attendance or grade trends and making adjustments to improve overall performance.

Student Management Portal

Student Summary

Name	Gender	Age	Major	Year	Department	Grade	Credit Hours	CourseID	StudentID
Alex Johnson	Male	21	Physics	Junior	Computer Science	A	3	107	3
Alex Johnson	Male	21	Physics	Junior	Computer Science	B-	4	102	3
Alex Johnson	Male	21	Physics	Junior	Physics	A	3	103	3
Brian Scott	Male	20	Computer Science	Sophomore	Economics	A	3	106	11
Brian Scott	Male	20	Computer Science	Sophomore	Physics	B	3	103	11
Christopher Lee	Male	21	Engineering	Junior	Mathematics	A	3	101	13
Christopher Lee	Male	21	Engineering	Junior	Mathematics	A	3	108	13
David Lee	Male	22	Computer Science	Senior	Engineering	A	4	104	7
David Lee	Male	22	Computer Science	Senior	Mathematics	A-	3	108	7
Emily Davis	Female	19	Engineering	Freshman	Economics	C+	3	106	4
Emily Davis	Female	19	Engineering	Freshman	Engineering	B+	4	104	4
Total		**427**					**33**		

84
Total Classes Attended

3.48
Average Grade Points

20
Students By Selected Course

146.0
Grade Points

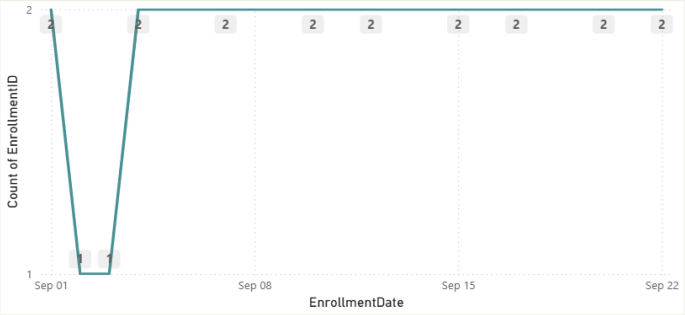
Name
All

CourseName
All

Instructor
All

Contact:
USAJID91@gmail.com

Student Enrollment Data



Grades Analysis