

**Title:** "Student Performance Dashboard – Academic & Behavioral Insights"

**Duration:** 2.5 to 3 Hours

**Total Marks:** 50

#### **Objective:**

Build an interactive **Power BI Dashboard** that analyzes academic performance, attendance, and behavior of students across different grades, subjects, and terms. This exam tests your skills in data modeling, DAX, visualization, and storytelling.

#### **Dataset:**

1. [Students.csv](#) – StudentID, Name, Gender, Class, Section
2. [Scores.csv](#) – StudentID, Subject, ExamType, Score, MaxScore, Term
3. [Attendance.csv](#) – StudentID, Date, Status (Present/Absent), Reason
4. [Behavior.csv](#) – StudentID, Date, BehaviorType, Notes

#### **Required Components:**

##### **1. Data Modeling & Cleaning**

- Load all datasets and create relationships.
- Clean column names, correct datatypes.  
Replace nulls/missing values where appropriate.

##### **2. DAX Measures**

Create the following calculated fields:

- 
- **% Score** = Score / MaxScore
  - **Average Score per Subject**
  - **Attendance %**
  - **Behavior Count per Type**
  - **Performance Category** (High/Medium/Low based on average % score using SWITCH or IF)

### 3. Visualizations

Create an interactive report with:

- **Bar chart**: Average scores by Subject and Class
- **Line chart**: Performance trend by Term
- **Donut chart**: Behavior types distribution
- **Table**: Student-wise scores with conditional formatting (green for >80%, red for <40%)
- **Card visuals**: KPIs like Total Students, Average Attendance, Avg Score

### 4. Interactivity

- Slicers for Class, Section, Subject, Term
- Drillthrough page for individual student profile
- Tooltips with mini charts or metrics
- Bookmark navigation (e.g., switch between Academic and Behavioral views)

### 5. Optional

- Create a mobile layout for viewing on Power BI mobile app
- 

### Deliverables:

- **.pbix** file
  - Optional: Short documentation about insights derived
-

 **Evaluation Criteria Summary:**

Component	Marks
Data Modeling & Cleaning	10
DAX Calculations	10
Visualizations & Storytelling	15
Slicers, Filters & Drillthrough	10
Optional Features	5
<b>Total</b>	<b>50</b>