📘 Documentation: Power BI Dashboards for Examination System

1. **Overview Dashboard** ç#**☑** الماحي

**Description**: Provides a comprehensive overview of key academic and institutional metrics, including counts of students, exams, courses, instructors, and more. It also highlights student performance and hiring distribution by company. **Purpose:** To give a quick overview of key system metrics and outcomes.

1. **Student Dashboard** **☑** الماحي

**Description**: Displays key student data including gender distribution, geographic location, course completion, certification status, hiring by gender, and graduation year trends. **Purpose**: To offer insights into student demographics, progress, and outcomes.

1. **Instructor Dashboard☑** ايمن

**Description**: Displays general data about instructors, such as count, department affiliation, experience, and feedback.

**Purpose**: To monitor instructor involvement and support performance review

1. **Exam Dashboard** ‘**☑** عبدالصمد

**Description**: providing insights into exam performance and logistics. display key metrics such as total exam attempts, exams conducted, participation rates, and overall scores, alongside trends over time, distribution by question types, and exam counts per branch

**Purpose**: these dashboards is to monitor and analyze exam-related data to identify trends and inform improvements in the examination process.

**5.Course Dashboard** **☑** ايمن

**Description**: Displays detailed insights about courses, such as the number of courses, pass rates, enrollment levels, and student

performance by course.

**Purpose**: To evaluate course effectiveness and identify areas for academic improvement.

**6.Department Performance Dashboard** **☑** عبدالصمد

**Description:** Display various dashboards for a department, showcasing student demographics, course information, and overall academic performance. The dashboards present key metrics like total students, credit hours, courses, instructors, and exams, along with detailed breakdowns by course, student, and historical trends

**Purpose:** provide a comprehensive overview of the department's operations and facilitate data-driven decision-making

**7.Feedback & Evaluation Dashboard ☑ عبدالصمد**

**Description:** providing detailed insights into course and exam evaluations. They display key metrics such as average difficulty, relevance, overall evaluation, and clarity scores, along with trends over time for instructors and courses, and breakdowns by question type.

**Purpose:** analyze feedback data to identify areas for improvement in curriculum, instruction, and assessments.

8. **Learning Behavior Dashboard ☑**

**Description**: Analyzes how students engage with learning content and the academic system.

**Purpose**: To identify learning habits and support students with low engagement.

**10.Academic Trends & Forecast Dashboard ☑**

**Description**: Tracks academic performance and enrollment trends over time, with forecasting analytics.

**Purpose**: To support strategic planning and proactive academic management.

**11.Cognitive Load & Exam Difficulty Dashboard ☑**

**Description**: Evaluates exam difficulty based on student feedback and actual performance.

**Purpose**: To ensure fairness and balance in exam design

**12.Curriculum Alignment Dashboard ☑**

**Description**: Assesses how well courses and exams align with curriculum objectives.

**Purpose**: To improve course design and ensure learning outcomes are met.

**13- Branch Ranking by Track Performance Dashboard ☑ ايمن  
Description:** Ranks branches based on the average student grade within each academic track, allowing a performance comparison across different branches for the same specialization. After this initial analysis, branches are also ranked overall based on the cumulative performance across all tracks, using final scores as a benchmark.  
Purpose: To identify top-performing branches within each track, support targeted improvements, and establish a comprehensive performance hierarchy across the entire system for strategic planning and academic excellence.

**14- Track Comparative Success Dashboard ☑  
Description:** Tracks students who retake exams and compares scores across attempts to evaluate progress or patterns in failures.  
Purpose: To measure the effectiveness of exam retakes and identify areas for support

**15-Track Overview Dashboard ☑ الماحي**

**Description:** This dashboard presents an overview of tracks, detailing student counts and course distribution per track. It uses visual tools to explore track and course relationships. **Purpose:** To monitor track performance and support data-driven decisions on track management.

**16- Exam Question Analysis Dashboard ☑ ايمن**

**Description:** Breaks down exam questions by topic, difficulty, and student performance, highlighting frequently missed questions.

**17- Course Overload Alert Dashboard ☑**

**Description**:

To identify instances where a teacher or course is under significant pressure.

**Purpose:**

To help redistribute workloads and improve the learning experience.

**18-** **Instructor Supervision Load Dashboard ☑**

**Description:**

Focuses on tracking the workload associated with academic supervisors.

**Purpose:**

Ensuring fair task distribution and improving the quality of supervision.

**19-Freelance Dashboard ☑**

**Description:**Tracks freelance job completion, types, and distribution by gender, department, and track.

**Purpose:**To ensure students meet ITI freelance requirements and analyze participation trends.

**20-Certification Dashboard ☑ الماحي**

**Description:**Tracks student certification status and hiring counts, showing the relationship between certification and employment. **Purpose:**To monitor certification rates and evaluate their influence on job placement.

**21. Track Performance Dashboard**

This dashboard provides insights into how each learning track is performing based on student outcomes and feedback. It shows total and average grades per track, along with student and instructor evaluations of question difficulty and clarity. It helps identify which tracks are performing well and where students may be facing challenges.