Measures: Average score, pass/fail ratio Student Performance Overview Tables & Columns Needed: Result(StudentID, ExamID, TotalGrade), Exam(ExamID, CourseID, Date) Purpose: Track student's academic progress User: Student, Instructor Charts: Bar chart, TreeMap, KPI Topic Mastery Tracker Measures: Score per topic, weak areas Tables & Columns Needed: Answer, Question, Topic Purpose: Identify strengths and weaknesses by topic User: Student Charts: Column chart, Line chart Measures: Daily attempts, success rate Practice Progress Monitor User: Instructor, Admin Tables & Columns Needed: PracticeLog(StudentID, TopicID, AttemptDate, Correct) Charts: Column, Line Student Dashboards Purpose: Monitor practice efforts Instructor Course Effectiveness Measures: Avg score per course/instructor User: Student Tables & Columns Needed: Course, Result Charts: Table, KPI, Slicer Purpose: Measure teaching impact Measures: Certifications per weak topic Certification Recommendations User: Instructor Tables & Columns Needed: WeakTopics, Certification Charts: Table, Histogram, KPI Purpose: Recommend skill-building certifications Question Difficulty Analyzer Measures: % wrong answers per question User: Student Tables & Columns Needed: Answer, Question Charts: Table, KPI, Word Cloud Purpose: Improve question quality Measures: Job matches, avg freelance budget Freelance Opportunities Matcher User: Instructor, Student Tables & Columns Needed: Student\_Course, FreelanceJob Charts: Line chart, Slicer Instructor Dashboards Purpose: Connect learning to freelance gigs Student Improvement Trend Measures: Score improvement User: Student, HR Tables & Columns Needed: Result, Exam Charts: Line, Table Purpose: Track student growth Measures: Interview performance Interview Practice Tracker User: Instructor Tables & Columns Needed: InterviewSim Charts: Heatmap, KPI Examination System Dashboards Purpose: Prep students for real interviews Topic Difficulty Map Measures: Avg topic score Examination System Metrics KPI Dashboard Tables & Columns Needed: Topic, Question, Answer User: Admin, Instructor Purpose: Focus curriculum on weak topics Charts: Pie chart, Table, KPI User: Admin, Instructor Measures: Exams per course, status Exam Overview Dashboard Charts: Step chart, Line chart Tables & Columns Needed: Exam Adaptive Exam Analysis Measures: Difficulty progression Purpose: Track exam scheduling Tables & Columns Needed: AdaptiveLog User: Admin Purpose: Review adaptive exam logic Charts: Line chart, Pie chart System Usage Monitor Measures: Logins per day, usage by role User: HR Tables & Columns Needed: ActivityLog Charts: KPI, Table, Cert list Purpose: Measure system engagement Student Resume Snapshot Measures: Readiness score, skills User: Admin Tables & Columns Needed: Student, Result, ResumeTags, Certification Charts: Table, Gauge Purpose: Present student profiles Recruiter/HR Dashboards **Cheating Alert Dashboard** Measures: Similar answers, exam time User: HR Tables & Columns Needed: Answer, ActivityLog Charts: Table, KPI, Stacked bar Purpose: Detect academic dishonesty Top Talent Pipeline Measures: Top performers, cert completion Admin Dashboards User: Admin Tables & Columns Needed: Result, Certification, ResumeTags Charts: Table, KPI cards Purpose: Identify hire-ready students Measures: Avg student scores, pass rates Instructor Performance Summary Tables & Columns Needed: Instructor, Course, Result Purpose: Evaluate instructors User: Admin, HR Charts: Pie, Table Certification Completion Tracker Measures: Completion rates Tables & Columns Needed: Student, CertificationProgress Purpose: Monitor learning beyond exams User: Admin Charts: Heatmap, Line

System Activity Heatmap

Measures: Load over time

Tables & Columns Needed: ActivityLog

Purpose: Detect high/low traffic times

User: Student, Instructor

Charts: Line chart (Score over Time), KPI card, Pie chart (Pass/Fail)