**Phase 9: Reporting, Dashboards & Security Review**

**Custom Report Types Created**

To support advanced analytics for academics, placements, and activities, multiple custom report types were designed:

1. **Students with Academic Records**

   - **Primary Object**: Student

   - **Related Objects**: Enrollments, Grades

   - **Purpose**: Provide a comprehensive view of student academic performance including GPA, credits, and academic standing.

2. **Student Placement Records**

   - **Primary Object**: Student

   - **Related Objects**: Job Applications, Job Postings

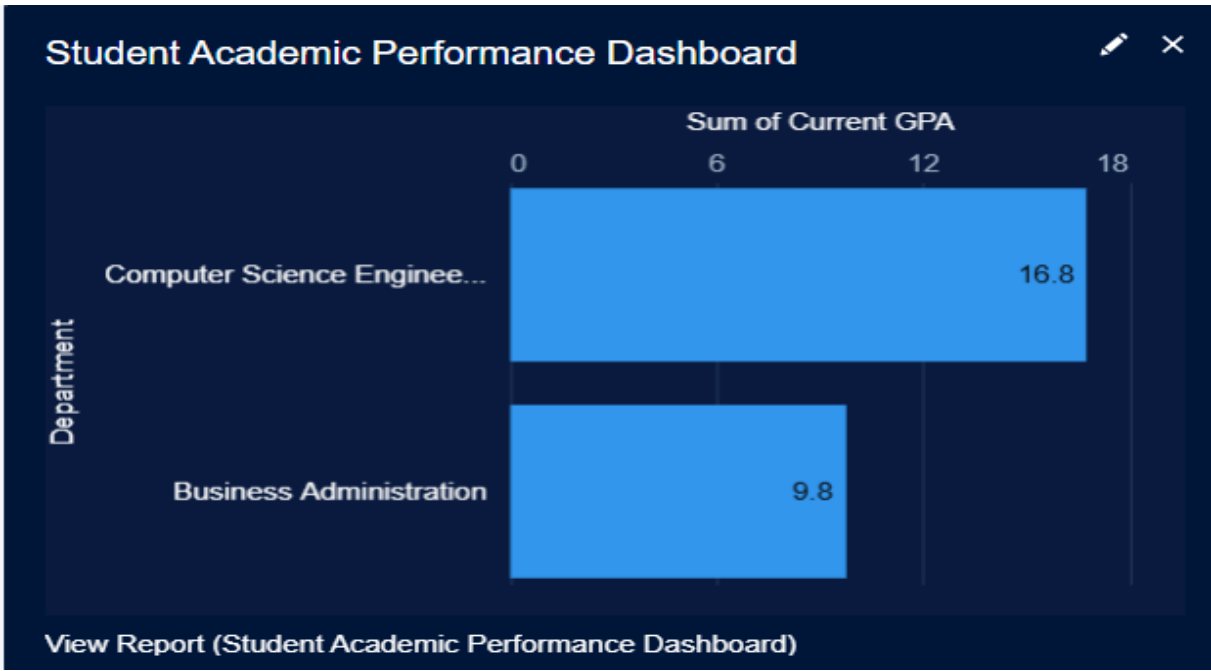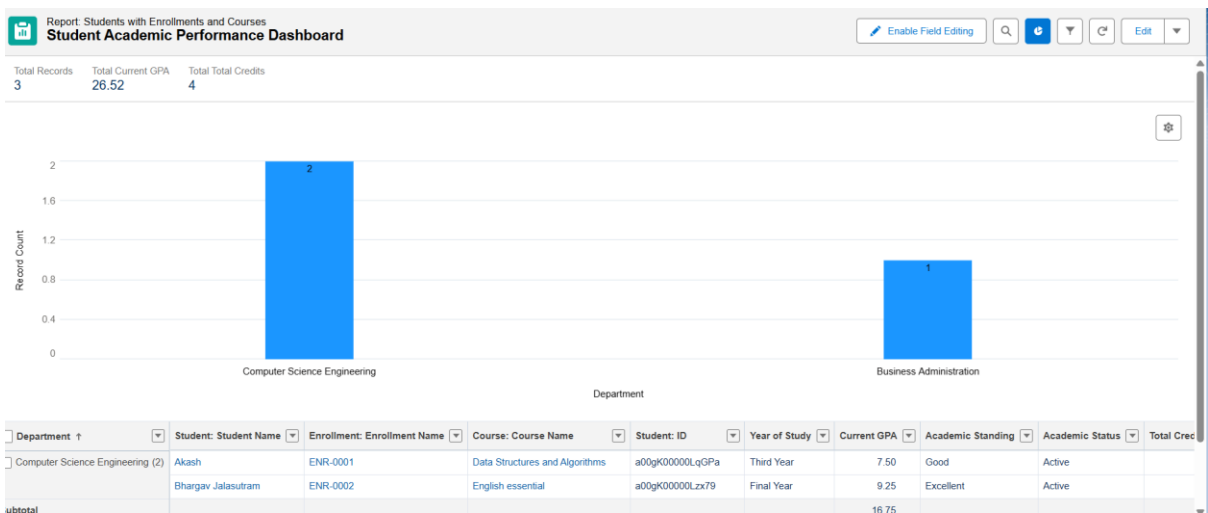   - **Purpose**: Track student job applications, interviews, and final placement offers.

3. **Clubs with Members and Events**

   - **Primary Object**: Club

   - **Related Objects**: Club Memberships, Events

   - **Purpose**: Track student engagement in extracurricular activities and event participation.
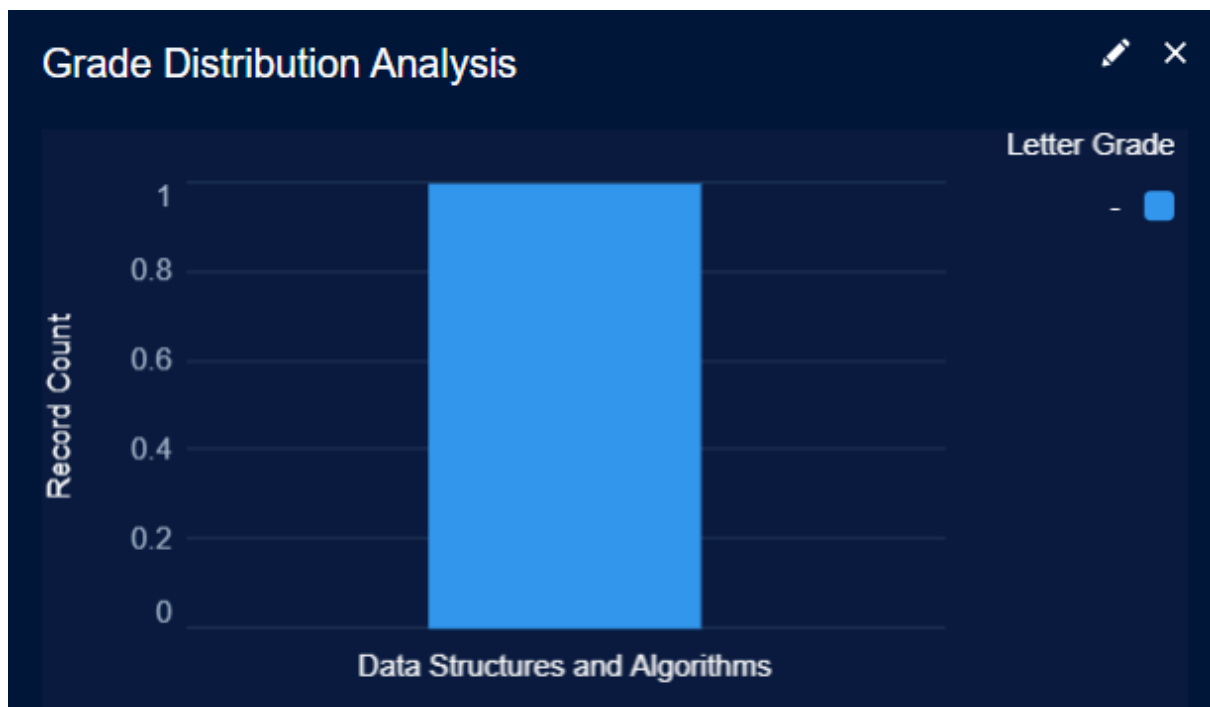
**Reports Created**

1. **Student Academic Performance Dashboard**

    o Grouped by Department and Student Name.

    o Columns: Student ID, Department, GPA, Standing, Total Credits.

    o **Chart**: Vertical Bar (Students by Department).

## Grade Distribution Analysis

- Grouped by Course and Letter Grade.

- Filters: Current Semester.

- **Chart**: Bar Chart (Grade Distribution).



## Student GPA Trends

- Grouped by Student and Semester.

- Shows GPA progression over semesters.

- **Chart**: Line Chart (Average GPA trend per student).

## Top Academic Performers

| Grade: Gr... | Studen... | Student: Department | Student: ... | Student: Acade... |
|---|---|---|---|---|
| GRD-00001 | CSE202 5001 | Computer Science Er | 7.50 | Good |

View Report (Top Academic Performers)

**Low Attendance Alert Report**

- Columns: Student ID, Course, Attendance %, Advisor, Email.

- Filters: Attendance < 75%, Enrolled.

- **Highlight**: Attendance < 75% = Red.

**Low Attendance Alert**

| Student: Student Na... | Enrollment: Enrollment ... | Course: Course ... | Student: ID | Institutional ... |
|---|---|---|---|---|
| Bhargav Jalasutram | ENR-0002 | English essential | a00gK00000Lzx | - |
| Hrashith | ENR-0003 | English essential | a00gK00000Lzv | - |

View Report (Low Attendance Alert)          As of Sep 30, 2025, 12:41 AM

## Student Placement Dashboard

- Grouped by Application Status → Department.

- Columns: Job Title, Company, Interview Date.

- **Chart**: Funnel Chart (Placement Stages).

**Student Placement Dashboard**

| Job Application: Applicati... | Student: ... | Student: Depart... | Job P... | Appl... |
|---|---|---|---|---|
| APP-00001 | vinuthna swarna | Computer Science I | Software developer | Appliec |
| APP-00002 | Hrashith | Business Administra | Software developer | Offer R |

- View Report (Student Placement Dashboard)

## Placement Package Statistics

- Filters: Application Status = "Offer Accepted".

- Summaries: Avg, Highest, Lowest Package.

- **Chart**: Bar Chart (Avg Package by Department).

## Dashboards

Dashboards were created in **EduConnect Reports Folder** combining key reports:

- **Academic Dashboard** → GPA Trends, Grade Distribution, Low Attendance Alerts.

- **Placement Dashboard** → Placement Funnel, Package Analysis.

- **Activities Dashboard** → Club Membership & Event Attendance.

- **Performance Dashboard** → Top Performers, Department-wise Distribution.

These dashboards provide faculty, placement officers, and administrators a **real-time 360° view** of student performance, engagement, and career outcomes.

**Security Review**

- **Field-Level Security (FLS):** Sensitive fields like GPA, Placement Package, and Attendance % are restricted to authorized users only.

- **Session Settings:** Auto logout after inactivity to prevent unauthorized access.

- **Audit Trail:** Tracks admin changes to reports, dashboards, and security settings.

- **Sharing Rules:** Ensures student data is private, with controlled access based on user roles (Faculty, Placement Officer, Club Coordinator).

This phase ensures data-driven decision-making by offering **customized reports and dashboards** for academics, placements, and student activities, while maintaining institutional **data security and compliance**.