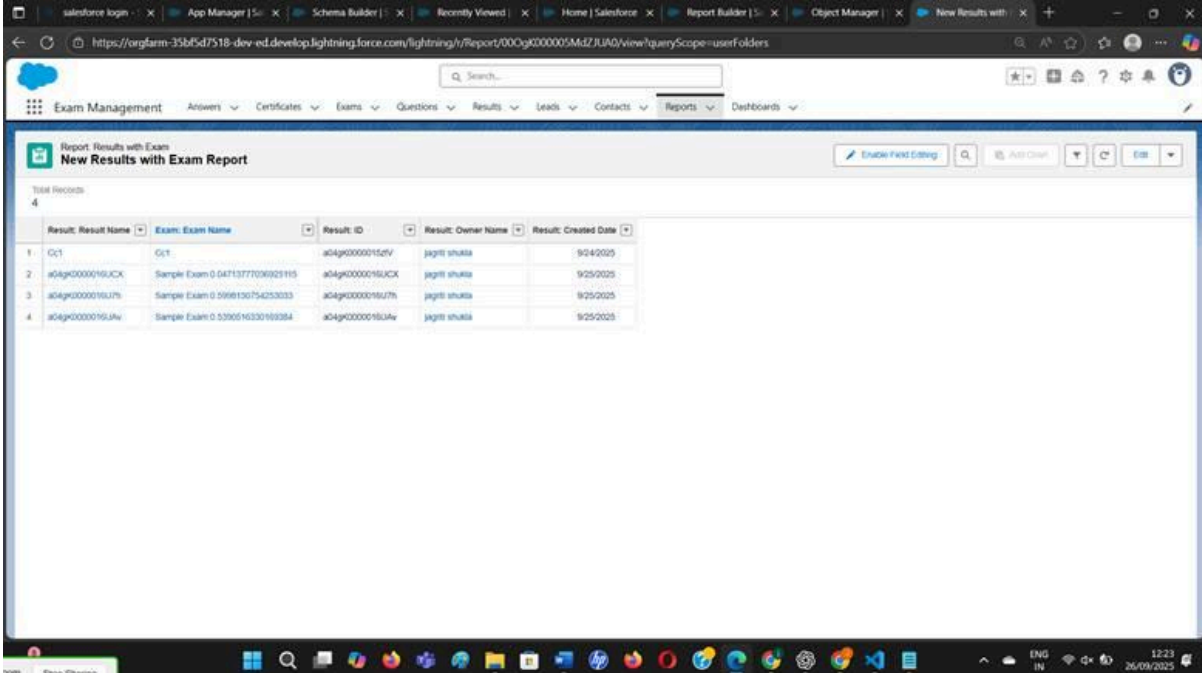Phase 9: Reporting, Dashboards & Security Review Project: Salesforce Online Examination System

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1. Reports (Tabular, Summary, Matrix, Joined)

- · **Tabular Report:** Quick list of student results or exam schedules.

- · **Summary Report:** Summarize results by Exam or Subject.

- · **Matrix Report:** Analyze student performance by Exam vs. Subject.

- · **Joined Report:** Combine Exam and Result data in one report.

- · **Project Usage:** Generate insights for teachers and admins on student performance.
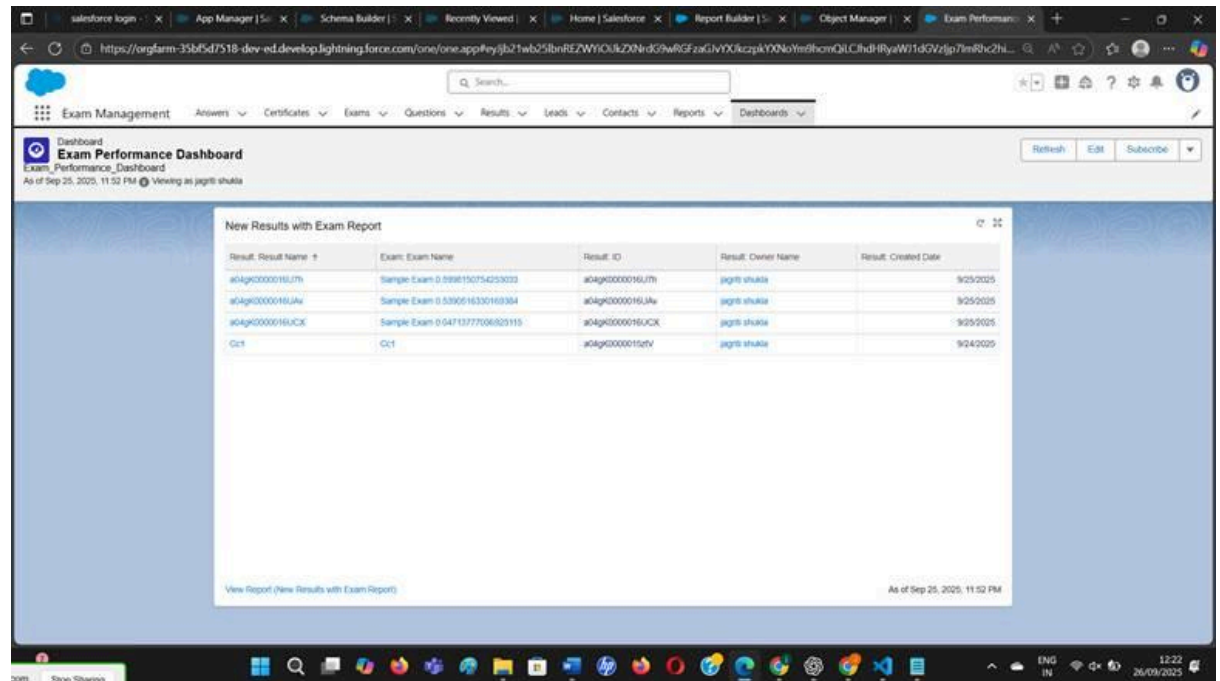

2. Report Types

- · **Custom Report Type:** For objects like Result__c and Exam__c.

- · **Usage:** Include related objects like Student__c, Exam__c for combined reporting.

3. Dashboards

- · **Purpose:** Visual representation of data.

- **Components:** Charts, Tables, Gauges.

- **Project Usage:** Dashboard showing number of exams, average scores, top-performing students.

4. Dynamic Dashboards

- **Purpose:** Personalized dashboards for each user.

- **Project Usage:** Teachers see only their students; admins see all data.

- **Setup:** Enable 'Run as Logged-in User' in dashboard settings.

5. Sharing Settings

- **Purpose:** Control record visibility.

- **Project Usage:**

    o Students see only their results.

    o Teachers see results of their students.

    o Admins have full access.

- **Configuration:** Setup → Sharing Settings → Object-level and record-level rules.

6. Field Level Security

- **Purpose:** Protect sensitive fields.

- **Project Usage:**

  o Hide student personal info from other students.

  o Control visibility of exam answers until grading.

- **Setup:** Setup → Field Accessibility → Profiles.

7. Session Settings

- **Purpose:** Control session timeout and security.

- **Project Usage:**

  o Set session timeout for exam-taking environment.

  o Restrict login hours if needed.

- **Setup:** Setup → Session Settings.

8. Login IP Ranges

- **Purpose:** Restrict access based on location/IP.

- **Project Usage:** Ensure students can only login from school/university network during exams.

- **Setup:** Profile → Login IP Ranges.

9. Audit Trail

- **Purpose:** Track configuration changes and user activity.

- **Project Usage:** Monitor changes in exams, questions, results, and user access.

- **Setup:** Setup → View Setup Audit Trail.