# 📊 Education Insights (SQL): Student Enrollment and Academic Performance Analysis

This project demonstrates proficiency in SQL by analyzing mock K–12 education data. We explore trends in enrollment, subject-level performance, and time-based test outcomes using only SQL (no R or Python). Queries are structured to simulate real-world use cases aligned with the responsibilities of a Junior Data Analyst.

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## 🧠 Purpose

The goal is to use SQL to:

- Track enrollment patterns by grade

- Assess subject-level pass rates

- Identify high-performing students

- Analyze academic trends over time

- Extract insights to support educators and decision-makers

All queries were written and executed in \*\*DB Browser for SQLite\*\* using a relational database built from two CSV files.

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## 📁 File Structure

| Folder | Contents |

|--------|----------|

| `data/` | `students.csv`, `scores.csv` — 201 students, 601 test scores |

| `queries/` | `portfolio\_queries.sql` — 5 SQL queries executed in DB Browser |

| `results/` | Query result exports (CSV screenshots optional) |

| `README.md` | Documentation of project intent and queries |

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## 🧾 Dataset Overview

\*\*students.csv\*\* (201 rows):

- `student\_id`, `name`, `gender`, `birthdate`, `grade\_level`, `enrollment\_date`, `school`

\*\*scores.csv\*\* (601 rows):

- `student\_id`, `subject`, `test\_type`, `score`, `passed`, `test\_date`, `teacher`

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## 🔍 SQL Queries

### Query 1: Enrollment Count by Grade

```sql

SELECT grade\_level, COUNT(\*) AS student\_count

FROM students

GROUP BY grade\_level

ORDER BY grade\_level;