



Data-Driven Insights for Student Financial Aid & Retention

Addressing SDG 4: Quality Education through Data Analysis

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Problem Statement Transformed Our Lives

Key Facts

- X% of students face financial difficulties.
- Financial aid distribution is not always optimized.
- Lack of real-time data for decision-making.

Challenge

Many students struggle financially, leading to dropout risks and academic decline.

Goal

Use data to analyze financial aid's impact on retention and academic performance.

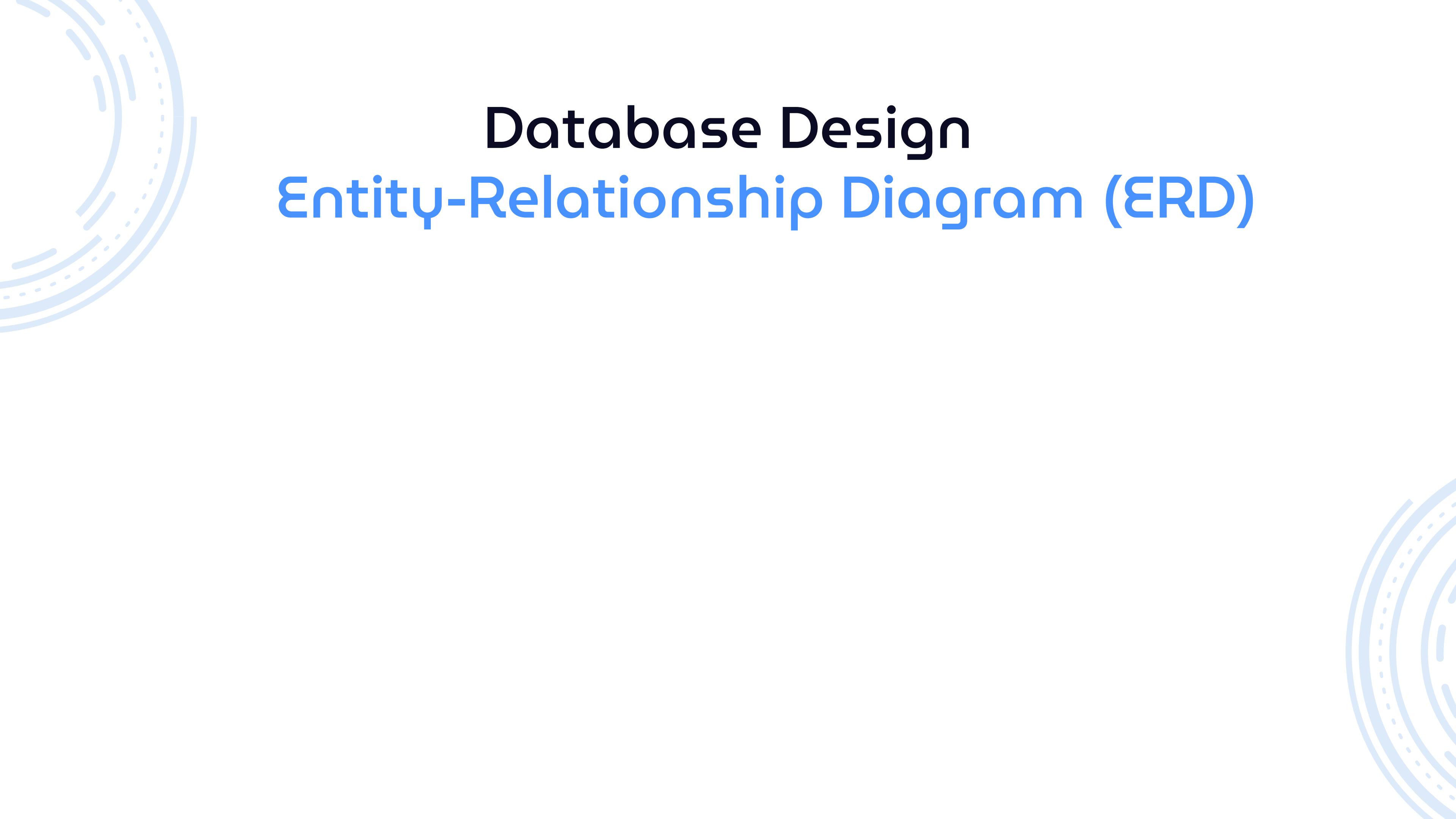
Quality Education

Ensure equal access to education by reducing financial barriers.



How Our Project Helps:

- Data-driven approach to optimize financial aid.
- Identifies high-risk students early.
- Enhances decision-making for educational institutions.

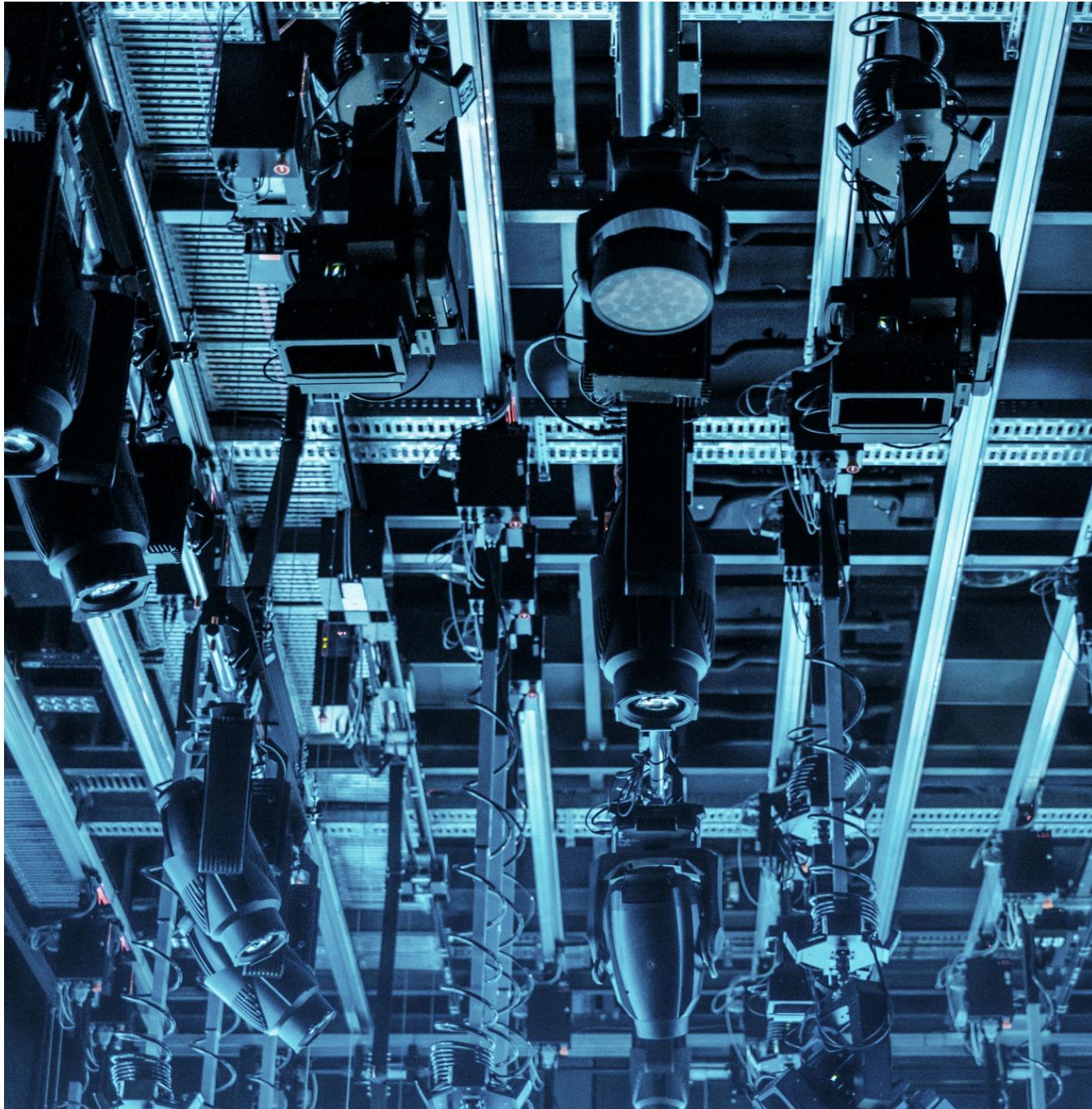


Database Design

Entity-Relationship Diagram (ERD)

Data Analysis & Insights

Connecting the Physical and Digital Worlds



SQL queries Performed and findings

- ✓ Financial aid distribution trends
- ✓ Retention rates among funded vs. non-funded students
- ✓ Expense categories leading to financial stress

85% of students on aid stay enrolled vs. 60% without aid.

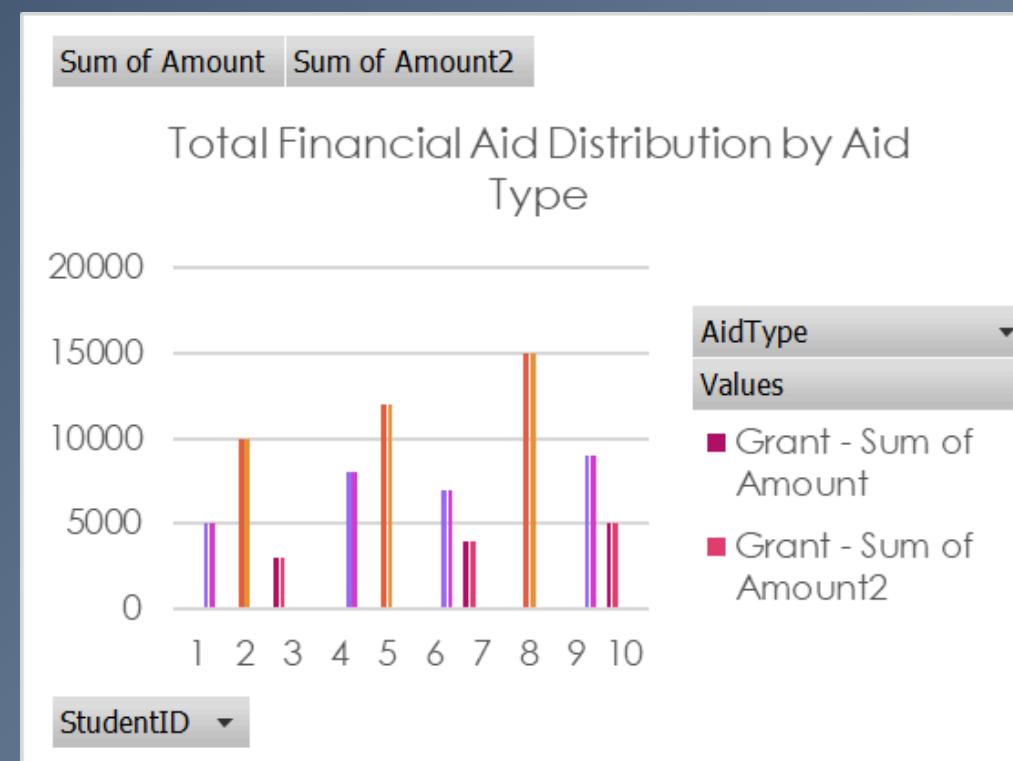
Tuition & housing are the biggest financial burdens.

Early interventions improve retention by X%.

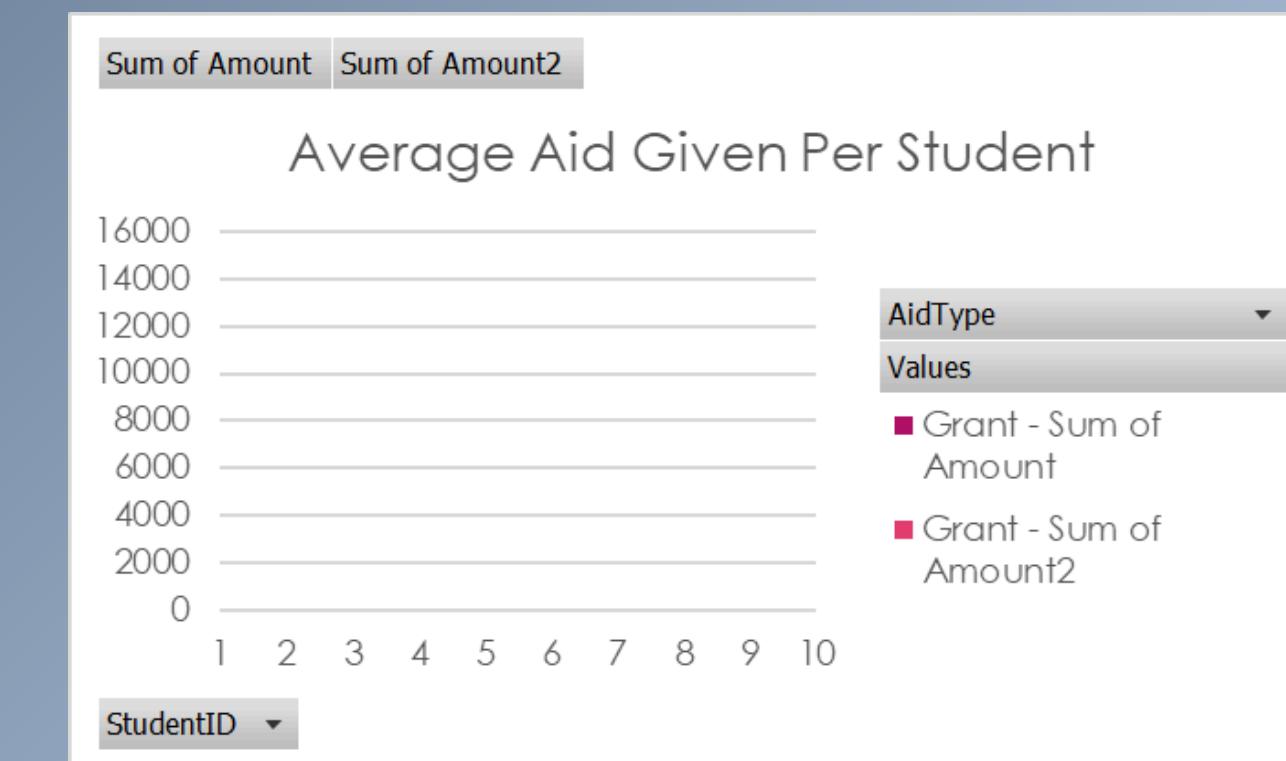
Excel Dashboard Overview

Interactive Dashboard features:

Bar Chart



Line Chart



Integration & Implementation

Data Flow



MySQL stores student and financial data.

SQL queries retrieve key insights.

Data imported into Excel for visualization.

Interactive dashboard for easy decision-making.

Impact & Benefits

Scalable for different institutions & adaptable to more datasets!



✓ For Universities: Helps optimize aid distribution.

✓ For Students: Ensures better financial planning & retention.

✓ For Policymakers: Supports data-driven education policies.

Future Enhancement

- ◆ Machine Learning Predictions: Forecast dropout risks.
- ◆ Mobile Integration: Enable students to track aid & expenses.
- ◆ Expanded Data Sources: Incorporate demographic & socio-economic data.

Conclusion & Call to Action

Summary:

- ✓ Problem: Financial barriers impact student success.
- ✓ Solution: Data-driven insights using MySQL & Excel.
- ✓ Impact: Optimized financial aid → Higher retention.

🔥 Final Call to Action:

Invest in data-driven education policies.

Use insights for better student support.

Expand implementation across institutions.