

University Teacher Information System

Java & MySQL Based Project

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Project Purpose

- - To provide university teachers with easy access to students' academic data.
- - Simplify student selection, grade viewing, and average calculation.
- - Support academic follow-up through an intuitive interface.

Technologies Used

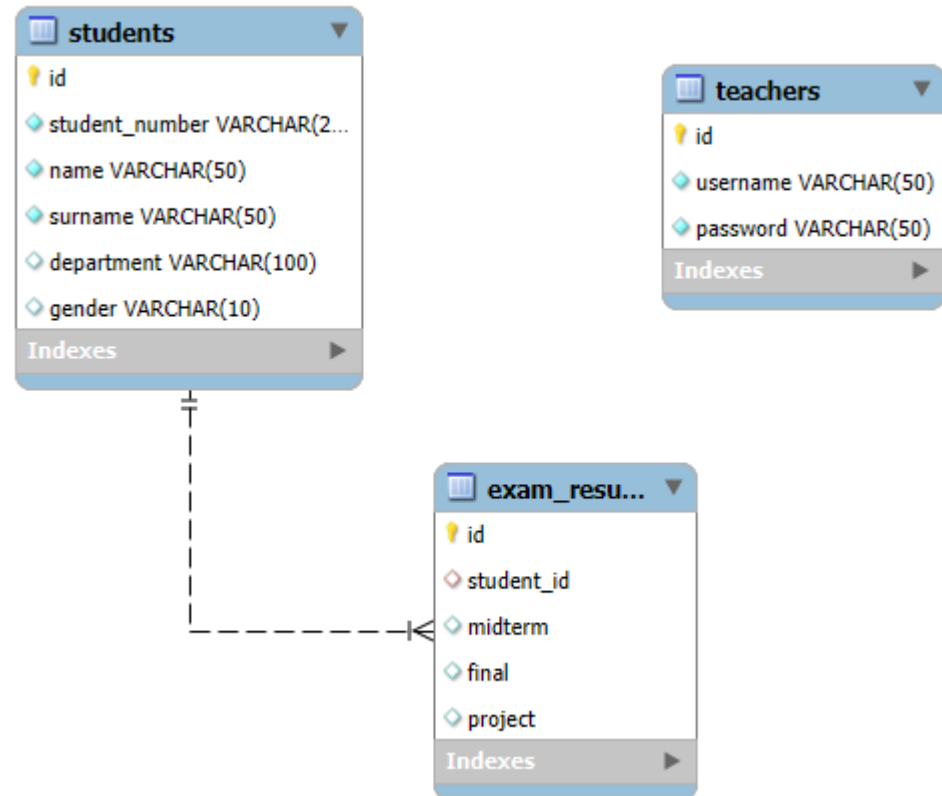
- - Programming Language: Java (NetBeans IDE)
- - Database: MySQL
- - Database Connectivity: JDBC
- - GUI Library: Java Swing

Database Design

Tables:

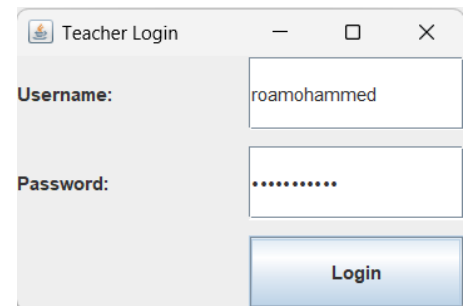
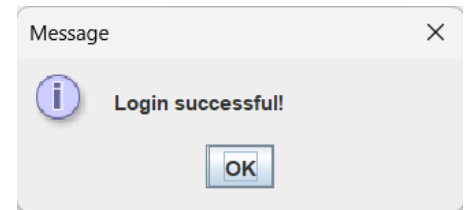
- - students (id, name, number, department, gender)
- - exam_results (id, student_id, midterm, final, project)
- Note: The student_id in the exam_results table will be taken as a reference from the id in the "students" table.

Erd Database

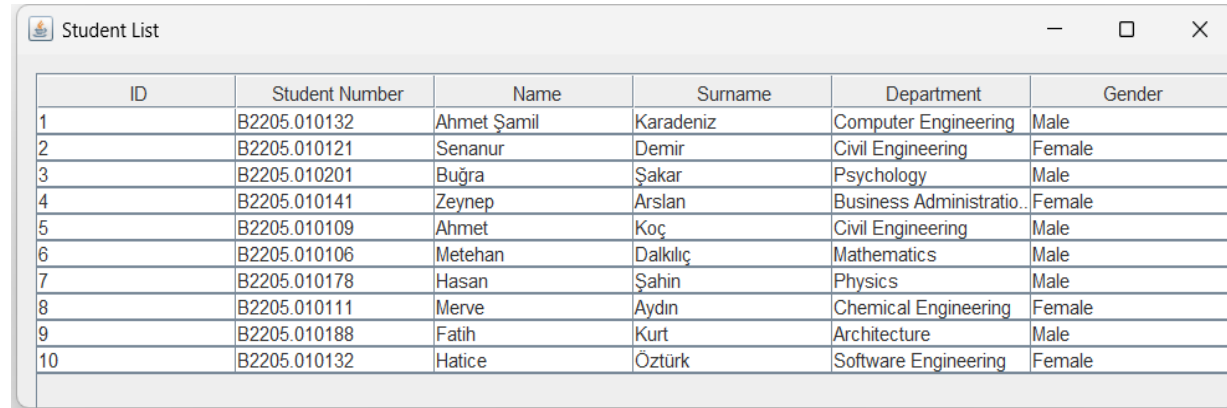


Login Screen

- - User authentication via username and password.
- - Restricted access for authorized teachers only.
- - Simple and user-friendly interface.



Main Interface & Student Information



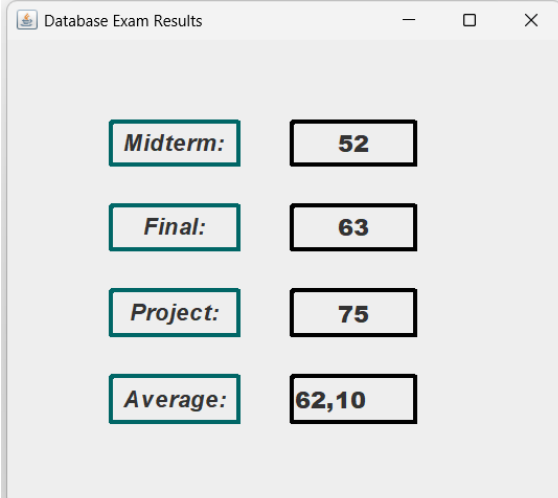
The screenshot shows a Java Swing window titled "Student List" with standard window controls (minimize, maximize, close). Inside the window is a JTable displaying a list of 10 students. The table has six columns: ID, Student Number, Name, Surname, Department, and Gender. The data is as follows:

ID	Student Number	Name	Surname	Department	Gender
1	B2205.010132	Ahmet Şamil	Karadeniz	Computer Engineering	Male
2	B2205.010121	Senanur	Demir	Civil Engineering	Female
3	B2205.010201	Buğra	Şakar	Psychology	Male
4	B2205.010141	Zeynep	Arslan	Business Administratio..	Female
5	B2205.010109	Ahmet	Koç	Civil Engineering	Male
6	B2205.010106	Metehan	Dalkılıç	Mathematics	Male
7	B2205.010178	Hasan	Şahin	Physics	Male
8	B2205.010111	Merve	Aydın	Chemical Engineering	Female
9	B2205.010188	Fatih	Kurt	Architecture	Male
10	B2205.010132	Hatice	Öztürk	Software Engineering	Female

- - Students displayed in a JTable component.
- - Selection of a student displays detailed info.
- - Allows efficient data browsing.

Exam Results and Average Calculation

- - Midterm, Final, and Project scores are shown.
- - Average = $(\text{Midterm} * 0.3) + (\text{Final} * 0.5) + (\text{Project} * 0.2)$
- - Calculated and displayed automatically.



A screenshot of a software window titled "Database Exam Results". The window displays a table of exam scores. The table has two columns: the first column contains labels for the exam components, and the second column contains their respective scores. The labels are "Midterm:", "Final:", "Project:", and "Average:". The scores are "52", "63", "75", and "62,10" respectively. The "Average:" label and its score "62,10" are bolded. The window has a standard title bar with a minimize button, a maximize button, and a close button.

Midterm:	52
Final:	63
Project:	75
Average:	62,10

Conclusion & Contributions

- - A foundational version of a real university teacher system.
- - Facilitates student tracking and grading processes.
- - Offers practical application of Java and SQL skills.



THANK YOU FOR LISTENING...