

Relational Database Management System

UniSync

by

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01

Overview

University Management System streamlining administrative, teaching, and learning processes. It offers dedicated panels for admins to manage users, courses, and payments, for teachers to organize student and course assignments, and for students to access their assigned teacher details.

Role of Relational Database

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- 01 Data Organization
 - 02 Data Integrity
 - 03 Data Retrieval
 - 04 Data Security

03

DATABASE FEATURES

- ◆ Centralized Login System
- ◆ Dynamic Relationships (Teacher Student mapping)
- ◆ Stores and retrieves informations
- ◆ Insert, Update, Delete data
- ◆ Data Integrity with Foreign Keys
- ◆ Efficient ID-Based Operations
- ◆ Role-Based Data Access

DATABASE FEATURES

- ◆ Status Tracking
- ◆ Date-Based Query Support
- ◆ Data Archival
- ◆ Active Enrollment Management

IMPLEMENTED FEATURES

- Sign up for : Admin,Student and Teacher
- Admin Pannel log in
- Add Students
- Add Teachers
- Add courses
- Add programs

Implementation Details

01. JavaFX

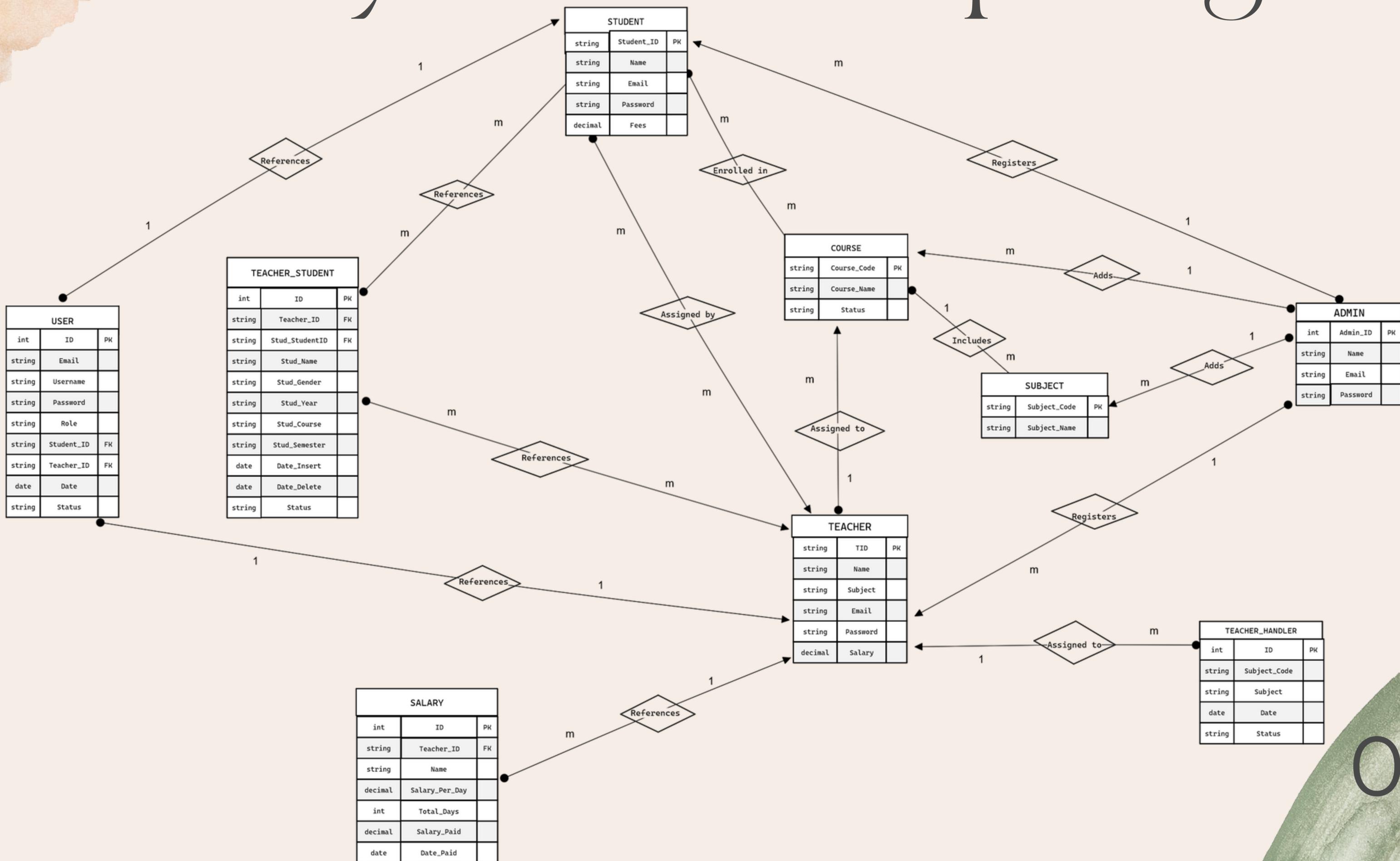
02. MySQL

03. JDBC

04. GITHUB

07

Entity–Relationship Diagram



DATABASE TABLES

The screenshot shows the MySQL Workbench interface with the 'university' database selected in the left sidebar. The sidebar also lists other databases: moviebook, mysql, performance_schema, phpmyadmin, posystem, test, and university1.

The main pane displays the table statistics for the 'university' database:

Table	Action	Rows	Type	Collation	Size	Overhead
course	Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_general_ci	32.0 KiB	-
student	Browse Structure Search Insert Empty Drop	6	InnoDB	utf8mb4_general_ci	32.0 KiB	-
subject	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	16.0 KiB	-
teacher	Browse Structure Search Insert Empty Drop	6	InnoDB	utf8mb4_general_ci	16.0 KiB	-
users	Browse Structure Search Insert Empty Drop	7	InnoDB	utf8mb4_general_ci	80.0 KiB	-

5 table(s) Sum

With selected:

Print Data dictionary

Create new table

Table name: Number of columns: Create

DEMONSTRATION