

Project Overview

Title: Architectural Firm Project Management System

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Objective

The primary objective of this project is to design and implement a database structure that effectively manages client information and meeting schedules for an architectural firm. The system facilitates the organization of client details and associated meetings, ensuring smooth operation and enhanced project management capabilities for the firm.

Database Design

The database, named `architectural_firm`, consists of two main tables: `Clients` and `Client_Meetings`, which are designed to store comprehensive details about the firm's clients and their respective meetings.

Tables and Fields

Clients Table: Stores essential information about clients, including a unique ID for each client, their first name, last name, and email address. The `id` field serves as the primary key, ensuring each client has a unique identifier.

Fields:

`id`: Unique identifier for each client (Primary Key, Auto-incremented)

`first_name`: Client's first name

`last_name`: Client's last name

`email`: Client's email address

Client_Meetings Table: Maintains records of meetings scheduled with clients, including details like the meeting date, time, location, purpose, and additional notes. A foreign key relationship with the `Clients` table links each meeting to a specific client.

Fields:

`meeting_id`: Unique identifier for each meeting (Primary Key, Auto-incremented)

`client_id`: Reference to the `id` in the `Clients` table (Foreign Key)

`meeting_date`: Date of the meeting

`meeting_time`: Time of the meeting

`location`: Location where the meeting is held

`purpose`: Purpose of the meeting

`notes`: Additional notes about the meeting

Database and Table Creation: The initial phase involves creating the architectural_firm database and defining the structure of the Clients and Client_Meetings tables, including setting up primary and foreign keys to establish relationships between clients and their meetings.

Data Management: The system supports comprehensive data management operations, including inserting new client records and meeting details, updating existing information, deleting records, and querying the database to retrieve information about scheduled meetings for specific clients.

Query Execution: A sample query demonstrates how to join the Clients and Client_Meetings tables to fetch detailed information about meetings scheduled with a particular client, showcasing the relational aspect of the database.

Conclusion

The Architectural Firm Project Management System is designed to streamline the management of client information and meeting schedules, providing a robust and efficient solution for architectural firms to enhance their project management processes. Through the use of relational database principles, the system ensures data integrity and provides the firm with the tools needed to manage client relationships and project timelines effectively.