

Summary

Welcome to our interior design firm, where we specialize in transforming spaces to **align** seamlessly with our **clients' visions** and **needs**. Our expertise spans across interior **decoration**, remodel planning, and comprehensive **project management** for both residential and commercial **spaces**.

Our dedicated team of designers **collaborates** closely with clients to **craft** aesthetically pleasing and functional **environments** tailored to each unique preference. We meticulously **keep track** of client **details** and **addresses**, **ensuring** that our talented **employees** are perfectly **matched** to each **project**.

In addition to providing design services, we **prioritize** efficient project **management**. Our employees can conveniently **log in** to **track** their **billing hours**, update **client information**, and **review** assigned projects. This systematic approach **ensures** seamless coordination and impeccable execution from concept to completion.

Database Rules Document

Clients - This entity holds the ClientID, name, and email of the clients.

Addresses - This entity holds an AddressID, address, and is linked to Clients via a foreign key (ClientID). This implies a one-to-many relationship where one client can have multiple addresses.

Employees - This entity stores information about the firm's employees, including EmployeeID, name, email, and billingRate.

Projects_Employees - This associative entity represents a many-to-many relationship between Projects and Employees. It contains EmployeeID (eID) and ProjectID (pID) as composite primary keys, indicating which employees are working on which projects.

Projects - This entity contains the ProjectID and name of the project. It also has a foreign key association (albeit, FK), which is not fully labeled in the diagram but could possibly represent a link to another entity like Clients or Addresses. Project can stand along without address

Database Outline:

Clients: *Records the information of clients that the firm does business with.*

- **clientID:** int, auto_increment, PK
- **name:** varchar (restriction: max 255 characters), not Null
- **email:** varchar (restriction: max 320 characters), not Null
- **Client address relationship:** a 1:M relationship between clients and addresses.

Addresses: *Records the details of the job at a specific address.*

- **addressID:** int, auto_increment, PK
- **address:** varchar (restriction: max 255 characters), not Null
- **cID:** int FK, not Null
- **Client relationship:** M:1 between addresses and a client
- **Project relationship:** 1:M between addresses and projects

Projects: *records the details of specific projects.*

- **projectID:** int, auto_increment, PK
- **name:** varchar (restriction: max 255 characters), not Null
- **aID:** int
- **Employees relationship:** M:M between projects and employees through junction table

Projects_Employees: used to facilitate M:M relationship between projects and employees.

- **projectEmployeeID:** int, auto_increment, PK
- **eID:** FK, not Null
- **pID:** FK, not Null

Employees: the employees of the design firm.

- **employeeID:** int, auto_increment, PK
- **name:** varchar (restriction: max 255 characters), not Null
- **email:** varchar (restriction: max 255 characters), not Null
- **billingRate:** int (restriction: max 255 int), not Null