Elegant Occasions Wedding Planning Database

Final Project Report

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Abstract

Elegant Occasions is a wedding planning agency that specializes in organizing and coordinating weddings for clients. The agency offers a range of services, including venue selection, catering, floral arrangements, photography, and entertainment. The objective of this project is to create a database system to manage client appointments and wedding details efficiently. All employees are consultants that handle multiple appointments involving clients and vendors. For things such as cake tastings, venue tours, menu approval, and approval of floral arrangements.

Introduction

The purpose of this database project is to give the wedding planning agency "Elegant Occasions' a detailed and efficient database to manage clients, client appointments, vendors, employees, and venues. The current database includes the appropriate tables for clients, client appointments, employees, venues, and wedding day details. Each table will be separated by relevant data. The following document will include the required business rules. A clear and normalized Entity relationship diagram. A table definition for the database, and a conclusion.

Business Requirements

The following business rules will be followed.

- Clients cannot have overlapping appointments.
- Each appointment must have at least one service associated with it.
- An appointment cannot be scheduled without an employee.
- Venues should have available capacity for the expected number of guests.

These rules have been addressed as follows.

- The appointments table has been designed to accept data in numerical form by id identification to reduce error. The appointments table will contain Client ID, employee ID venue ID, appointment date, and appointment time. It will also include a short description of the service and the location where the service is being provided. This allows for one employee to be assigned to one client and one service.

- The venues table addresses the last business rule by including the venue capacity for each venue allowing the venue to be included in the wedding details table to guarantee the right venue goes with the right client and capacity is available.

Entity Relationship Diagram

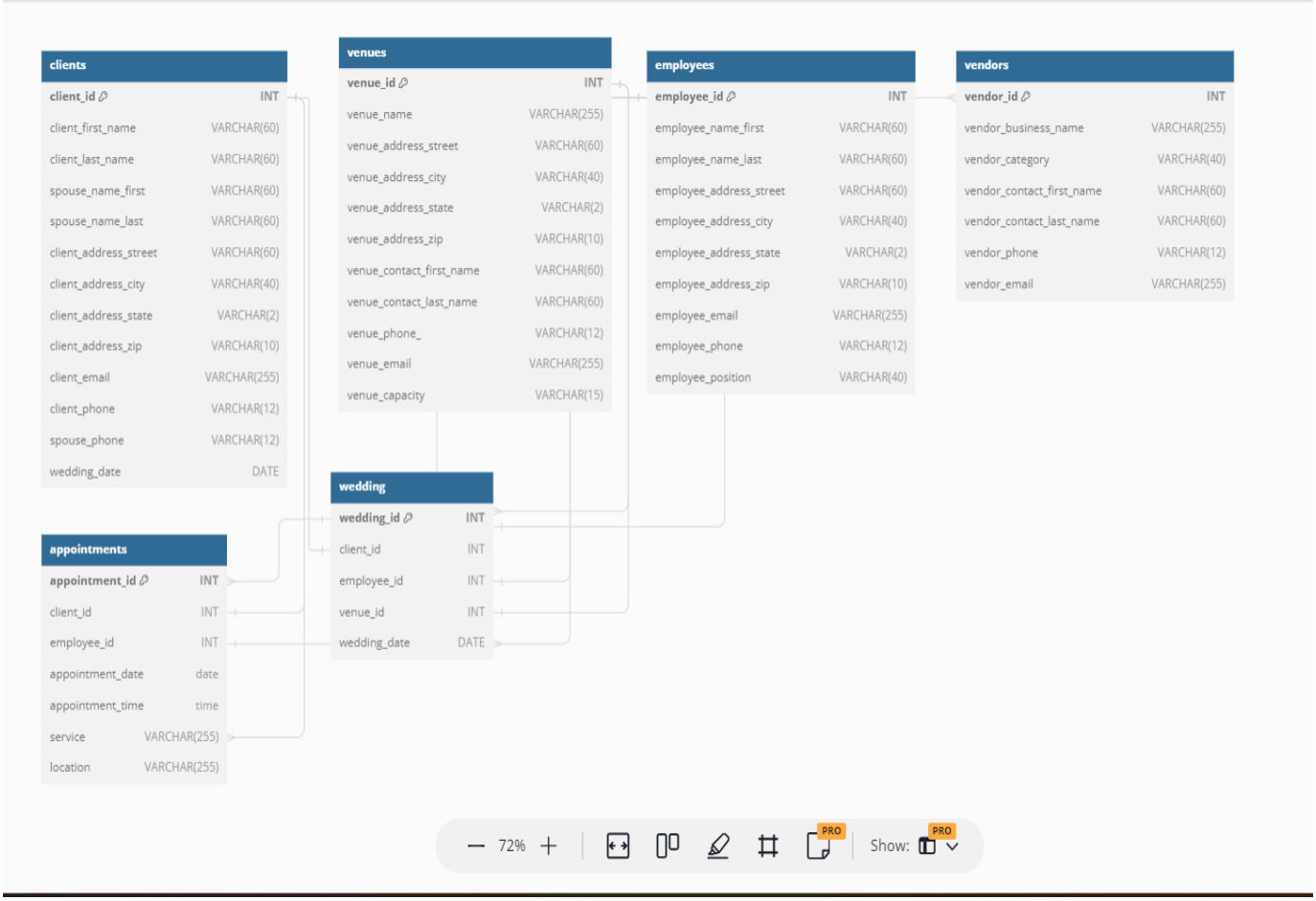

Table Definition

DATABASE TABLE	DESCRIPTION
Clients	The clients table contains all the contact information for the clients and the date of their wedding
Venues	Contains the name, and contact information for the available venues it also includes the max capacity
Employees	Includes all employees contact information and company position
Vendors	Includes business name and contact information. It also includes the category of service they provide.
Appointments	Streamlines the appointments and reduces error by having one client, one employee, one service, and one location per appointment.
Wedding	This table includes the details for the wedding day for easy accessibility by having the wedding details streamlined with id numbers. Each wedding table entry has one client matched with one employee and one venue for each wedding date.

FUNCTIONALITY

- The database design will allow employees to enter client details for appointments.
- Retrieve vendor contact information.
- Create appointments for clients and assign them to employees.
- View the details for each client's wedding to verify an employee has been assigned and what venue will hold the wedding.

Data Normalization

Data normalization has been achieved by breaking down most tables into single cell data. Such examples include separate cells for first names and last names. The addresses have been broken down into street, city, state, and zip in single cells. Each table has also been assigned an integer-based id number to reduce redundancy.

Conclusion

In conclusion the database has been prepared by utilizing an ERD, applying proper business rules, and by utilizing constraints such as foreign keys and data normalization to reduce redundancy. This will allow the employees and managers to enter and retrieve information in an efficient manner. With the tables already prepared Managers can use the wedding table to conduct research for the most common vendor used and venue selected to recommend in future appointments. Respectively the same can be used to reconsider vendors or venues that are not often used.

In addition to the tables already prepared the database could utilize the same client, vendor and venue ids to create accounts receivable and accounts payable tables for the accounting department. This database can be expanded with ease while utilizing the same tables and data already provided.