Project Summary Report:

Siraj Convection Center Wedding Planning Service:

Project Overview

The Wedding Planning Service database system is designed to manage key operations of a wedding planning business. The primary purpose of this system is to track customers, vendors, wedding events, service packages, bookings, and vendor assignments in an organized and relational format. The system supports efficient planning and coordination by storing critical information, enforcing data relationships, and ensuring data consistency across various entities involved in event planning. This project was built using Microsoft Access for initial table development and relationship design, and later implemented in MySQL Workbench for more robust database functionality and scalability. An ER diagram in Chen notation was used as the basis for identifying entities and designing table structures.

Features Built

o **Customer Management**: Stores customer details such as name, contact information, and address.

o **Vendor Management**: Manages vendors offering services such as catering, photography, decoration, etc., along with their contact info and service type. o **Event Tracking**: Records individual wedding events including date, venue, theme, guest count, and associated customer.

o **Package Management**: Maintains a catalog of wedding packages with details and pricing.

o **Booking System**: Links customers and events to specific packages and tracks booking details, including total cost.

o **Vendor Assignment**: Tracks which vendors are assigned to which events, along with associated service costs.

Development Process

o **Requirements Gathering**: Identified essential data to be captured from the perspective of real-world wedding planning operations.

o **ER Diagram Design**: Used Chen notation to map out entities and relationships, which helped form the database structure.

o **Access Table Development**: Created tables and sample records in MS Access. Relationships were visually established using Access's Relationship View.

o **MySQL Migration**: Recreated tables manually in MySQL Workbench using `CREATE TABLE` SQL scripts. Referential integrity was maintained through proper foreign key constraints.

o **Sample Data**: Populated each table with 5–10 example records for testing purposes.

o **Testing**: Performed basic queries and verified relationships and data consistency.

o **Referential Integrity Errors in Access**: A common error occurred during relationship setup in Access due to mismatched data types (AutoNumber vs. Number). This was resolved by manually verifying and aligning foreign key types with their primary counterparts.

o **Manual Migration to MySQL**: Since automatic export from Access to MySQL was limited, table creation and data population had to be manually redone using SQL scripts, which was time-consuming.

o **No Front-End Interface**: This project focused solely on the backend database structure. A future improvement would be building a user-friendly interface for easier data entry and reporting.

o **Limited Business Logic**: While the database enforces structural integrity, it lacks advanced features like automated notifications, scheduling conflicts checks, or dynamic reporting, which would enhance real-world usability.

Conclusion

This Wedding Planning Service database provides a solid foundation for managing essential operations of a wedding planning business. It supports clear data structure, relationship integrity, and scalability for future enhancements. While there were some technical challenges, especially during the migration and relationship-building phases, they were resolved with a deeper understanding of database design principles. This project showcases key concepts in relational

database design and prepares the groundwork for future development, including a front-end application or expanded reporting capabilities.