Martha's 'Mazin Catering
Logical Database Design Specification

CIS 250 – Fall 2017 –Final Project

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Introduction

Purpose

Mission Statement

The purpose of the Martha's 'Mazin Catering database is to maintain and provide the data needed to offer the best possible catering event experience.

Scope

Mission Objectives

- Maintain comprehensive event information.
- Maintain comprehensive customer information.
- Maintain comprehensive venue information.
- Maintain comprehensive menu information.
- Make sure that staff is not scheduled for more than one event during the same date and time.
- Maintain supply status.
- Make sure an event only has one theme.
- Make sure event attendance does not exceed venue capacity.

Background

Problem Statement

A small catering company has outgrown its current spreadsheet tracking system and wants a simple application that will help it keep track of the customers, venues, menu items, and staffing needs for the events they cater.

The application must keep track of all the event information including customer details, venue details, menu details, staff schedules, and supplies needed for the event.

Assumptions and Constraints

Functional Requirements

Stakeholders

Key Stakeholders and Roles

Martha Mazing, CEO and President
Betty Booker, Event Coordinator
Cherrie, Food Coordinator

End-User Data Collection Activities

Employees of Martha 'Mazing will collect customer contact information and details on what the customers want for their events. Event details should include theme and menu requests.

End-User Data Presentation Activities

System Interaction / Integration Requirements

Existing Databases

Logical Database Design

Table List

Table Name	Table Type	Table Description
Contract	Data	Detail on status of customer contract for one or more events.
Customer	Data	Details on past, present, and prospective customers. This information is needed to maintain contact with customers and for record keeping.
Diet Category	Validation	List of dietary category restrictions and allergies.
Diet Restriction Customer	Link	Dietary restrictions of a particular customer
Diet Restriction Event	Link	Dietary restrictions of an entire event.
Diet Restriction Venue	Link	Dietary restrictions of a venue.
Employee	Data	Information about staff that work at events. This information is needed to ensure appropriate staffing for events.
Employee Event	Link	Information that will help keep track of staff scheduled for every event.
Event	Data	Details of past, present and future events. Comprehensive information of events will help the business provide better personalized service to its customers.
Event Menu	Link	Menu items to be offered during an event.
Event Supply	Link	This will help keep track of how many supplies the catering company is using for specific events.
Menu Diet Category	Link	Diet Categories that a menu item may fall under.
Menu Item	Data	Details on food items that could be offered during an event.
Menu Item Theme	Link	Themes that a menu item may fall under.
Permit	Validation	A list of permits that may be required to cater an event.
Permit Event	Link	Permits required to host an event.
Permit Venue	Link	Permits required to use a venue.
Supply	Data	Details on what supplies and how many supplies the catering company has available for use at events.
Theme	Validation	List of themes available to choose from for events.
Vendor	Data	Details on industry partners who provide supplies needed for events.
Venue	Data	Details on locations where events will be held.

Table Structure Sheets

Table Structures and Data Fields

Contract (TableName: Contract)

Business Name	FieldName	Key	Data Type	Length	Format	NULL	Default Value	Description/Valid Values
Contract ID	ContractID	PK	Numeric	10	nnnnnnnnnn	No	None	Auto-assigned unique id used to identify a contract
Customer ID	CustomerID	FK	Numeric	10	nnnnnnnnnn	No	None	Reference to unique id used to identify a customer
Status	Status		String	8		No	Pending	Validated text, must be "Pending", "Inactive", or "Signed"

Customer (TableName: Customer)

Business Name	FieldName	Key	Data Type	Length	Format	NULL	Default Value	Description/Valid Values
Customer ID	CustomerID	PK	Numeric	10	nnnnnnnnnn	No	None	Auto-assigned unique id used to identify a customer
Customer Name	CustomerNameFirst		String	50		No	None	Free-form text; embedded spaces allowed
	CustomerNameLast		String	50		No	None	Free-form text; embedded spaces allowed
Customer ADA Requirement	CustomerADARequirement		Bit	1	Yes; No	No	No	Indicates whether or not the customer has a specific ADA requirement
Customer Phone Numbers	CustomerPhoneCell		String	12	nnn-nnn-nnnn	Yes	None	Customer cell phone number. Formatted string with embedded hyphens to be enforced on input and update
	CustomerPhoneHome		String	12	nnn-nnn-nnnn	Yes	None	Customer home phone number. Formatted string with embedded hyphens to be enforced on input and update
	CustomerPhoneWork		String	12	nnn-nnn-nnnn	Yes	None	Customer work phone number. Formatted string with embedded hyphens to be enforced on input and update
Customer Email Address	CustomerEmail		String	100		Yes	None	Email address with 1 or more characters for free form text, an @ symbol, 1 or more characters of free form text, a period, and 1 or more characters of free form text; embedded spaces are not allowed
Customer Address	CustomerStreetAddress		String	50		No	None	Free-form text; embedded spaces allowed
	CustomerCity		String	50		No	None	Free-form text; embedded spaces allowed
	CustomerState		Char	2	xx	No	WA	Valid US State Code – validate off State code lookup
	CustomerZIPCode		String	10	nnnnn-nnnn	No	None	Formatted string with first five-characters required, hyphen and following four-characters optional; format enforced on input and update

Diet Category (TableName: Diet Category)

Business Name	FieldName	Key	Data Type	Length	Format	NULL	Default Value	Description/Valid Values
Diet Category ID	DietCategoryID	PK	Numeric	10	nnnnnnnnn	No	None	Auto-assigned unique id used to identify a diet category
Diet Category Name	DietCategoryName		String	25		No	None	Free-form text; embedded spaces allowed
Diet Category Description	DietCategoryDescription		String	100		Yes	None	Free-form text; embedded spaces allowed

Diet Restriction Customer (TableName: Diet Restriction Customer)

Business Name	FieldName	Key	Data Type	Length	Format	NULL	Default Value	Description/Valid Values
Diet Category ID	DietCategoryID	PK, FK	Numeric	10	nnnnnnnnn	No	None	Reference to unique id used to identify a diet category
Customer ID	CustomerID	PK, FK	Numeric	10	nnnnnnnnn	No	None	Reference to unique id used to identify a customer

Diet Restriction Event (TableName: Diet Restriction Event)

Business Name	FieldName	Key	Data Type	Length	Format	NULL	Default Value	Description/Valid Values
Diet Category ID	DietCategoryID	PK, FK	Numeric	10	nnnnnnnnn	No	None	Reference to unique id used to identify a diet category
Event ID	EventID	PK, FK	Numeric	10	nnnnnnnnn	No	None	Reference to unique id used to identify an event

Diet Restriction Venue (TableName: Diet Restriction Venue)

Business Name	FieldName	Key	Data Type	Length	Format	NULL	Default Value	Description/Valid Values
Diet Category ID	DietCategoryID	PK, FK	Numeric	10	nnnnnnnnn	No	None	Reference to unique id used to identify a diet category
Venue ID	VenueID	PK, FK	Numeric	10	nnnnnnnnn	No	None	Reference to unique id used to identify a venue

Employee (TableName: Employee)

Business Name	FieldName	Key	Data Type	Length	Format	NULL	Default Value	Description/Valid Values
Employee ID	EmployeeID	PK	Numeric	10	nnnnnnnnnn	No	None	Auto-assigned unique id used to identify an employee
Employee Name	EmployeeNameFirst		String	50		No	None	Free-form text; embedded spaces allowed
	EmployeeNameLast		String	50		No	None	Free-form text; embedded spaces allowed
Employee Phone Numbers	EmployeePhoneCell		String	12	nnn-nnn-nnnn	Yes	None	Employee cell phone number. Formatted string with embedded hyphens to be enforced on input and update
	EmployeePhoneHome		String	12	nnn-nnn-nnnn	Yes	None	Employee home phone number. Formatted string with embedded hyphens to be enforced on input and update
Employee Email	EmployeeEmail		String	100		Yes	None	Email address with 1 or more characters for free form text, an @ symbol, 1 or more characters of free form text, a period, and 1 or mor characters of free form text; embedded spaces are not allowed

Employee Event (TableName: Employee Event)

Business Name	FieldName	Key	Data Type	Length	Format	NULL	Default Value	Description/Valid Values
Employee ID	EmployeeID	PK, FK	Numeric	10	nnnnnnnnnn	No	None	Reference to unique id used to identify an employee
Event ID	EventID	PK, FK	Numeric	10	nnnnnnnnnn	No	None	Reference to unique id used to identify an event
Employee Start Time	EmployeeStartTime		Datetime	8	hh:mm AM/PM	No	None	Time employee is scheduled to start work at event, can include travel time. Must be earlier than employee finish time.
Employee Finish Time	EmployeeFinishTime		Datetime	8	hh:mm AM/PM	No	None	Time employee is scheduled to end work at event, can include travel time. Must be later than employee start time.

Event (TableName: Event)

Business Name	FieldName	Key	Data Type	Length	Format	NULL	Default Value	Description/Valid Values
Event ID	EventID	PK	Numeric	10	nnnnnnnnnn	No	None	Auto-assigned unique id used to identify an event
Contract ID	ContractID	FK	Numeric	10	nnnnnnnnnn	No	None	Reference to unique id used to identify a contract
Venue ID	VenueID	FK	Numeric	10	nnnnnnnnnn	No	None	Reference to unique id used to identify a venue
Theme ID	ThemeID	FK	Numeric	10	nnnnnnnnnn	No	None	Reference to unique id used to identify a theme
Event Name	EventName		String	100		No	None	Free-form text; embedded spaces allowed
Event Number of Guests	EventNumberofGuests		Numeric	3	nnn	No	0	Number of guests scheduled to attend an event
Event Date	EventDate		Datetime	10	mm/dd/yyyy	Yes	NULL	Date event is scheduled to occur
Event Start Time	EventStartTime		Datetime	8	hh:mm AM/PM	Yes	None	Time event is scheduled to start
Event End Time	EventEndTime		Datetime	8	hh:mm AM/PM	Yes	None	Time event is scheduled to end. Event end time must be equal to or greater than the event start time.
Event Setup Hours	EventSetupHours		Numeric	2	nn	No	0	Number of hours estimated to setup an event
Event Breakdown Hours	EventBreakdownHours		Numeric	2	nn	No	0	Number of hours estimated to breakdown an event
Event Employee Count	EventEmployeeCount		Numeric	2	nn	No	0	Number of employees scheduled to work at an event

Event Menu (TableName: Event Menu)

Business Name	FieldName	Key	Data Type	Length	Format	NULL	Default Value	Description/Valid Values
Menu Item ID	MenuItemID	PK, FK	Numeric	10	nnnnnnnnnn	No	None	Reference to unique id used to identify a menu item
Event ID	EventID	PK, FK	Numeric	10	nnnnnnnnnn	No	None	Reference to unique id used to identify an event
Menu Name	MenuName		String	25		No	None	Name of list for group of menu items. Free-form text; embedded spaces allowed
Menu Type	MenuType		String	25		No	None	Name of type for list of group of menu items. Free-form text; embedded spaces allowed

Event Supply (TableName: Event Supply)

Business Name	FieldName	Key	Data Type	Length	Format	NULL	Default Value	Description/Valid Values
Supply Item ID	SupplyItemID	PK, FK	Numeric	10	nnnnnnnnnn	No	None	Reference to unique id used to identify a supply item
Event ID	EventID	PK, FK	Numeric	10	nnnnnnnnnn	No	None	Reference to unique id used to identify an event
Supply Item Quantity	SupplyItemQuantity		Numeric	4	nnnn	No	0	Count of supplies scheduled to be checked out for use at a specific event
Supply Item Date Checked-Out	SupplyItemDateCheckedOut		Datetime	10	mm/dd/yyyy	No	None	Date supplies are scheduled to be checked out for a specific event. Checked-out date must not be later than returned date.
Supply Item Date Returned	SupplyItemDateReturned		Datetime	10	mm/dd/yyyy	Yes	NULL	Date supplies are returned after being used at a specific event. Return date must be greater than checked-out date.

Menu Diet Category (TableName: Menu Diet Category)

Business Name	FieldName	Key	Data Type	Length	Format	NULL	Default Value	Description/Valid Values
Menu Item ID	MenuItemID	PK, FK	Numeric	10	nnnnnnnnnn	No	None	Reference to unique id used to identify a menu item
Diet Category ID	DietCategoryID	PK, FK	Numeric	10	nnnnnnnnnn	No	None	Reference to unique id used to identify a diet category

Menu Item (TableName: Menu Item)

Business Name	FieldName	Key	Data Type	Length	Format	NULL	Default Value	Description/Valid Values
Menu Item ID	MenuItemID	PK	Numeric	10	nnnnnnnnnn	No	None	Auto-assigned unique id used to identify a menu item
Menu Item Name	MenuItemName		String	25		No	None	Free-form text; embedded spaces allowed
Menu Item Description	MenuItemDescription		String	100		No	None	Free-form text; embedded spaces allowed
Menu Item Price Per Guest	MenuItemPricePerGuest		Decimal	3,2	zz0.00	No	0	Amount charged per guest

Menu Item Theme (TableName: Menu Item Theme)

Business Name	FieldName	Key	Data Type	Length	Format	NULL	Default Value	Description/Valid Values
Menu Item ID	MenuItemID	PK, FK	Numeric	10	nnnnnnnnnn	No	None	Reference to unique id used to identify a menu item
Theme ID	ThemeID	PK, FK	Numeric	10	nnnnnnnnnn	No	None	Reference to unique id used to identify a theme

Permit (TableName: Permit)

Business Name	FieldName	Key	Data Type	Length	Format	NULL	Default Value	Description/Valid Values
Permit ID	PermitID	PK	Numeric	10	nnnnnnnnnn	No	None	Auto-assigned unique id used to identify a permit
Permit Name	PermitName		String	100		No	None	Free-form text; embedded spaces allowed
Permit Description	PermitDescription		String	200		Yes	None	Free-form text; embedded spaces allowed

Permit Event (TableName: Permit Event)

Business Name	FieldName	Key	Data Type	Length	Format	NULL	Default Value	Description/Valid Values
Permit ID	PermitID	PK, FK	Numeric	10	nnnnnnnnnn	No	None	Reference to unique id used to identify a permit
Event ID	EventID	PK, FK	Numeric	10	nnnnnnnnnn	No	None	Reference to unique id used to identify an event
Permit Number	PermitNumber		String	100		No	None	Free-form text; embedded spaces allowed

Permit Venue (TableName: Permit Venue)

Business Name	FieldName	Key	Data Type	Length	Format	NULL	Default Value	Description/Valid Values
Permit ID	PermitID	PK, FK	Numeric	10	nnnnnnnnnn	No	None	Reference to unique id used to identify a permit
Venue ID	VenueID	PK, FK	Numeric	10	nnnnnnnnnn	No	None	Reference to unique id used to identify a venue
Permit Number	PermitNumber		String	100		No	None	Free-form text; embedded spaces allowed

Supply (TableName: Supply)

Business Name	FieldName	Key	Data Type	Length	Format	NULL	Default Value	Description/Valid Values
Supply Item ID	SupplyItemID	PK	Numeric	10	nnnnnnnnnn	No	None	Auto-assigned unique id used to identify a supply item
Vendor ID	VendorID	FK	Numeric	10	nnnnnnnnnn	No	None	Reference to unique id used to identify a vendor
Supply Item Type	SupplyItemType		String	25		No	None	Free-form text; embedded spaces allowed
Supply Item Name	SupplyItemName		String	50		No	None	Free-form text; embedded spaces allowed
Supply Item Description	SupplyItemDescription		String	25		No	None	Free-form text; embedded spaces allowed
Supply Item Quantity	SupplyItemQuantity		Numeric	4	nnnn	No	0	Count of supplies available for use at events
Supply Item Available	SupplyItemAvailable		Bit	1	Yes; No	No	No	Indicates whether or not the supplies are available for use at events

Theme (TableName: Theme)

Business Name	FieldName	Key	Data Type	Length	Format	NULL	Default Value	Description/Valid Values
Theme ID	ThemeID	PK	Numeric	10	nnnnnnnnn	No	None	Auto-assigned unique id used to identify a theme
Theme Name	ThemeName		String	50		No	None	Free-form text; embedded spaces allowed
Theme Description	ThemeDescription		String	100		No	None	Free-form text; embedded spaces allowed

Vendor (TableName: Vendor)

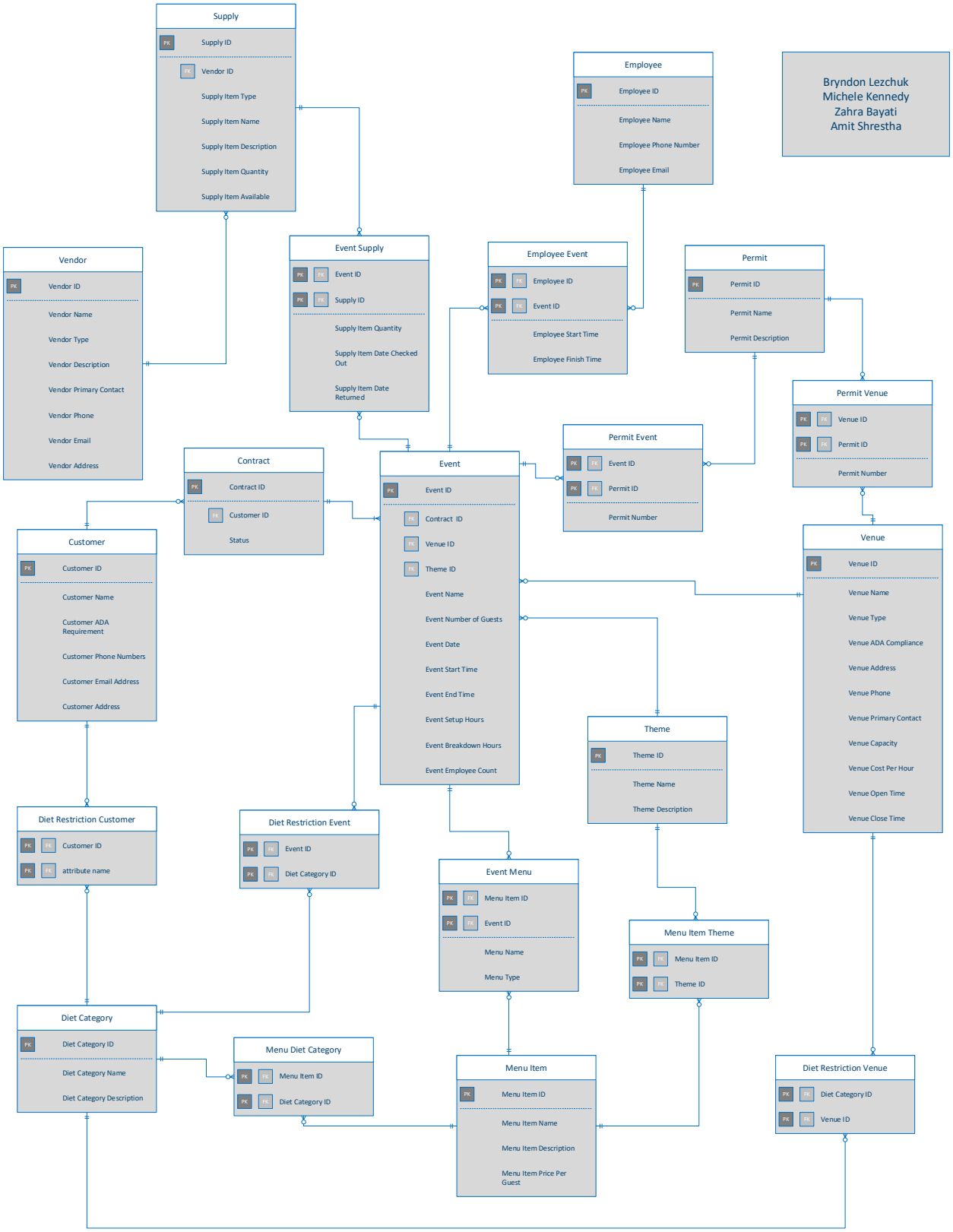
Business Name	FieldName	Key	Data Type	Length	Format	NULL	Default Value	Description/Valid Values
Vendor ID	VendorID	PK	Numeric	10	nnnnnnnnn	No	None	Auto-assigned unique id used to identify a vendor
Vendor Name	VendorName		String	100		No	None	Free-form text; embedded spaces allowed
Vendor Type	VendorType		String	25		No	None	Free-form text; embedded spaces allowed
Vendor Description	VendorDescription		String	200		No	None	Free-form text; embedded spaces allowed
Vendor Primary Contact	VendorPrimaryContact		String	100		Yes	None	Free-form text; embedded spaces allowed
Vendor Phone	VendorPhone		String	12	nnn-nnn-nnnn	No	None	Phone number for vendor. Formatted string with embedded hyphens to be enforced on input and update
Vendor Email	VendorEmail		String	100		Yes	None	Email address with 1 or more characters for free form text, an @ symbol, 1 or more characters of free form text, a period, and 1 or mor characters of free form text; embedded spaces are not allowed
Vendor Address	VendorStreetAddress		String	50		No	None	Free-form text; embedded spaces allowed
	VedorCity		String	50		No	None	Free-form text; embedded spaces allowed
	VedorState		Char	2	xx	No	WA	Valid US State Code – validate off State code lookup
	VendorZIPCode		String	10	nnnnn-nnnn	No	None	Formatted string with first five-characters required, hyphen and following four-characters optional; format enforced on input and update

Venue (TableName: Venue)

Business Name	FieldName	Key	Data Type	Length	Format	NULL	Default Value	Description/Valid Values
Venue ID	VenueID	PK	Numeric	10	nnnnnnnnn	No	None	Auto-assigned unique id used to identify a venue
Venue Name	VenueName		String	100		No	None	Free-form text; embedded spaces allowed
Venue Type	VenueType		String	12		No	Private	Validated text, must be "Public", "Members Only", or "Private"
Venue ADA Compliance	VenueADACompliance		Bit	1	Yes; No	No	No	Indicates whether or not the venue meets current ADA requirements
Venue Address	VenueStreetAddress		String	50		No	None	Free-form text; embedded spaces allowed
	VenueCity		String	50		No	None	Free-form text; embedded spaces allowed
	VenueState		Char	2	xx	No	WA	Valid US State Code – validate off State code lookup
	VenueZIPCode		String	10	nnnnn-nnnn	No	None	Formatted string with first five-characters required, hyphen and following four-characters optional; format enforced on input and update
Venue Phone	VenuePhone		String	12	nnn-nnn-nnnn	No	None	Phone number for venue. Formatted string with embedded hyphens to be enforced on input and update
Venue Primary Contact	VenuePrimaryContact		String	100		Yes	None	Free-form text; embedded spaces allowed
Venue Capacity	VenueCapacity		Numeric	5	nnnnn	No	0	Maximum number of people that can be in a specific venue. Includes guests and employees.
Venue Cost Per Hour	VenueCostPerHour		Decimal	5,2	zzzz0.00	YES	0	Default amount venue charges per hour for catering events
Venue Open Time	VenueOpenTime		Datetime	8	hh:mm AM/PM	Yes	NULL	Default time venue opens for events
Venue Close Time	VenueCloseTime		Datetime	8	hh:mm AM/PM	Yes	NULL	Default time venue closes for events

Calculated Field List

Logical Data Model Diagram



Business Rule Specifications

Table(s)	EVENT, CONTRACT
Field(s)	CONTRACT ID
Statement	Each Event must have one and only one Contract
Constraint	
Database or Application Oriented	Database
Field or Relationship Specific	Relationship
Trigger	OnCreate, OnUpdate, OnDelete
Action Taken	CONTRACT ID field in EVENT table is required and must exist in CONTRACT table

Table(s)	EVENT, THEME
Field(s)	THEME ID
Statement	Each Event must have one and only one Theme
Constraint	
Database or Application Oriented	Database
Field or Relationship Specific	Relationship
Trigger	OnCreate, OnUpdate
Action Taken	THEME ID field in EVENT table is required and must exist in THEME table

Table(s)	EVENT, VENUE
Field(s)	VENUE ID
Statement	Each Event must have one and only one Venue
Constraint	
Database or Application Oriented	Database
Field or Relationship Specific	Relationship
Trigger	OnCreate, OnUpdate
Action Taken	VENUE ID field in EVENT table is required and must exist in VENUE table

Table(s)	EVENT, MENU ITEM
Field(s)	MENU ITEM ID
Statement	Each Event must have one or more Menu Items
Constraint	
Database or Application Oriented	Database
Field or Relationship Specific	Relationship
Trigger	OnCreate, OnUpdate
Action Taken	MENU ITEM ID field in EVENT table is required and must exist in MENU ITEM table

Table(s)	EVENT
Field(s)	EVENT START TIME, EVENT END TIME
Statement	Each Event must have Start Time and End Time
Constraint	
Database or Application Oriented	Database
Field or Relationship Specific	Field
Trigger	OnCreate, OnUpdate
Action Taken	EVENT START TIME, EVENT END TIME fields in EVENT table are required and may not be NULL

View Specifications

Name	Available Venue
Data, Aggregate, or Validation	Validation
Description	This view provides a list of venues that are not set to Private as private venues are not available for most customers.
Base Table(s)	VENUE
Calculated Field(s)	N/A
Filters	VENUE TYPE = "Public" or "Members Only"
Visible Field(s)	

Name	Pending Contract
Data, Aggregate, or Validation	Aggregate
Description	This view provides a list of contracts that are set to a status of Pending. This information is used to follow-up with customers who have not signed their event contracts.
Base Table(s)	CUSTOMER, CONTRACT, EVENT
Calculated Field(s)	N/A
Filters	STATUS = "Pending"
Visible Field(s)	From CUSTOMER: CUSTOMER ID, NAME, PHONE NUMBER, EMAIL From EVENT: EVENT ID, EVENT NAME

Implementation and Deployment Requirements

Data Conversion Requirements

Hardware / Software Requirements

Operational Requirements

Security and Privacy

Capacity

Data Retention

Conventions / Standards

Test Plan

End User Testing

Condition	Description	Table.Field
Pending Contract View	Only contracts with a STATUS of "Pending" should be visible.	CONTRACT.STATUS

Steps	Test Data	Test Sequence	Expected Result
1	15 test records: 5 records set to PENDING 5 records set to INACTIVE 5 records set to SIGNED	View initial test data	5 records visible.
2	15 test records: 0 records set to PENDING 10 records set to INACTIVE 5 records set to SIGNED	Change status of records with PENDING status to INACTIVE	0 records visible.
3	15 test records: 10 records set to PENDING 0 records set to INACTIVE 5 records set to SIGNED	Change status of records with INACTIVE status to PENDING	10 records visible.
4	15 test records: 7 records set to PENDING 0 records set to INACTIVE 8 records set to SIGNED	Change status of 3 records with PENDING status to SIGNED	7 records visible.

Condition	Description	Table.Field
Available Venue View	Venues with a VENUE TYPE of "Private" should be not be' visible.	VENUE.VENUE TYPE

Steps	Test Data	Test Sequence	Expected Result
1	6 test records: 2 records set to PRIVATE 2 records set to PUBLIC 2 records set to MEMBERS ONLY	View initial test data	4 records visible.
2	6 test records: 0 records set to PRIVATE 4 records set to PUBLIC 2 records set to MEMBERS ONLY	Change venue type of records with PRIVATE type to PUBLIC	6 records visible.
3	6 test records: 0 records set to PRIVATE 0 records set to PUBLIC 6 records set to MEMBERS ONLY	Change venue type of records with PUBLIC type to MEMBERS ONLY	6 records visible.
4	6 test records: 3 records set to PRIVATE 0 records set to PUBLIC 3 records set to MEMBERS ONLY	Change venue type of 3 records with MEMBERS ONLY type to PRIVATE	3 records visible.

Data Integrity Testing

Condition	Description	Table.Field
Required Contract Rule	Each Event must have one and only one Contract.	EVENT.CONTRACT ID CONRACT.CONTRACT ID

Steps	Test Data	Test Sequence	Expected Result
1	Test data for Events and Contracts	Add data for 2 Contracts	No error
2		Add data for 2 Events, using Contract ID previously added to Contracts	No error
3		Add data for 1 Event, using Contract ID that doesn't exist in Contracts	Fail
4		Update Contract ID for 1 Event, using Contract ID that was previously added to Contracts	No error
5		Update Contract ID for 1 Event, using Contract ID doesn't exist in Contracts	Fail
6		Delete Contract ID in Contracts for that has been added to an Event	Fail

Data Conversion Testing

Data Delivery Testing

Performance Testing