Business Template

SUBJECT AREAS

Logo / Image

CONTENTS

1 BUSINESS DESCRIPTION

1.1 BUSINESS BACKGROUND

Nowadays museums are widespread in different big cities for cultural convenience of people living there. It is affordable and easy way to witness art and ancient relics.

1.2 PROBLEMS. CURRENT SITUATION

Currently we have a museum without a coordinated database.

1.3 THE BENEFITS OF IMPLEMENTING A DATABASE. PROJECT VISION

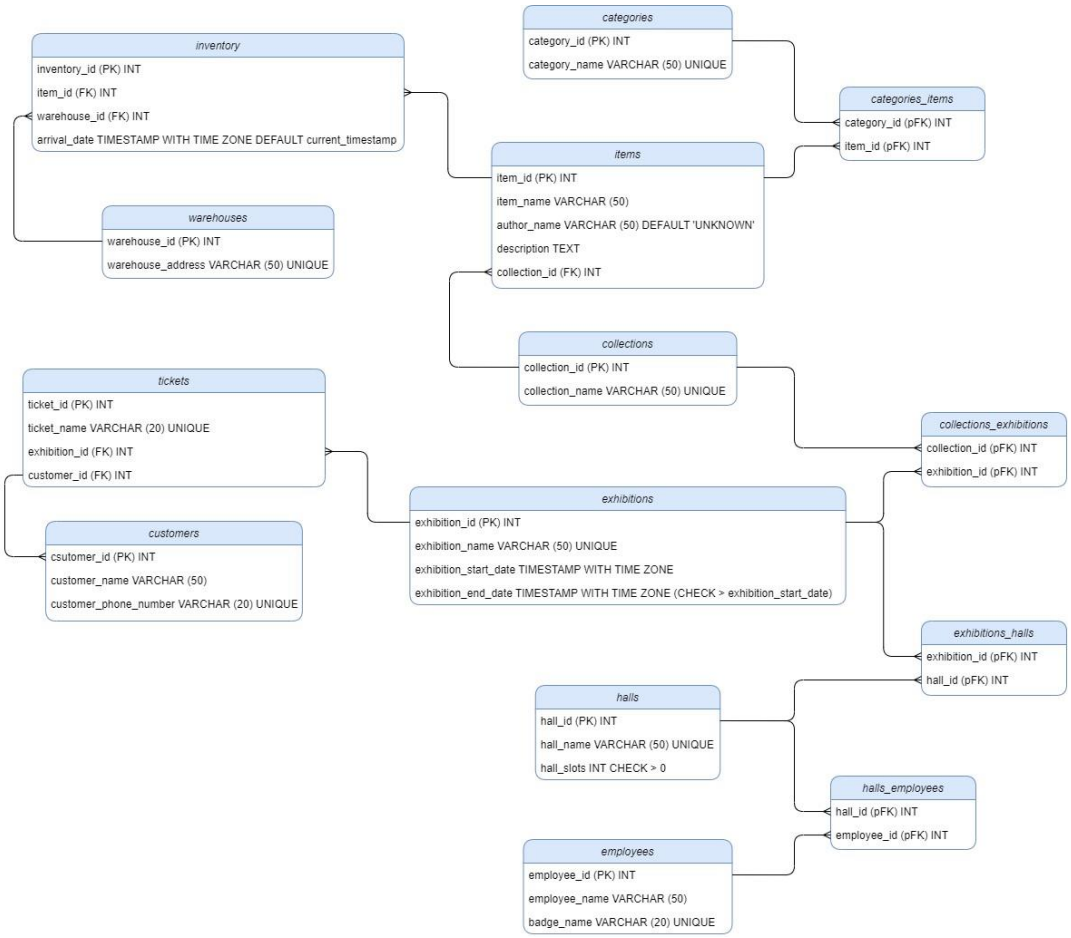
Benefits of implementing database structure to our museum are fundamental. It will help store great amount of data and operate or analyze it with ease.

2 MODEL DESCRIPTION

2.1 DEFINITIONS & ACRONYMS

None

2.2 LOGICAL SCHEME



2.3 OBJECTS

Table Categories

This table contains basic required information about categories of items in our museum.

Table Name	Field name	Field Description	Data Type
categories	category_id	Unique category Identifier, Primary Key, Autoincrement	Int
	category_name	Name of the category	VARCHAR (50)

Example with data:

category_id	category_name
1	ARTIFACTS

Table Items

This table contains basic required information about items of our museum.

Table Name	Field name	Field Description	Data Type
items	item_id	Unique item Identifier, Primary Key, Autoincrement	Int
	item_name	Name of the item	VARCHAR (50)
	author_name	Name of the author / inventor	VARCHAR (50)
	description	Brief description of item	TEXT
	collection_id	Foreign key, referencing collection table	Int

Example with data:

item_id	item_name	author_name	description	collection_id
1	SARCOPHAGUS	UNKNOWN	USED TO BURY LEADERS AND WEALTHY RESIDENTS	2

Table Inventory

This table contains basic required information about where each item is stored and when it was gained by or for the museum.

Table Name	Field name	Field Description	Data Type
inventory	inventory_id	Unique inventory Identifier, Primary Key, Autoincrement	Int
	item_id	Foreign key referencing items table	Int
	warehouse_id	Foreign key referencing warehouse table	Int
	arrival_date	Time, when this particular item was brought to the warehouse	timestamptz

Example with data:

inventory_id	item_id	warehouse_id	arrival_date
1	1	1	2024-05-21 13:28:22 +0400

Table Warehouses

This table contains basic required information about warehouses in our museum.

Table Name	Field name	Field Description	Data Type
warehouses	warehouse_id	Unique warehouse Identifier, Primary Key, Autoincrement	Int
	warehouse_address	Address of warehouse	VARCHAR (50)

Example with data:

warehouse_id	warehouse_address
1	MYSQL AVENUE 1

Table Collections

This table contains basic required information about collections of items in our museum.

Table Name	Field name	Field Description	Data Type
collections	collection_id	Unique collection Identifier, Primary Key, Autoincrement	Int
	collection_name	Name of the collection	VARCHAR (50)

Example with data:

collection_id	collection_name
1	ANCIENT GREECE

Table Exhibitions

This table contains basic required information about exhibitions held in our museum.

Table Name	Field name	Field Description	Data Type
exhibitions	exhibition_id	Unique exhibition Identifier, Primary Key, Autoincrement	Int
	exhibition_name	Name of the exhibition	VARCHAR (50)
	exhibition_start_date	Time when exhibition starts	timestamptz
	exhibition_end_date	Time when exhibition ends	timestamptz

Example with data:

exhibition_id	exhibition_name	Exhibition_start_date	Exhibition_end_date
1	EOA2024	2024-05-21 18:00:00 +0400	2024-05-30 23:00:00 +0400

Table Tickets

This table contains basic required information about tickets for visiting exhibitions in our museum.

Table Name	Field name	Field Description	Data Type
tickets	ticket_id	Unique ticket Identifier, Primary Key, Autoincrement	Int
	ticket_name	Name of the ticket	VARCHAR (50)
	exhibition_id	Foreign key, referencing table exhibitions	Int
	customer_id	Foreign key, referencing table customers	Int

Example with data:

ticket_id	ticket_name	exhibition_id	customer_id
1	OT11U2	1	2

Table Customers

This table contains basic required information about customers of our museum's exhibitions.

Table Name	Field name	Field Description	Data Type
customers	customer_id	Unique customer Identifier, Primary Key, Autoincrement	Int
	customer_name	Name of the customer	VARCHAR (50)
	customer_phone_number	Phone number of the customer	VARCHAR (20)

Example with data:

customer_id	customer_name	customer_phone_number
1	JOHN DOE	+599115566

Table Halls

This table contains basic required information about halls that are available in our museum for exhibitions.

Table Name	Field name	Field Description	Data Type
halls	hall_id	Unique hall Identifier, Primary Key, Autoincrement	Int
	hall_name	Name of the hall	VARCHAR (50)
	hall_slots	Slots available for representation of items in this current hall	Int

Example with data:

hall_id	hall_name	hall_slots
1	BALL HALL	131

Table Employees

This table contains basic required information about employees of our museum's exhibitions.

Table Name	Field name	Field Description	Data Type
employees	employee_id	Unique employee Identifier, Primary Key, Autoincrement	Int
	employee_name	Name of the employee	VARCHAR (50)
	badge_name	Unique badge name of employee	VARCHAR (20)

Example with data:

employee_id	employee_name	bagde_name
1	RICK RUST	00012

Table Categories_Items

Many-to-many table for creating connection between categories and items in order to follow 3NF of database.

Table Name	Field name	Field Description	Data Type
categories_items	category_id	Primary Foreign Key, referencing categories table	Int
	item_id	Primary Foreign Key, referencing items table	Int

Example with data:

category_id	item_id
1	1
1	2

Table Collections_Exhibitions

Many-to-many table for creating connection between collections and exhibitions in order to follow 3NF of database.

Table Name	Field name	Field Description	Data Type
collections_exhibitions	collection_id	Primary Foreign Key, referencing collections table	Int
	exhibition_id	Primary Foreign Key, referencing exhibitions table	Int

Example with data:

collection_id	exhibition_id
1	1
1	2

Table Exhibitions_Halls

Many-to-many table for creating connection between exhibitions and halls in order to follow 3NF of database.

Table Name	Field name	Field Description	Data Type
exhibitions_halls	exhibition_id	Primary Foreign Key, referencing exhibitions table	Int
	hall_id	Primary Foreign Key, referencing halls table	Int

Example with data:

exhibition_id	hall_id
1	1
1	2

Table Halls_Employees

Many-to-many table for creating connection between halls and employees in order to follow 3NF of database.

Table Name	Field name	Field Description	Data Type
halls_employees	hall_id	Primary Foreign Key, referencing halls table	Int
	employee_id	Primary Foreign Key, referencing employee table	Int

Example with data:

hall_id	employee_id
1	1
1	2