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Note: The following format is utilized to illustrate the entities and descriptive information.

Entity Name

FieldDesignator   Type   Size

Definition

1   Employee Table

Employee Number (Primary Key)

EmployeeID   Integer (Auto-Generate)   9

Required - The employee identification number is generated by the system with the first four digits representing the year and the last five digits being a sequential counter starting from 0. An example of the employee ID being 01300001.

Name Prefix (optional)

NamePrefix   Character   4

Optional – Employee title. The domain for this entity is Dr., Mr., Mrs., Miss., Ms.

Employee First Name

FirstName   Character   30

Required – First name of employee.

Employee Last Name

LastName   Character   30

Required – Last name of employee.

Employee Date of Birth

DateOfBirth   Character   8

Required – Date of birth of employee.

Employee Position

Position   Character   25

Required – Acknowledgement of whether employee is a staff of the organization. The domain for this entity is optional.

2   Customer Table

Customer Number (Primary Key)

CustomerID   Integer (Auto-Generate)   10

Required - The customer identification number is generated by the system with the first two digits representing the month and the last five digits being a sequential counter starting from 1. An example of the CustomerID being 1300001225.

Customer FirstName

FirstName   Character   30

Required – First name of customer.

Customer Last Name

LastName   Character   30

Required – Last name of customer.

Customer Date of Birth

DateOfBirth   Character   8

Required – Date of birth of customer.

Customer Address

StreetNumber   Character   9

Required – Street number of customer. If street number contains fraction, the fraction should be preceded by a space. If street number contains alphabetic characters, there should not be a space between the number and the letter.

Street Prefix

StreetPrefix   Character   2

Optional – Street prefix of customer. The domain for this entity is N, S, E, W, NE, NW, SE, SW.

Street Name

StreetName   Character   100

Required – The street name of the customer.

Street Type

StreetType   Character   5

Required – The street type of the customer abbreviated based on United States Postal Service - Postal Addressing Standards, Publication 28.

Street Suffix

StreetSuffix   Character   2

Optional – Street suffix of customer. The domain for this entity is N, S, E, W, NE, NW, SE, SW.

City

City   Character   30

Required – The city of the customer. Lookup, auto-generated based on the zip code.

State

State   Character   2

Required – The state of the customer. Look-up, auto-generated based on the zip code.

Zip+4

ZipCode   Character   9

Required – The zip+4 code of the customer validated against national/international list entered without dash.

Country

Country   Character   2

Optional – The country of origin of the customer validated against international abbreviations list.

Employee Phone

Phone   Character   15

Required – Phone number of employee entered without parentheses or dash.

Employee Email

Email   Character   100

Required – Email of customer required for validation and authentications.

3   Item Table

Item Number (Primary Key)

ItemID   Integer (Auto-Generate)   15

Required - The item identification number is generated by the system with the first 8 digits representing the date and the last 7 digits being a sequential counter starting from 2. An example of the Item ID being 040820242521225.

Item Name

Name   Character   30

Required – Item name should be mentioned.

Item Description

Description   Text   100

Item Price

Price   Decimal   10

Is Available

Available   Boolean

Required: mandatory domain (Yes/No)

Item Image URL

URL   Character   150

Optional

4) Menu Table

Menu Number (Primary Key)

MenuID   Integer (Auto-Generate)   10

Required - The menu identification number is generated by the system with the first two digits representing the month and the last eight digits being a sequential counter starting from 1. An example of the menu ID being 1130000001.

Menu Name

MenuName   Character   25

Required – All menu on the list must have a name.

Menu Description

MenuDescription   TEXT   100

Optional– A shot sentence describing the menu.

Menu Image URL

MenuImageUrl   Optional   10

Optional – A link attached to the menu image.

Item Number (Foreign Key)
ItemID   Integer (Auto-Generate)   15

Required - The item number identification number is a sequential number generated by the application beginning with zero (0). 040820242521225.

5   Order Table

Order Number (Primary Key)

OrderID   Integer (Auto-Generate)   9

Required - The order identification number is generated by the system with the first four digits representing the year and the last five digits being a sequential counter starting from one (1) An example of the employee ID being 130000101.

Customer Number (Foreign Key)
CustomerID   Integer (Auto-Generate)   10

Required - The customer identification number is a sequential number generated by the system beginning with one (1). 1300001225

Order Date

OrderDate   Date   8

Required – Date in which the order was processed.

Order Time

OrderTime   Date   8

Required – Time in which the order was processed.

Order Amount

OrderAmount   Decimal   10

Required: The amount total amount is summarized by the system.

Employee Number (Foreign Key)
EmployeeID   Integer (Auto-Generate)   9

Required - Employee identification number is a sequential number generated by the system beginning with one (0). 01300001

Payment Number (Foreign Key)

PaymentD   Integer (Auto-Generate)   10

Required - The payment Identification number is a sequential number generated by the system beginning with one (1). 1300001225

6) Payment Table

Payment Number (Primary Key)

PaymentID   Integer (Auto-Generate)   9

Required - The payment identification number is generated by the system with the first four digits representing the year and the last five digits being a sequential counter starting from one (1) An example of the payment ID is 130000101.

CustomerID   (Foreign Key)   Integer (Auto-Generate)   10

Required - The customer identification number is a sequential number generated by the system beginning with one (1). 1300001225

Payment Amount

Payment Amount   Decimal   10
Required: The payment amount is indicated by the system

Payment Method

PaymentMethod   Character   30

Required: Indicate mode of payment

Payment Status

PaymentStatus   Character   20

Required: Indicate status of payment with mandatory domain (Successful or Fail)

Payment Date

PaymentDate   Date   N/A

7) Delivery Table

Delivery Number (Primary Key)

DeliveryID   Integer (Auto-Generate)   10

Required - The delivery identification number is generated by the system with the first four digits representing the year and the last five digits being a sequential counter starting from one (1) An example of the payment ID is 130000101.

Delivery Status

DeliveryStatus   Character   20

Required: The delivery status is displace by the system with a mandatory domain of (Delivered or Returned)

Order Numeber (Foreign Key)

Order ID   Integer   9
Required: The order identification number is a sequential number generated by the system beginning with one (1). 1300001225

Street Number

StreetNumber   Character   9

Required – Street number of customer. If street number contains fraction, the fraction should be preceded by a space. If street number contains alphabetic characters, there should not be a space between the number and the letter.

Street Prefix

StreetPrefix   Character   2

Optional – Street prefix of customer. The domain for this entity is N, S, E, W, NE, NW, SE, SW.

Street Name

StreetName   Character   100

Required – The street name of the customer.

Street Type

StreetType   Character   5

Required – The street type of the customer abbreviated based on United States Postal Service - Postal Addressing Standards, Publication 28.

Street Suffix

StreetSuffix   Character   2

Optional – Street suffix of customer. The domain for this entity is N, S, E, W, NE, NW, SE, SW.

City

City   Character   30

Required – The city of the customer. Lookup, auto-generated based on the zip code.

State

State   Character   2

Required – The state of the customer. Look-up, auto-generated based on the zip code.

Zip+4

ZipCode   Character   9

Required – The zip+4 code of the customer validated against national/international list entered without dash.

Country

Country   Character   2

Optional – The country of origin of the customer validated against international abbreviations list.

8) Order Has Items Table

OrderHasItems Number (Primary Key)

OrderHasItemsID   Integer (Auto-Generate)   5

Required - The Order identification number is generated by the system with the first two digits representing the month and the last 3 digits being a sequential counter starting from 0. An example of the Item ID being 040123

Order ID (Foreign Key)

Order ID   Integer   9
Required: The order identification number is a sequential number generated by the system beginning with one (1). 1300001225

Item ID (Foreign Key)
ItemID   Integer (Auto-Generate)   15

Required - The item number identification number is a sequential number generated by the application beginning with zero (0). 040820242521225.

Quantity

Quantity   INTEGER

Required: The system indicates the quantity of items found in the order.