Sweet Karoline's Cake's Data Dictionary

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Contents

Introduction:

This document serves as the Database Dictionary for Sweet Karoline's Cakes. Each table in the database is listed below with information regarding each attributes type, size, and description.

1 Account

After an account has been created, guest or customer account, information will be stored in this table.

Columns

Column	Type	Size in Bytes	Allow Nulls	Description
AccountID	Int	1	N	Primary key. Always unique
Type	Bit	.125	N	Type of account[1]
First	Char(30)	30	N	Account holder's first name
Last	Char(30)	30	N	Account holder's last name
AddressID	Int	1	N	Foreign key to Addresses.AddressID
Phone	Char(10)	10	N	Account holder's phone number
Email	VarChar(64)	64	N	Account holder's email address
DateOpened	DateTime	8	Y	Account date of opening
DOB	DateTime	8	Y	Account holder's date of birth
AllowContact	Bit	.125	N	Status of allowing promotional contact[2]

[1] Type Values

Value	Constant Name	Description
0	CUSTOMER_ACCOUNT	Customer created an account
1	GUEST_ACCOUNT	Customer using guest checkout, who opted not to create a customer account

[2] AllowContact Values

Value	Constant Name	Description
0	ALLOW_CONTACT	Customer has opted to allow promotional contact via information on file
1	NO_CONTACT	Customer has opted not to receive promotional contact

Maximum data (size) per entry/entity: 153 Bytes

2 Addresses

Addresses for an account are stored in this table

Columns

Column	Type	Size in Bytes	Allow Nulls	Description
AddressID	Int	1	N	Primary key. Always unique
Type	Int	1	N	Denotes Address Type[1]
Street1	Char(30)	30	N	First line of address
Street2	Char(30)	30	Y	Second line of address (often blank)
City	VarChar(25)	25	N	Address city
State	Char(2)	2	N	Address state abbreviation
ZipCode	Char(10)	10	N	Address zip / postal code

[1] Type Values

Value	Constant Name	Description
0	CUSTOMER_ADDRESS	Customer address
1	SHIP_AND_BILL_ADDRESS	Customer address to ship and bill product to
2	SHIPPING_ADDRESS	Customer address to ship product to
3	BILLING_ADDRESS	Customer address to bill product to

Maximum data (size) per entry/entity: 99 Bytes

3 Order

Order information will be stored in this table.

Columns

Column	Type	Size in Bytes	Allow Nulls	Description
OrderID	Int	1	N	Primary key. Always unique
AccountID	Int	1	N	Foreign key to Account.AccountID
OrderDate	DateTime	8	N	Date order was completed
CompleteByDate	DateTime	8	Y	Specified date that order must be completed by, noted by customer
AdditionalComments	Text	3,000	Y	Additional test by customer
DeliveryType	Int	1	N	Type of delivery specified by customer[1]
OrderTotal	Money	4	N	Total amount of order
SaveOrder	Bit	.125	N	Save Order for future use[2]
Completed	Bit	.125	N	Status of Order[3]

[1] DeliveryType Values

Value	Constant Name	Description
0	PICKUP	Customer will pick up product
1	SHIPPING	Customer selected to have product shipped/delivered to specified address
2	OTHER	Customer has other delivery type, see AdditionalComments

[2] SaveOrder Values

Value	Constant Name	Description
0	NOSAVE	Default value, do not save
1	SAVE	Save order for future use

[3] Completed Values

Value	Constant Name	Description
0	ORDER_NOT_COMPLETED	Customer order has not been completed and is in-progress
1	ORDER_COMPLETED	Customer order has been completed or canceled

Maximum data (size) per entry/entity: 3,024 Bytes

4 Item

Item information will be stored in this table. Items may be predetermined or custom

Columns

Column	Type	Size in Bytes	Allow Nulls	Description
ItemID	Int	1	N	Primary key. Always unique
Type	Int	1	N	Type of item[1]
ItemType	Char(75)	75	Y	Specific item type (i.e. Sheet Cake, Sugar Cookie, etc.)
Quantity	Int	1	N	Quantity of item
Flavor	Char(70)	70	Y	Flavor of Item
Filling	Char(70)	70	Y	Filling of item
Frosting	Char(70)	70	Y	Frosting on Item
SpecialNotes	Text	3,000	Y	Customer special notes
SpecialPhoto	Image (3 MB)	3,145,728	Y	Uploaded image of customer design or image of product. (Bytes on an image)

[1] Type Values

Value	Constant Name	Description
0	CAKE	
1	COOKIE	
2	CUPCAKE	
3	OTHER	Denotes other product not specified in this table

Maximum data (size) per entry/entity: 3,149,016 Bytes

5 Payment

Payment information will be stored in this table.

Columns

Column	Type	Size in Bytes	Allow Nulls	Description
PaymentID	Int	1	N	Primary key. Always unique
Type	Int	1	N	Type of payment[1]
Date	DateTime	8	N	Date and Time of payment
Amount	Money	4	N	Amount of money in payment
LocationOfPayment	Int	1	N	Location Payment was made[2]

[1] Type Values

Value	Constant Name	Description
0	CASH	
1	CHECK	
2	CREDIT_CARD	
3	ACCOUNT_CREDIT	Money was credited to account
4	OTHER	Denotes other type of money transaction not specified in this table

[2] LocationOfPayment Values

Value	Constant Name	Description
0	IN_PERSON	Payment was made in-person
1	ONLINE	Payment was made online
2	OTHER	Payment was made at other location not specified in this table

Maximum data (size) per entry/entity: 15 Bytes

6 ContactUs

Contact us inquires will be stored in this table.

Columns

Column	Type	Size in Bytes	Allow Nulls	Description
ContactID	Int	1	N	Primary key. Always unique
Name	Char(60)	60	N	Customer Name
Subject	Char(265)	265	N	Subject of message
Message	Text	3,000	Y	Customer message
Email	VarChar(128)	128	Y	Customer email to reply to
Replied	Bit	.125	N	Denotes if message was replied to[1]

[1] Replied Values

Value	Constant Name	Description
0	NOT_REPLIED	Company representative has not replied to customer
1	REPLIED	Company representative has replied to customer

Maximum data (size) per entry/entity: 3,455 Bytes

7 Supplies

Contact us inquires will be stored in this table.

Columns

Column	Type	Size in Bytes	Allow Nulls	Description
SupplyID	Int	1	N	Primary key. Always unique
Name	Char(60)	60	N	Name of item
Cost	Char(265)	265	N	Cost of item
Amount	Int	1	Y	Amount of item in inventory

Maximum data (size) per entry/entity: 327 Bytes

8 Availability

Contact us inquires will be stored in this table.

Columns

Column	Type	Size in Bytes	Allow Nulls	Description
AvailabilityID	Int	1	N	Primary Key, Always unique
Date	DateTime	8	N	Date of availability taken
OrderID	Int	1	N	Foreign Key to Order.OrderID

Maximum data (size) per entry/entity: 10 Bytes

9 Bridging Tables

Tables used to bridge two tables together.

8.1 OrderItem

Columns

Column	Type	Size in Bytes	Allow Nulls	Description
OrderID	Int	1	N	Primary key. Always unique. Foreign Key from Orders.OrderID
ItemID	Int	1	N	Primary key. Always unique. Foreign Key from Items.ItemID

Maximum data (size) per entry/entity: 2 Bytes

8.2 PaymentOrder

Columns

Column	Type	Size in Bytes	Allow Nulls	Description
PaymentID	Int	1	N	Primary key. Always unique. Foreign Key from Payment.PaymentID
OrderID	Int	1	N	Primary key. Always unique. Foreign Key from Orders.OrderID
PreviousBalance	Money	1	N	Amount of Previous balance before payment
CurrentBalance	Money	1	N	Amount of remaining balance after payment

Maximum data (size) per entry/entity: 4 Bytes

8.3 Ingredients

Columns

Column	Type	Size in Bytes	Allow Nulls	Description
SupplyID	Int	1	N	Primary key. Always unique. Foreign Key from Supplies.SupplyID
ItemID	Int	1	N	Primary key. Always unique. Foreign Key from Items.ItemID

Maximum data (size) per entry/entity: 2 Bytes

Expected Database Size

Expected Data Allocation per year:

Table:	Maximum Size (in Bytes):	Number of expected entities:	Total Size in KB	Total Size in MB
Account	153	250	37.35351563	0.036478043
Addresses	99	400	38.671875	0.037765503
Order	3,024	200	590.625	0.576782227
Item	3,149,016	300	922563.2813	900.9407043
Payment	15	250	3.662109375	0.003576279
ContactUs	3,455	100	337.4023438	0.329494476
Supplies	327	300	95.80078125	0.09355545
Availability	10	200	1.953125	0.001907349
OrderItem	2	600	1.171875	0.001144409
PaymentOrder	4	500	1.953125	0.001907349
Ingredients	2	150	0.29296875	0.000286102

Total Expected Size in GB over 1 year: < 1 GB