Data Dictionary

The following pages contain tables that provide data descriptions (e.g., data types and sizes) for the attributes of each table. Therefore, a database designer would have adequate information to create the database tables and fields. Any key constraints for the tables are denoted by either PK for primary key and FK for an optional foreign key. The tables in this data dictionary come from our entity relationship diagram (ERD), listed in order from left to right position on the ERD.

Dessert Flavor Data Dictionary				
Column Name	**Key**	**Data Type**	**Description**	**Size (bytes)**
DESSERT_FLAVOR_ID	PK	integer	Identity field to uniquely identify the dessert flavor	4
DESSERT_FLAVOR_NAME		VarChar(250)	Text field to identify the dessert flavor name	0-500
FLAVOR_DESCRIPTION		VarChar(MAX)	Text field to describe the flavor of the dessert	0-8,000
			TOTAL RECORD SIZE	**4 - 8,504**

Dessert Type Data Dictionary				
Column Name	**Key**	**Data Type**	**Description**	**Size (bytes)**
DESSERT_TYPE_ID	PK	integer	Identity field to uniquely identify the dessert type	4
DESSERT_TYPE_NAME		VarChar(250)	Text field to identify the dessert type name	0-500
DESSERT_TYPE_DESCRIPTION		VarChar(MAX)	Text field to describe the type of the dessert	0-8,000
			TOTAL RECORD SIZE	**4 - 8,504**

Dessert Table Data Dictionary				
Column Name	**Key**	**Data Type**	**Description**	**Size (bytes)**
DESSERT_ID	PK	integer	Auto generated identity field to uniquely identify each specific dessert record.	4
DESSERT_FLAVOR_ID	FK	integer	Id to identify the desserts flavor type	4
DESSERT_TYPE_ID	FK	integer	Id to identify the type of dessert	4
CAKE_TYPE_ID	FK	integer	Id to specify the type of cake (double layer, triple layer, seasonal, premium, etc....)	4
CAKE_FLAVOR_ID	FK	integer	Id to identify the cake flavor	4
DESSERT_SUPPLY_ID	FK	integer	Id to relate the dessert to the dessert-supply table, where supplies used for the specific dessert are recorded	4
CAKE_SIZE		Varchar(50)	Text field to identify size of cake (9X9, 10X10, etc...)	0 - 100
DESSERT_QUANTITY		integer	Quantity of dessert(s) ordered	4
SPECIAL_LETTERING		Varchar(MAX)	Text field to list any special lettering on the dessert	0 – 8,000
EMBELLISHMENTS		Varchar(MAX)	Text field to describe any special embellishments to be added on the cake	0 – 8,000
OCCASION		Varchar(250)	Text field to describe the occasion the dessert is for	0 - 500
IMAGE_BYTE_STREAM		Varbinary(MAX)	Binary field to hold image data the user may or may not upload	0 – 8,000
			TOTAL RECORD SIZE	**28 – 24,628**

Fulfillment Table Data Dictionary				
Column Name	**Key**	**Data Type**	**Description**	**Size (bytes)**
FULFILLMENT_ID	PK	integer	Auto generated identity field to identify specific fulfillment record	4
FULFILLMENT_TYPE_ID	FK	integer	Foreign key to identify the type of fulfillment	4
FULFILLMENT_DATE		DateTime	Date the fulfillment was made	8
DISTANCE_TRAVELLED		decimal	The distance Karoline travelled to deliver the dessert, if not fulfillment type of pickup	8
DELIVERY_COST		decimal	The cost to fulfill the order (for delivery will be the fuel costs)	8
			TOTAL RECORD SIZE	**32**

Customer Table Data Dictionary				
Column Name	**Key**	**Data Type**	**Description**	**Size (bytes)**
CUSTOMER_ID	PK	Integer	Uniquely identifies each specific customer record. Automatically generated by application	4
FIRST_NAME		Varchar(35)	The customer's first name	37
LAST_NAME		Varchar(35)	The customer's last name	37
STREET_ADDRESS		Varchar(50)	The customer's street address	52
UNIT_NUMBER		Varchar(5)	If necessary, the customer's unit number	7
CITY		Varchar(25)	The customer's city	27
STATE		Varchar(15)	The customer's state	17
ZIP_CODE		Varchar(5)	The customer's zip code	7
PHONE_NUMBER		Varchar(10)	The customer's phone number	12
EMAIL_ADDRESS		Varchar(254)	The customer's email address used to log-in to their account	256
PASSWORD		Varchar(16)	The customer's password used to log-in to their account	18
			TOTAL RECORD SIZE	**474**

Order Table Data Dictionary				
Column Name	**Key**	**Data Type**	**Description**	**Size (bytes)**
ORDER_ID	PK	Integer	Uniquely identifies each specific order record. Automatically generated by application	4
CUSTOMER_ID	FK	Integer	Identifies which customer ordered	4
FULFILLMENT_ID	FK	Integer	Identifies the fulfillment option the customer chose	4
DESSERT_ID	FK	Integer	Identifies the dessert the customer chose	4
AMOUNT_DUE		Decimal	The amount of the customer's order	9
CREATED_ON		Datetime	The date and time the customer's order was created	8
			TOTAL RECORD SIZE	**33**

Dessert Supply Data Dictionary				
Column Name	Key	Data Type	Description	Size (bytes)
DESSERT_SUPPLY_ID	PK	integer	Identity field to uniquely identify each specific dessert Supply.	4
DESSERT_SUPPLY_NAME	FK	VarChar(250)	Name to identify the desserts	0-500
DESSERT_SUPPLY_TYPE_ID	FK	integer	Id to identify the type of dessert	4
QUANTITY_USED		integer	Quantity of supply	4
CUPS_USED		integer	Quantity used in cups of the supply	4
SUPPLY_COST		decimal	The estimated cost of the supplies used	9
			TOTAL RECORD SIZE	**25 - 525**

Supply Purchase Data Dictionary				
Column Name	Key	Data Type	Description	Size (bytes)
SUPPLY_PURCHASE_ID	PK	Integer	Uniquely Identifies each specific supply purchase record	4
SUPPLY_INVENTORY_ID	FK	Integer	Uniquely Identifies each specific supply inventory record	4
QUANTITY_PURCHASED		Integer	Identifies the quantity purchased	4
CUPS_PURCHASED		Integer	Identifies cups purchased	4
DATE_PURCHASED		DateTime	Indicates the Date of Purchase	8
PURCHASE_COST		Decimal	Indicates the Purchase Cost	9
			TOTAL RECORD SIZE	**33**

Fulfillment Type Data Dictionary				
Column Name	Key	Data Type	Description	Size (bytes)
FULFILLMENT_TYPE_ID	PK	Integer	Uniquely Identifies each specific fulfillment type record	4
FULFILLMENT_TYPE_NAME		Varchar(50)	Identifies the fulfillment type name	52
FULFILLMENT_TYPE_COST		Decimal	Identifies the fulfillment type cost	9
			TOTAL RECORD SIZE	**65**

Supply Inventory Data Dictionary				
Column Name	**Key**	**Data Type**	**Description**	**Size (bytes)**
SUPPLY_INVENTORY_ID	PK	integer	Auto generated identity field to identify each supply in stock.	4
SUPPLY_NAME		VarChar(100)	Name of the supply.	0 - 100
SUPPLY_DESCRIPTION		VarChar(100)	Description of the supply.	0 - 100
QUANTITY		integer	How much of the supply is left, quantity would be used for supply items that can be counted individually like eggs, or stickers.	4
CUPS_LEFT		integer	How many cups of a supply are left, would be used for supplies that are more easily measured by volume than count, like oil or milk.	4
TOTAL_COST		decimal	Cost of the supply that is left in stock.	8
			TOTAL RECORD SIZE	**20 - 220**

Cake Flavor Data Dictionary				
Column Name	**Key**	**Data Type**	**Description**	**Size (bytes)**
CAKE_FLAVOR_ID	PK	integer	Auto generated identity field to identify specific cake flavor record.	4
CAKE_FLAVOR_NAME		VarChar(100)	Field to give a name for a specific cake flavor	0-100
CAKE_FLAVOR_DESCRIPTION		VarChar(200)	Description for a specific cake flavor	0-200
			TOTAL RECORD SIZE	**0 - 304**

Cake Type Data Dictionary				
Column Name	**Key**	**Data Type**	**Description**	**Size (bytes)**
CAKE_TYPE_ID	PK	integer	Auto generated identity field to uniquely identify a specific cake type record	4
CAKE_TYPE_NAME		VarChar(100)	Field to provide a name for a specific cake type	0 - 100
CAKE_TYPE_DESCRIPTION		VarChar(200)	Field to provide a description of a specific cake type	0 - 200
			TOTAL RECORD SIZE	**0 - 304**

Payment Type Data Dictionary				
Column Name	**Key**	**Data Type**	**Description**	**Size (bytes)**
PAYMENT_TYPE_ID	PK	integer	Auto generated identity field to uniquely identify each record	4
PAYMENT_TYPE_NAME		Varchar(50)	Name of the payment type	0 - 50
PAYMENT_TYPE_DESCRIPTION		Varchar(100)	Description of the payment type	0 - 100
			TOTAL RECORD SIZE	**4 - 154**