

# **LIBR202: Assignment 2: Part A Descriptive Metadata**

## **Team 02**

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A Paper Completed in Partial Fulfillment of the Requirements for LIBR202-15

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## **Introduction**

In this assignment Team 02 will design a database for a collection of objects. The team will identify the attributes of the objects in the collection and decide which of those attributes will be included in the information retrieval system, what values should be allowed, and what rules will maintain consistent and accurate indexing. Once the collection has been entered into the database the team will then exchange databases with another team for beta testing and feedback. Feedback on clarity of indexing rules will help improve future iterations of the database

## **Statement of Purpose**

Team 02's goal is to create a database of kitchen appliances used in a typical American home in the beginning of the 21<sup>st</sup> century.

## **Audience**

Team 02 anticipates that its database will be relevant to the information needs of future anthropologists evaluating early 21<sup>st</sup> century American kitchens and homes.

## **User Need**

Future anthropologists studying early 21<sup>st</sup> century American homes would be interested in the type of appliances used in the typical American kitchen. Team 02's database will allow users to search for many important details including use, function, color, brand, power source, etc. The characteristics and functions of different appliances would allow future anthropologists to understand how kitchen appliances fit into the everyday lives of those who used them. These anthropologists might also be able to find patterns that would allow them to make behavioral and psychological observations about the people and the society that used the appliances.

Examples of searches:

- Search on device purpose
  - Anthropologists can make deductions about the typical activities that took place in kitchens (e.g., cooking was primary; cleaning, secondary).
- Combine search results for storage, device type, and brand/manufacture
  - Anthropologists can deduce patterns in consumer preferences and trends adding detail to their picture of the typical 21<sup>st</sup> century American.

## **Description of Database**

### **Unit of Analysis**

The unit of analysis is the individual kitchen appliance.

## General Summary of Discussions and Decisions

Team 02 considered several collection ideas prior to deciding on home kitchen appliances, including electronics, shoes, clothing, furniture, and decorative wall art. Home kitchen appliances was selected because it was an accessible collection for the indexers, allowed for a discrete set of objects to analyze, generated several possible user groups, and facilitated the elicitation of a broad range of attributes. Defining the group of users who would use this collection was the next step.

Product managers/developers, consumer behavior researchers, and future anthropologists were the three groups of collection users initially suggested. Product managers/developers was deemed rather too prosaic and seemed to present limited search options. Consumer behavior researchers seemed to require more of an opinion survey rather than an indexed, descriptive database of objects. After deliberation, Team 02 ultimately selected future anthropologists as the user group. More so than either of the other two groups, the team felt future anthropologists would make best use of a wide range of attributes. Future anthropologists would be ravenous for any and all details relating to the objects and would attempt to find patterns in those details and make behavioral and psychological deductions about the culture that used them. With the user group defined, Team 02 was able to begin attribute elicitation in earnest.

Understanding that “information allows us to communicate across space and time” (Morville, 2005, p. 47) and having considered the user group sufficiently to develop some basic level of “empathy for the user” (Morville, 2005, p. 31), Team 02 generated attributes it thought provided the best data for the use of future anthropologists. The initially suggested appliance attributes covered a range of physical characteristics as well as attributes that were intended to assess functional or behavioral characteristics (i.e., how Americans of the early 21<sup>st</sup> century interacted with their appliances). The team narrowed to a set that promised to provide relevant information for the user group.

For example, the initial attribute list included “has a clock”, “has a timer”, “interface type”, and “control mechanism”. The team decided to merge these attributes into a single field called “Interface” and leave this as an open text entry field with explicit rules about the kind of information that should be added. The team decided that an open text field was most appropriate because this attribute is key in understanding how people interact with their appliances and because that interaction was too complicated to narrow down to a list of specific values—or, perhaps more correctly, narrowing down would prevent the real complexity of interaction from being communicated. While in the past, due to the limitations inherent in creating a physical database, “simplicity was the only reasonable strategy” (Weinberger, 2008, p. 182), since this database exists in an exclusively digital format the team decided to take advantage of the flexibility that format offers. Once indexer entered values for this field are gathered, they will be used to create an inverted file for key word searching. Further, those key words will be comprised of a more natural vocabulary, which will help improve the database. The natural vocabulary can be used to re-create the mental models associated with kitchen appliances. These models will be fed back into the database as improved search terms that draw on the concepts and statements present in the mental models (Carley & Palmquist, 1992).

Another example is the discussion surrounding “length of ownership”. This attribute’s field name was originally “age”, meaning age since manufacture. However, the team decided that this information was actually difficult to ascertain for appliances that were inherited, say from a previous owner, tenant, or landlord. What could be known with some surety was the year in which the appliance was acquired, and then “length of ownership” could be determined based on the year acquired. The team determined that a simple set of year options would be a good way for indexers to assign values to this attribute. “Length of ownership”, while not always representing actual age of the appliance, would provide future anthropologists with information regarding how long the appliances in this particular collection were held by their current owners. The attribute provides some insight into the frequency with which different device types were replaced, or perhaps quality and longevity of appliance types, or even perhaps relative expense of appliance types.

Additional detail on Team 02 discussions can be found on the Team 02 discussion board in Desire2Learn.

## List of Attributes with Reason for Inclusion

Attribute	Reason for Inclusion
Record number	A unique record locator is necessary to identify each record separately from the others.
Device type	Knowing the type of device will help anthropologists define categories of appliances. They can then aggregate multiple devices into one category and compare attributes between categories (e.g., how crockpots stored compared to how coffee makers were stored). They can also compare other attributes within a device type category (e.g., how many stoves are gas heated versus electrical). The breadth of device types will also provide an understanding of the activities that took place in kitchens of the day.
Size	Size will help the anthropologists to re-create a picture of what kitchen appliances looked in the early 21 <sup>st</sup> century. Combined with other attributes, size will also help explain what kitchens looked like (e.g., size and storage attributes help anthropologists develop visual re-creations of model kitchens).
Primary purpose	Primary purpose enables the anthropologist to understand how the appliances were used and also extrapolate activities or behaviors that took place in the kitchen (e.g., cooking was the predominant activity and cleaning a secondary activity).
Power source	The power source helps anthropologists understand how early 21 <sup>st</sup> century kitchens were operated. Linked with size, it will also provide some clues as to how homes were built. For example, a stove or refrigerator is not portable, so the power source had to be brought to it; the appliance couldn’t be taken to the power source.

Attribute	Reason for Inclusion
Heat source	The heat source will also help anthropologists understand how kitchens operated. Similar to power source, it allows anthropologists to understand something about the nature of how homes were constructed, that is, they needed gas lines and hook-ups in the kitchen.
Storage	How devices were stored provides clues about how often they were used as well as how integral they were to the daily activities taking place in the kitchen. Tied with size and frequency of use, it may provide additional insight into storage patterns (e.g., small devices may be more likely to be stowed away, regardless of how often they were used).
Blades?	The presence or absence of blades will provide insight into how the device was used. Blades might also denote a particularly dangerous device, hence when tied with storage, anthropologists might see bladed devices being stowed away rather than always out.
Interface	The interface type or control mechanism will allow anthropologists to understand the way in which people physically interacted with their appliances, and more specifically how they controlled the devices. This attribute will help elucidate behavior (e.g., a timer's presence might allow the user to perform other activities while the appliance was in use).
Brand/Manufacturer	Brand or manufacturer gives insight into preferences. Anthropologists can determine popular brands and make assumptions about their quality, performance, or possibly price compared to less popular brands.
Primary color	The primary color allows anthropologists to note passing fads and more permanent trends in kitchen design and appearance. Combined with secondary color, size, and storage this attribute will help anthropologists to re-create a visual model of the early 21 <sup>st</sup> century kitchen. It tells of the aesthetic preferences of the time.
Secondary color	Secondary color enhances the information provided by primary color and provides anthropologists with a clearer image of how an early 21 <sup>st</sup> century kitchen appeared.
Condition	Condition can help the anthropologist think about the personality of its user as well as give clues to their behavior and use of their appliances (e.g., Does a dirty, well-used refrigerator mean the user is lazy, or busy, or simply oblivious? Perhaps a like-new device is one that is very infrequently used. Perhaps a dirty stove shows the user cooked at home frequently.)
Method acquired	The method of acquisition can tell the anthropologist about the desires of the user. If the user purchased the device, they chose it for some reason.

Attribute	Reason for Inclusion
Length of ownership	Length of ownership can help the anthropologist understand overall patterns about how long devices were kept, and it can help the anthropologist draw conclusions about what the differences mean (e.g., if countertop appliances are younger than floor appliances, perhaps this speaks to differences in cost, quality, longevity, or even popularity of a certain device type or color).

## Data Structure and Validation Lists

The following are the data structure and validation lists used with DB/Textworks for the Team 02 Common Kitchen Appliance database:

### Data Structure

Textbase Information

Textbase: C:\Users\Matt\Downloads\Team 2 - Kitchen Appliances Database\Team 2 - Kitchen Appliances Database\Team 2 - Kitchen Appliances

Created: 2/22/2013 8:48:02 PM

Modified: 3/3/2013 11:31:24 AM

Field Summary:

1. Record Number: Automatic Number(next avail=13, increm=1), Term
2. Device Type: Text, Term & Word  
Validation: required, valid-list
3. Size: Text, Term & Word  
Validation: required, valid-list
4. Primary Purpose: Text, Term & Word  
Validation: required, valid-list
5. Power Source: Text, Term & Word  
Validation: required, valid-list
6. Heat Source: Text, Term & Word  
Validation: required, valid-list
7. Storage: Text, Term & Word  
Validation: required, valid-list
8. Blades: Text, Term & Word  
Validation: required, valid-list
9. Interface: Text, Term & Word  
Validation: required
10. Manufacturer: Text, Term & Word  
Validation: required
11. Primary Color: Text, Term & Word

- Validation: required, valid-list
12. Secondary Color: Text, Term & Word  
Validation: required, valid-list
13. Condition: Text, Term & Word  
Validation: required, single-only, valid-list
14. Method Acquired: Text, Term & Word  
Validation: required, valid-list
15. Length Of Ownership: Text, Term & Word  
Validation: required, valid-list

Log file enabled, showing 'Record Number'  
Leading articles: a an the  
Stop words: a an and by for from in of the to

XML Match Fields:

1. Record Number

Textbase Defaults:

Default indexing mode: SHARED IMMEDIATE  
Default sort order: <none>

Textbase passwords:

Master password = "  
0 Access passwords:  
No Silent password

## Validation Lists

Device Type	Blender, Bread Maker, Can Opener, Chopper, Coffee Grinder, Coffee Maker, Crockpot, Deep Fryer, Dishwasher, Electric Water Kettle, Food Dehydrator, Food Processor, Griddle, Hand Blender, Hand Mixer, Hot Dog Toaster, Hot Plate, Immersion Blender, Juicer, Kitchen Scale, Microwave, Panini Press, Pasta Maker, Refrigerator, Rice Cooker, Soda Maker, Stand Mixer, Stove, Toaster, Toaster Oven, Waffle Maker, Other
Size	Counter-Top, Freestanding, Handheld
Primary Purpose	Clean, Cool/Preserve, Heat/Cook, Prepare, Other
Power Source	Battery Powered, Electric, Other, Unknown
Heat Source	Electric, Gas, Not Applicable, Unknown
Storage	Always Out, Stowed Away
Blades	Yes, No
Primary Color	Black, Blue, Brown, Gray, Green, Light Blue, Orange, Other, Pink, Purple, Red, Uncoated (Metal), Uncoated (Wood), White, Yellow



Secondary Color	Black, Blue, Brown, Gray, Green, Light Blue, Orange, Other, Pink, Purple, Red, Uncoated (Metal), Uncoated (Wood), White, Yellow, Not Applicable
Condition	New, Like New, Used, Heavily Used, Broken/Needs Repair
Method Acquired	Gift, Inherited, Purchased, Unknown
Length of Ownership	0 Years, 1 Year, 2 Years, 3 Years, 4 years, 5+ Years, Unknown

## Indexing Rules

### General Rules

1. All fields are mandatory.
2. Indexers should strive to select the most appropriate field value to the best of their knowledge. However, if an attribute is unknown or not applicable, indexers should always select unknown or not applicable as the field value. Do not guess or randomly select another field value.

### Rules by Attribute

Field	Rules
Record number	<ul style="list-style-type: none"> <li>• Automatic number (do not modify field).</li> </ul>
Device type	<ul style="list-style-type: none"> <li>• Select the most appropriate option: stove, refrigerator, dishwasher, microwave, toaster, blender, coffee maker, immersion blender, hand mixer, crockpot, chopper, hand mixer, stand mixer, juicer, coffee grinder, toaster oven, freezer, pasta maker, electric water kettle, can opener, food processor, waffle maker, hot dog toaster, deep fryer, panini press, bread maker, soda maker, food dehydrator, kitchen scale, hot plate, griddle, rice cooker, other, unknown</li> <li>• Select other for appliances that don't appear in the list.</li> <li>• Select unknown if the appliance type is not readily recognizable.</li> </ul>
Size	<ul style="list-style-type: none"> <li>• Select the most appropriate option: handheld, countertop, freestanding, other, unknown</li> <li>• A handheld appliance will typically be the smallest in physical dimensions as compared to a countertop (medium-sized) or freestanding (large-sized, floor standing) appliance.</li> <li>• For example: an immersion blender is handheld; a coffee maker is countertop; a stove is freestanding.</li> </ul>

Field	Rules
Primary purpose	<ul style="list-style-type: none"> <li>• Select the most appropriate option: clean, cool/preserve, heat/cook, prepare, other</li> <li>• For example: a dishwasher's primary purpose is to clean; a refrigerator's primary purpose is to cool/preserve; a microwave's primary purpose is to heat/cook; a mixer's primary purpose is to prepare.</li> </ul>
Power source	<ul style="list-style-type: none"> <li>• Select the most appropriate option: electric, battery powered, other, unknown</li> <li>• A device with a rechargeable battery is considered battery powered.</li> <li>• Make a selection to the best of your ability based on the collection images provided.</li> <li>• Other should be selected for a device with no power source, for example a hand-powered pasta maker.</li> </ul>
Heat source	<ul style="list-style-type: none"> <li>• Select the most appropriate option: gas, electric, not applicable, unknown</li> <li>• For example a stove's heat source may be gas or electric whereas a microwave's heat source is typically electric.</li> <li>• Many appliances have no heat source, for example refrigerators and blenders. Not applicable should be selected in these cases.</li> </ul>
Storage	<ul style="list-style-type: none"> <li>• Select the most appropriate option: always out, stowed away</li> <li>• Always out means the appliance is stored on the countertop or other working surface in the kitchen.</li> <li>• Stowed away means the appliance must be retrieved to be used. It could be stowed in a cupboard, pantry, or on a shelf.</li> <li>• If an appliance may be out for a few days (e.g., during the holidays), but typically stowed away then it should be designated as stowed away.</li> <li>• Likewise, if an appliance is typically always out, but may be stowed away during an event (e.g., dinner party) then it should be designated as always out.</li> </ul>
Blades	<ul style="list-style-type: none"> <li>• Select the most appropriate option: yes, no</li> <li>• Any type of blade counts as a yes. It could be dull or sharp; it could be integral to the appliance or a separate attachment.</li> </ul>

Field	Rules
Interface	<ul style="list-style-type: none"> <li>Describe the interface or control mechanism by entering text.</li> <li>Does it include buttons, switches, or dials?</li> <li>Does it allow for temperature adjustment, cycle selection, speed adjustment, or does it control some other function? Please specify this other function.</li> <li>Does it include a timer?</li> <li>Does it allow the appliance to be turned on and off?</li> <li>Data entered into this field will be used to create an inverted file for key word searching.</li> </ul>
Manufacturer/Brand	<ul style="list-style-type: none"> <li>Enter the name of the manufacturer of the appliance.</li> <li>If possible, indexers should enter the brand name that can be found on the appliance itself.</li> <li>If no brand name is apparent on the product, and the indexer has no other way of determining this information, then unknown may be entered as the value for this field.</li> </ul>
Primary color	<ul style="list-style-type: none"> <li>Select the closest match from the following: Red, Green, Yellow, Blue, Black, White, Pink, Light Blue, Gray, Orange, Brown, Purple, Uncoated Metal, Uncoated Wood, Other.</li> <li>Whichever of the listed values closest to the color that is most prominently featured on the item being indexed should be chosen.</li> </ul>
Secondary color	<ul style="list-style-type: none"> <li>Select the closest match from the following: Red, Green, Yellow, Blue, Black, White, Pink, Light Blue, Gray, Orange, Brown, Purple, Uncoated Metal, Uncoated Wood, Other, N/A.</li> <li>Whichever of the listed values closest to the color that is the second most prominent on the item being indexed should be chosen.</li> <li>If there is no clear secondary color, this field may be omitted (or N/A can be selected as the value).</li> </ul>
Condition	<ul style="list-style-type: none"> <li>Select the most appropriate option: new, like new, used, heavily used</li> <li>Based on the collection images provided, select the option that seems to fit best.</li> </ul>
Method of acquisition	<ul style="list-style-type: none"> <li>Select the most appropriate option: purchased, gift, inherited, unknown</li> <li>Inherited means the appliance came from a family member, previous owner or tenant, landlord, etc.</li> </ul>

Field	Rules
Length of ownership	<ul style="list-style-type: none"> <li>• Select the most appropriate option: 0 years, 1 year, 2 years, 3 years, 4 years, 5+ years, unknown.</li> <li>• Length of ownership is the number of years since the device was acquired.</li> </ul>

## Team Records

<b>Record Number</b>	1
<b>Device Type</b>	Coffee Grinder
<b>Size</b>	Counter-Top
<b>Primary Purpose</b>	Prepare
<b>Power Source</b>	Electric
<b>Heat Source</b>	Not Applicable
<b>Storage</b>	Always Out
<b>Blades</b>	Yes
<b>Interface</b>	Interface includes one button and a sliding switch. The button turns the grinder on and off. The slider switch controls the texture of the grind, that is, coarse, medium, or fine. Each gradation of grind texture also corresponds to a coffee preparation method: coarse grind is for a percolator; medium grind is for an autodrip; fine grind is for and espresso machine. No timer is included.
<b>Manufacturer</b>	GE
<b>Primary Color</b>	Black
<b>Secondary Color</b>	Gray
<b>Condition</b>	Heavily Used
<b>Method Acquired</b>	Gift
<b>Length Of Ownership</b>	5+ Years

<b>Record Number</b>	2
<b>Device Type</b>	Crockpot
<b>Size</b>	Counter-Top
<b>Primary Purpose</b>	Heat/Cook
<b>Power Source</b>	Electric
<b>Heat Source</b>	Not Applicable
<b>Storage</b>	Stowed Away
<b>Blades</b>	No
<b>Interface</b>	The interface has several buttons. One turns the crockpot on and off. Four buttons control cooking temperature, one for High, one for Low, one for Simmer, and one for Warm. The final two buttons control the timer function; there is a + button to add minutes, and a - button to reduce minutes. Yes a timer is

	included on the appliance.
<b>Manufacturer</b>	Cuisinart
<b>Primary Color</b>	Uncoated (Metal)
<b>Secondary Color</b>	Black
<b>Condition</b>	Like New
<b>Method Acquired</b>	Gift
<b>Length Of Ownership</b>	1 Year

<b>Record Number</b>	3
<b>Device Type</b>	Dishwasher
<b>Size</b>	Freestanding
<b>Primary Purpose</b>	Clean
<b>Power Source</b>	Electric
<b>Heat Source</b>	Not Applicable
<b>Storage</b>	Always Out
<b>Blades</b>	No
<b>Interface</b>	Interface includes 11 buttons and one switch. One button starts and stops the dishwasher. The other 10 allow for selection between various Load Selections or ways to wash (Saniwash, Pots & pans, Normal, China crystal, Speed wash, Rinse only) and various Options (Power presoak, Speed dry, Lock (2 times), Delay start). Also included is a Status display where a light indicates status of each load. Status indicators exist for Sensing, Washing, Rinsing, Drying, Sanitized. The switch locks and unlocks the door. No timer is specifically included, however there is a Delay start option.
<b>Manufacturer</b>	GE
<b>Primary Color</b>	Uncoated (Metal)
<b>Secondary Color</b>	Black
<b>Condition</b>	Used
<b>Method Acquired</b>	Inherited
<b>Length Of Ownership</b>	5+ Years

<b>Record Number</b>	4
<b>Device Type</b>	Pasta Maker
<b>Size</b>	Counter-Top
<b>Primary Purpose</b>	Prepare
<b>Power Source</b>	Other

<b>Heat Source</b>	Not Applicable
<b>Storage</b>	Stowed Away
<b>Blades</b>	Yes
<b>Interface</b>	This is a simple manually powered appliance. The only interface as such is the crank handle on the side. The blades can also be switch out to allow the user to cut different shapes of pasta.
<b>Manufacturer</b>	Imperia
<b>Primary Color</b>	Red
<b>Secondary Color</b>	Uncoated (Metal)
<b>Condition</b>	Like New
<b>Method Acquired</b>	Gift
<b>Length Of Ownership</b>	3 Years

<b>Record Number</b>	5
<b>Device Type</b>	Immersion Blender
<b>Size</b>	Handheld
<b>Primary Purpose</b>	Prepare
<b>Power Source</b>	Electric
<b>Heat Source</b>	Not Applicable
<b>Storage</b>	Always Out
<b>Blades</b>	Yes
<b>Interface</b>	On/Off Button
<b>Manufacturer</b>	Cuisinart
<b>Primary Color</b>	Yellow
<b>Secondary Color</b>	Uncoated (Metal)
<b>Condition</b>	Like New
<b>Method Acquired</b>	Gift
<b>Length Of Ownership</b>	1 Year

<b>Record Number</b>	6
<b>Device Type</b>	Microwave
<b>Size</b>	Counter-Top
<b>Primary Purpose</b>	Heat/Cook
<b>Power Source</b>	Electric
<b>Heat Source</b>	Electric
<b>Storage</b>	Always Out
<b>Blades</b>	No
<b>Interface</b>	Screen displaying time of cooking/time of day, buttons to select mode of operation, cooking time, start/stop cooking, and to set the time.
<b>Manufacturer</b>	General Electric

<b>Primary Color</b>	Black
<b>Secondary Color</b>	Not Applicable
<b>Condition</b>	Used
<b>Method Acquired</b>	Purchased
<b>Length Of Ownership</b>	1 Year

<b>Record Number</b>	7
<b>Device Type</b>	Electric Water Kettle
<b>Size</b>	Counter-Top
<b>Primary Purpose</b>	Heat/Cook
<b>Power Source</b>	Electric
<b>Heat Source</b>	Electric
<b>Storage</b>	Always Out
<b>Blades</b>	No
<b>Interface</b>	On/Off Switch - Automatically flips to 'Off' position once water is finished heating.
<b>Manufacturer</b>	Flama
<b>Primary Color</b>	Uncoated (Metal)
<b>Secondary Color</b>	Black
<b>Condition</b>	Heavily Used
<b>Method Acquired</b>	Inherited
<b>Length Of Ownership</b>	1 Year

<b>Record Number</b>	8
<b>Device Type</b>	Food Processor
<b>Size</b>	Counter-Top
<b>Primary Purpose</b>	Prepare
<b>Power Source</b>	Electric
<b>Heat Source</b>	Not Applicable
<b>Storage</b>	Stowed Away
<b>Blades</b>	Yes
<b>Interface</b>	Buttons - Two buttons which activate one of the two modes of operation (Chop or Grind) when held down, but are in a default 'Off' position otherwise.
<b>Manufacturer</b>	Cuisinart
<b>Primary Color</b>	White
<b>Secondary Color</b>	Not Applicable
<b>Condition</b>	Like New
<b>Method Acquired</b>	Gift
<b>Length Of Ownership</b>	2 Years

<b>Record Number</b>	9
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<b>Device Type</b>	Refrigerator
<b>Size</b>	Freestanding
<b>Primary Purpose</b>	Cool/Preserve
<b>Power Source</b>	Electric
<b>Heat Source</b>	Not Applicable
<b>Storage</b>	Always Out
<b>Blades</b>	No
<b>Interface</b>	Dials, temperature adjustment
<b>Manufacturer</b>	Frigidaire
<b>Primary Color</b>	White
<b>Secondary Color</b>	Gray
<b>Condition</b>	Used
<b>Method Acquired</b>	Inherited
<b>Length Of Ownership</b>	0 Years

<b>Record Number</b>	10
<b>Device Type</b>	Toaster
<b>Size</b>	Counter-Top
<b>Primary Purpose</b>	Heat/Cook
<b>Power Source</b>	Electric
<b>Heat Source</b>	Electric
<b>Storage</b>	Always Out
<b>Blades</b>	No
<b>Interface</b>	Buttons, temperature adjustment
<b>Manufacturer</b>	Cuisinart
<b>Primary Color</b>	Black
<b>Secondary Color</b>	White
<b>Condition</b>	Used
<b>Method Acquired</b>	Inherited
<b>Length Of Ownership</b>	1 Year

<b>Record Number</b>	11
<b>Device Type</b>	Waffle Maker
<b>Size</b>	Counter-Top
<b>Primary Purpose</b>	Heat/Cook
<b>Power Source</b>	Electric
<b>Heat Source</b>	Electric
<b>Storage</b>	Stowed Away
<b>Blades</b>	No
<b>Interface</b>	None
<b>Manufacturer</b>	Black and Decker
<b>Primary Color</b>	White
<b>Secondary Color</b>	Black
<b>Condition</b>	Like New

<b>Method Acquired</b>	Inherited
<b>Length Of Ownership</b>	5+ Years

<b>Record Number</b>	12
<b>Device Type</b>	Stove
<b>Size</b>	Freestanding
<b>Primary Purpose</b>	Heat/Cook
<b>Power Source</b>	Electric
<b>Heat Source</b>	Gas
<b>Storage</b>	Always Out
<b>Blades</b>	No
<b>Interface</b>	Dials, temperature adjustment
<b>Manufacturer</b>	Montgomery Ward by Tappan
<b>Primary Color</b>	White
<b>Secondary Color</b>	Black
<b>Condition</b>	Heavily Used
<b>Method Acquired</b>	Inherited
<b>Length Of Ownership</b>	0 Years

## Beta Test Records – Differences Highlighted

Photographs of the appliances for indexing were provided to the beta testers in a PowerPoint file.

Record number has been transferred from the beta test records. However, as it was automatically generated, there isn't a base for comparison between the team's records and the beta test records. Also, the same record number was applied to different collection items depending on the items each beta tester chose to index. To help with comparison, the item letters from the PowerPoint file have been included below in italics. Individual beta testers are represented by each of four columns. The beta testers were separated in this way to enable easy comparison with their evaluations and to help Team 02 recognize indexing patterns specific to an individual beta tester.

	Values represented by different terms
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	Team 02	Beta Tester 1	Beta Tester 2	Beta Tester 3	Beta Tester 4
<i>Item</i>	A	A	<i>Not indexed</i>	<i>Not indexed</i>	<i>Not indexed</i>
Record number	4	5			
Device type	Pasta Maker	Pasta Maker			
Size	Counter-Top	Counter-top			
Primary purpose	Prepare	Prepare			
Power source	Other	Other			
Heat source	Not Applicable	Not Applicable			
Storage	Stowed Away	Stowed Away			
Blades	Yes	No			
Interface	This is a simple manually powered appliance. The only interface as such is the crank handle on the side. The blades	Hand Crank			

	Team 02	Beta Tester 1	Beta Tester 2	Beta Tester 3	Beta Tester 4
	can also be switch out to allow the user to cut different shapes of pasta.				
Brand/Manufacturer	Imperia	Imperia			
Primary color	Red	Red			
Secondary color	Uncoated (Metal)	Uncoated (Metal)			
Condition	Like New	Like New			
Method acquired	Gift	Gift			
Length of ownership	3 Years	2 Years			
<i>Item</i>	<i>B</i>	<i>Not indexed</i>	<i>B</i>	<i>Not indexed</i>	<i>Not indexed</i>
Record number	3		6		
Device type	Dishwasher		Dishwasher		
Size	Freestanding		Freestanding		
Primary purpose	Clean		Clean		
Power source	Electric		Electric		
Heat source	Not Applicable		Not Applicable		
Storage	Always Out		Always Out		
Blades	No		No		
Interface	The interface has several buttons. One turns the crockpot on and off. Four buttons control cooking temperature, one for High, one for Low, one for		Buttons Cycle Selection Timer Heat Control Can be turned off,		

	Team 02	Beta Tester 1	Beta Tester 2	Beta Tester 3	Beta Tester 4
	Simmer, and one for Warm. The final two buttons control the timer function; there is a + button to add minutes, and a - button to reduce minutes. Yes a timer is included on the appliance.				
Brand/Manufacturer	GE		General Electric		
Primary color	Uncoated (Metal)		Uncoated (Metal)		
Secondary color	Black		Not applicable		
Condition	Used		Used		
Method acquired	Inherited		Inherited		
Length of ownership	5+ Years		4 Years		
<i>Item</i>	<i>C</i>	<i>Not indexed</i>	<i>Not indexed</i>	<i>C</i>	<i>Not indexed</i>
Record number	2			7	
Device type	Crockpot			Crockpot	
Size	Counter-Top			Counter-Top	
Primary purpose	Heat/Cook			Heat/Cook	
Power source	Electric			Electric	
Heat source	Not Applicable			Electric	
Storage	Stowed Away			Stowed Away	
Blades	No			No	
Interface	The interface has several buttons. One turns the crockpot on and			Can be turned off Timer Temperature Control	

	Team 02	Beta Tester 1	Beta Tester 2	Beta Tester 3	Beta Tester 4
	off. Four buttons control cooking temperature, one for High, one for Low, one for Simmer, and one for Warm. The final two buttons control the timer function; there is a + button to add minutes, and a - button to reduce minutes. Yes a timer is included on the appliance.				
Brand/Manufacturer	Cuisinart			Cuisinart	
Primary color	Uncoated (Metal)			Uncoated (Metal)	
Secondary color	Black			Black	
Condition	Like New			Like New	
Method acquired	Gift			Gift	
Length of ownership	1 Year			1 Year	
<i>Item</i>	<i>D</i>	<i>D</i>	<i>Not indexed</i>	<i>Not indexed</i>	<i>D</i>
Record number	1	5			8
Device type	Coffee Grinder	Coffee Grinder			Coffee Grinder
Size	Counter-Top	Counter-Top			Counter-Top
Primary purpose	Prepare	Prepare			Prepare
Power source	Electric	Electric			Electric
Heat source	Not Applicable	Not Applicable			Not Applicable
Storage	Always Out	Always Out			Always Out

	Team 02	Beta Tester 1	Beta Tester 2	Beta Tester 3	Beta Tester 4
Blades	Yes	Yes			Yes
Interface	Interface includes one button and a sliding switch. The button turns the grinder on and off. The slider switch controls the texture of the grind, that is, coarse, medium, or fine. Each gradation of grind texture also corresponds to a coffee preparation method: coarse grind is for a percolator; medium grind is for an autodrip; fine grind is for and espresso machine. No timer is included.	This appliance contains an on/off button with a manual vertical switch for speed adjustment of coffee grinding cycle. No timer included on this appliance.			Can be turned off Courseness Setting Preperation Type
Brand/Manufacturer	GE	General Electric (GE)			General Electric
Primary color	Black	Black			Black
Secondary color	Gray	Gray			Not Applicable
Condition	Heavily Used	Used			Heavily Used
Method acquired	Gift	Gift			Gift
Length of	5+ Years	5+ Years			5+ Years

	Team 02	Beta Tester 1	Beta Tester 2	Beta Tester 3	Beta Tester 4
ownership					
<i>Item</i>	<i>E</i>	<i>Not indexed</i>	<i>E</i>	<i>Not indexed</i>	<i>Not indexed</i>
Record number	7		6		
Device type	Electric Water Kettle		Electric Water Kettle		
Size	Counter-Top		Counter-Top		
Primary purpose	Heat/Cook		Heat/Cook		
Power source	Electric		Electric		
Heat source	Electric		Electric		
Storage	Always Out		Always Out		
Blades	No		No		
Interface	On/Off Switch - Automatically flips to 'Off' position once water is finished heating.		This appliance does not contain an interface or temperature control. It does contain a measuring system telling how many cups of water are currently in the pot.		
Brand/Manufacturer	Flama		Flama		
Primary color	Uncoated (Metal)		Uncoated (Metal)		
Secondary color	Black		Black		
Condition	Heavily Used		Like New		
Method acquired	Inherited		Inherited		
Length of ownership	1 Year		1 Year		



	Team 02	Beta Tester 1	Beta Tester 2	Beta Tester 3	Beta Tester 4
<i>Item</i>	<i>F</i>	<i>Not indexed</i>	<i>Not indexed</i>	<i>F</i>	<i>Not indexed</i>
Record number	6			7	
Device type	Microwave			Microwave	
Size	Counter-Top			Freestanding	
Primary purpose	Heat/Cook			Heat/Cook	
Power source	Electric			Electric	
Heat source	Electric			Electric	
Storage	Always Out			Always Out	
Blades	No			No	
Interface	Screen displaying time of cooking/time of day, buttons to select mode of operation, cooking time, start/stop cooking, and to set the time.			This interface is digital that includes many numeric buttons. The buttons control temperature adjustment, cycle selection, speed adjustment. The buttons allow the machine to be turned on and off and includes a timer.	
Brand/Manufacturer	General Electric			General Electric (GE)	
Primary color	Black			Black	
Secondary color	Not Applicable			Uncoated (Metal)	
Condition	Used			Like New	
Method acquired	Purchased			Purchased	
Length of ownership	1 Year			1 Year	

	Team 02	Beta Tester 1	Beta Tester 2	Beta Tester 3	Beta Tester 4
<i>Item</i>	<i>G</i>	<i>G</i>	<i>Not indexed</i>	<i>Not indexed</i>	<i>G</i>
Record number	5	5			8
Device type	Immersion Blender	Immersion Blender			Hand mixer
Size	Handheld	Handheld			Handheld
Primary purpose	Prepare	Prepare			Prepare
Power source	Electric	Electric			Electric
Heat source	Not Applicable	Not applicable			Unknown
Storage	Always Out	Always Out			Always Out
Blades	Yes	Yes			Yes
Interface	On/Off Button	On and off switch			A single gray button that turns appliance on and off. It does not have a timer.
Brand/Manufacturer	Cuisinart	Cuisinart			Cuisiart
Primary color	Yellow	Yellow			Yellow
Secondary color	Uncoated (Metal)	Uncoated (Metal)			Uncoated (Metal)
Condition	Like New	Like New			Like New
Method acquired	Gift	Gift			Gift
Length of ownership	1 Year	1 Year			1 Year
<i>Item</i>	<i>H</i>	<i>Not indexed</i>	<i>H</i>	<i>Not indexed</i>	<i>Not indexed</i>
Record number	8		6		
Device type	Food Processor		Food Processor		
Size	Counter-Top		Counter-Top		
Primary purpose	Prepare		Prepare		
Power source	Electric		Unknown		

	Team 02	Beta Tester 1	Beta Tester 2	Beta Tester 3	Beta Tester 4
Heat source	Not Applicable		Not Applicable		
Storage	Stowed Away		Stowed Away		
Blades	Yes		Yes		
Interface	Buttons - Two buttons which activate one of the two modes of operation (Chop or Grind) when held down, but are in a default 'Off' position otherwise.		one button for chop, one button for grind		
Brand/Manufacturer	Cuisinart		Cuisinart		
Primary color	White		White		
Secondary color	Not Applicable		Not Applicable		
Condition	Like New		Like New		
Method acquired	Gift		Gift		
Length of ownership	2 Years		2 Years		
<i>Item</i>	<i>/</i>	<i>/</i>	<i>Not indexed</i>	<i>/</i>	<i>Not indexed</i>
Record number	10	5		7	
Device type	Toaster	Toaster		Toaster	
Size	Counter-Top	Counter-top		Counter-Top	
Primary purpose	Heat/Cook	Heat/Cook		Heat/Cook	
Power source	Electric	Electric		Electric	
Heat source	Electric	Electric		Electric	
Storage	Always Out	Always Out		Always Out	
Blades	No	No		No	
Interface	Buttons, temperature	buttons, lever, temperature		button 2 slices, button bagel,	

	Team 02	Beta Tester 1	Beta Tester 2	Beta Tester 3	Beta Tester 4
	adjustment	adjustment		button defrost, button reheat, button lighter, button darker, button cancel reset, browning control gage with incremental lights	
Brand/Manufacturer	Cuisinart	Cuisinart		Cuisinart	
Primary color	Black	Black		Black	
Secondary color	White	Not Applicable		Not Applicable	
Condition	Used	Used		Used	
Method acquired	Inherited	Inherited		Inherited	
Length of ownership	1 Year	1 Year		1 Year	
<i>Item</i>	<i>J</i>	<i>Not indexed</i>	<i>J</i>	<i>Not indexed</i>	<i>J</i>
Record number	12		6		8
Device type	Stove		Stove		Stove
Size	Freestanding		Freestanding		Freestanding
Primary purpose	Heat/Cook		Heat/Cook		Heat/Cook
Power source	Electric		Unknown		Other
Heat source	Gas		Gas		Gas
Storage	Always Out		Always Out		Always Out
Blades	No		No		No
Interface	Dials, temperature adjustment		knobs to turn on , push in knob, temperature adjustment, clock, timer		4 dials for burners, 1 dial for oven and broiler
Brand/Manufacturer	Montgomery Ward		Tappan		Montgomery Ward

	Team 02	Beta Tester 1	Beta Tester 2	Beta Tester 3	Beta Tester 4
	by Tappan				by Tappan
Primary color	White		White		Black
Secondary color	Black		Black		Other
Condition	Heavily Used		Heavily Used		Heavily Used
Method acquired	Inherited		Inherited		Inherited
Length of ownership	0 Years		1 Year		1 Year
<i>Item</i>	<i>K</i>	<i>Not indexed</i>	<i>Not indexed</i>	<i>K</i>	<i>Not indexed</i>
Record number	9			7	
Device type	Refrigerator			Refrigerator	
Size	Freestanding			Freestanding	
Primary purpose	Cool/Preserve			Cool/Preserve	
Power source	Electric			Electric	
Heat source	Not Applicable			Not Applicable	
Storage	Always Out			Always Out	
Blades	No			No	
Interface	Dials, temperature adjustment			handle to open door, temperature adjustment	
Brand/Manufacturer	Frigidaire			Frigidare	
Primary color	White			White	
Secondary color	Gray			Not applicable	
Condition	Used			Used	
Method acquired	Inherited			Inherited	
Length of ownership	0 Years			1 Year	
<i>Item</i>	<i>L</i>	<i>Not indexed</i>	<i>Not indexed</i>	<i>Not indexed</i>	<i>L</i>
Record number	11				8
Device type	Waffle Maker				Waffle Maker

	Team 02	Beta Tester 1	Beta Tester 2	Beta Tester 3	Beta Tester 4
Size	Counter-Top				Counter-Top
Primary purpose	Heat/Cook				Heat/Cook
Power source	Electric				Electric
Heat source	Electric				Electric
Storage	Stowed Away				Stowed Away
Blades	No				No
Interface	None				opens and closes, temperature adjustment
Brand/Manufacturer	Black and Decker				Black & Decker
Primary color	White				White
Secondary color	Black				Black
Condition	Like New				Like New
Method acquired	Inherited				Inherited
Length of ownership	5+ Years				5+ Years

## **Conclusions**

### **Teamwork Process**

Team 02 addressed this project through a collaborative approach, sharing task responsibility but allowing individual members to focus on areas in which they had experience. Hence, one team member, who had experience with DBTextWorks, handled the bulk of the database design. Another team member had previous project management experience and so built a schedule, monitored status, and helped facilitate task completion. Scribal duties were shared between two team members. Establishing team roles early on lead to enhanced efficiency and productivity, an important point made by Ken Haycock in his presentation on working in teams (2007). All team members contributed by posting suggestions or comments on other team member's suggestions for user groups, attributes, data structure, indexing rules, and the conclusion to the group discussion board. During weekly group meetings, suggestions were discussed and final decisions made. Though there were initially some technical difficulties—neither Blackboard Collaborate nor the designated Desire2Learn online room were reliably accessible—the team was able to communicate effectively using Google+. These weekly meetings played a central role in ensuring that all members had a chance to make their opinions heard, and were the site where differences of opinion and the minutia of the project were sorted out. Within the overarching structure of the team schedule, the looser (but still highly productive) discussions that took place during weekly meetings enabled greater flexibility in how tasks were approached, by allowing the team to shift/reassign responsibilities and due dates as needed, solicit team members' informal opinions on work in progress, and set priorities for the work ahead. Team 02 then followed through on these new goals/alterations through Desire2Learn and email conversation throughout the week.

At the beginning of the project, Team 02 lost one of the original four team members, as she decided to drop the class. This personnel change did not significantly or adversely affect the group. It was early enough in the project that no significant responsibility was assigned to this team member. The other three members of the team were able to complete the project without issue.

### **Goal Achievement**

The goal of Assignment 2 was to create a simple, descriptive metadata database. Team 02 achieved this goal by making a database from a common kitchen appliance collection that contained information helpful to future anthropologists who would be interested in learning about early 21<sup>st</sup> century American kitchens. Kitchen appliances presented a good mix of clear, verifiable attributes (e.g., “Brand”, “Power Source”) and complex, intricate ones that would require more indexer discretion (e.g., “Interface”). Specific descriptive attributes (metadata) were selected based on their ability to communicate relevant and accurate information to future anthropologists who would use the results to categorize appliances based on similarities and differences. This lumping and splitting (Weinberger, 2007, chapter 4) would enable the anthropologists to make

inferences about the behavior of the people who used these appliances.

In creating the database, Team 02 had to determine how best to organize, capture, and present the metadata of the kitchen appliances. Finding a balance between fields that displayed binary options, multiple options, and open text entry was key. The team needed to strike the right balance between a controlled vocabulary that it established through field values and validations lists (e.g., “Device type” and “Primary color”) and the creation of a natural vocabulary that it encouraged through open text fields (e.g., “Interface” and “Brand/manufacturer”). All decisions about database design were made with the end user in mind (Rowley & Hartley, 2008, p. 110). Will this field present relevant, accurate, and complete information that the future anthropologist can use in his/her research? Will the data the anthropologist needs be accessible through the database? The team also considered the indexers in the database design, preparing rules that would aid and direct their scanning of collection items (Farrow, 1991). The descriptive attributes were somewhat limited by the structures of the assignment, as the team wanted, whenever possible, to test the utility of the rules/guidelines by choosing attributes that the beta testing team would have to determine through observation rather than rote copying of information from supplementary documents. For instance, while “Frequency of Use” would doubtlessly be a useful attribute for the proposed user base (and was, in an earlier phase, part of the database), Team 02 chose to eliminate it as there would be no way for the beta testers to ascertain this information other than being told directly. Indexing rules were written to explain how to correctly examine the collection items and to alleviate confusion about what constituted an appropriate field value. Examples were provided as an additional layer of instruction and clarification.

Finally, Team 02 verified that the database could indeed gather the information it was intended to hold by entering test records. Fields and field values that required adjustment were discovered and updated accordingly (e.g., changing “Age” to “Length of ownership”). The results of beta testing will provide Team 02 with additional, objective information about how the database, indexing rules, and field values perform. This feedback will be integral to improving the database and ensuring that it is a vital and accessible storehouse of information for future anthropologists.



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