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## Data Dictionary

### Objectives

Upon successful completion of this chapter, you will be able to:

- Explain how to navigate and effectively use the Data Dictionary



## Data Dictionary Overview

### *Data Dictionary Overview*



#### ► **Central Source of Database Information**

- Contains Table and Column Information
  - Definitions and Help Text
  - Attributes, Key, and GUI Information
  - Valid Values
  - Associated View Name

#### ► **Conforms to Facets Reporting Structure for printing Database documentation**

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Data Dictionary runs on either a full or runtime version of Access 2000 making it similar to reporting, although it functions as a completely stand alone database.

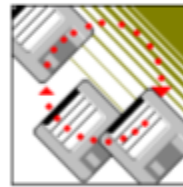


## Data Dictionary Release 5.x

### *Data Dictionary Release 5.x*



- ▶ **Separate MS Access 2007 Database**
- ▶ **Data Dictionary User Guide**
  - Navigating
  - Database Definitions
  - Reports



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The Facets Data Dictionary User Guide provides instructions for installing and navigating the application. The MS Access 2007 database file name for Data Dictionary is CDSDD501.accdb.



## Using the Data Dictionary Product Navigator

### *Using the Data Dictionary Product Navigator*



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After a user first accesses the application, a divided screen displays.

### **Application Groups**

In the Application Groups window, two application groups appear by default:

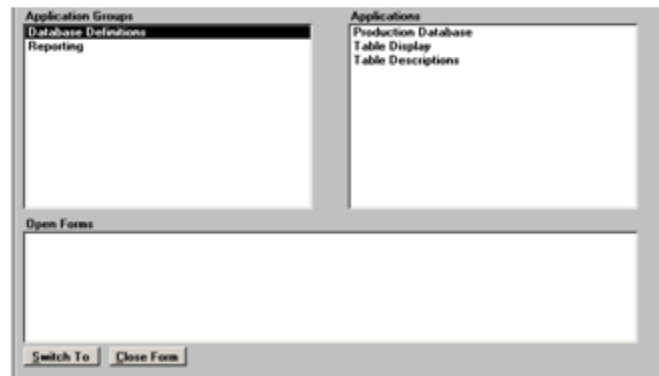
- Database Definitions
- Reporting





## Using the Data Dictionary Database Definition

### *Using the Data Dictionary Database Definition*



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## Applications

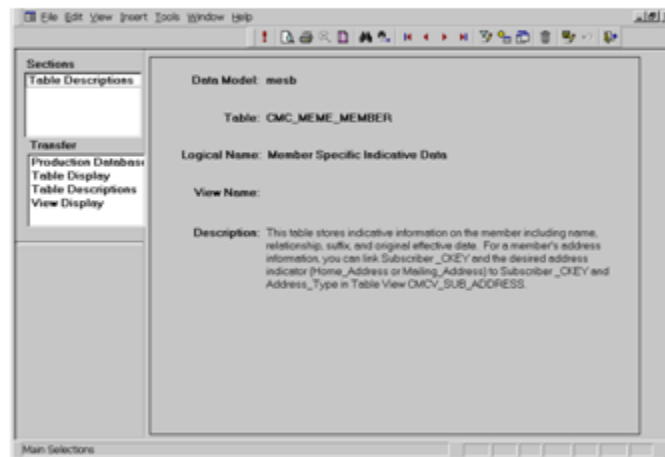
Selecting a group displays three sub-applications in the *Applications* window:

- |                            |   |
|----------------------------|---|
| <b>Production Database</b> | Not a connection to the Facets production database, but where you will find all definitions |
| <b>Table Display</b>       | Displays the columns of the table in order  |
| <b>Table Descriptions</b>  | Provides a brief description of how tables function within the database                     |



## Using the Data Dictionary Table Descriptions

### *Using the Data Dictionary Table Descriptions*



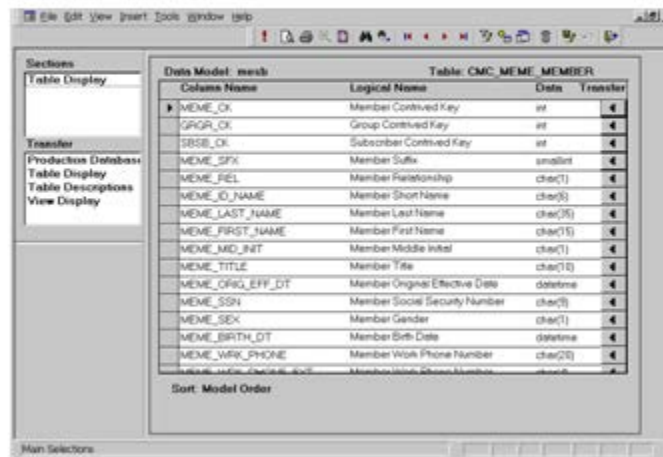
A Table Description contains the:

- domain in which each table belongs
- full name of the table
- logical name of the table
- view name, if available
- short paragraph that describes the table



## Using the Data Dictionary Table Display

### Using the Data Dictionary Table Display

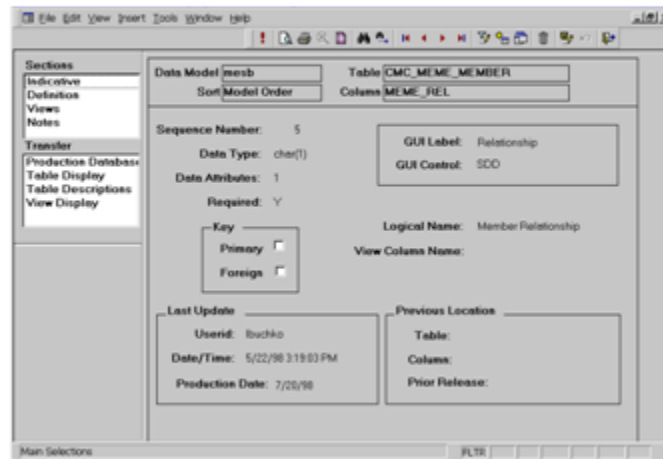
Column Name	Logical Name	Data	Transfer
MEME_OK	Member Continued Key	int	←
GROR_OK	Group Continued Key	int	←
SRSB_OK	Subscriber Continued Key	int	←
MEME_SFX	Member Suffix	smallint	←
MEME_REL	Member Relationship	char(1)	←
MEME_ID_NAME	Member Short Name	char(3)	←
MEME_LAST_NAME	Member Last Name	char(35)	←
MEME_FIRST_NAME	Member First Name	char(15)	←
MEME_MID_INIT	Member Middle Initial	char(1)	←
MEME_TITLE	Member Title	char(10)	←
MEME_ORIG_EFF_DT	Member Original Effective Date	datetime	←
MEME_SSN	Member Social Security Number	char(9)	←
MEME_SEX	Member Gender	char(1)	←
MEME_BIRTH_DT	Member Birth Date	datetime	←
MEME_WRK_PHONE	Member Work Phone Number	char(20)	←
MEME_WRK_PHONE	Member Work Phone Number	char(20)	←

The Table Display contains the columns by the logical name of the column and then by attribute type. Arrows on the right side of the screen guide users to the *Indicative* page for the selected column.



## Using the Data Dictionary Production Database Indicative Panel

### *Using the Data Dictionary Production Database Indicative Panel*



This is an example of an **Indicative** page. It tells about the column:

- Sequence order of the column
- Attribute and type
- Whether or not it is a required table element
- Whether or not it is a primary or foreign key
- GUI label associated with this column on the Interactive Client
- Displays “Auditing Enabled” if used for auditing

A user may move to the **Definition** or **Notes** section in the top left box. In the lower left box, users may transfer to any of the sub-applications





## Using the Data Dictionary Production Database Definition Panel

### *Using the Data Dictionary Production Database Definition Panel*



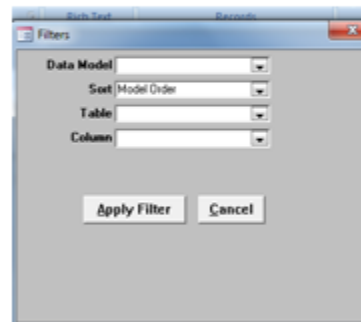
<b>Sections</b> Indicative <b>Definition</b> Notes Transfer Production Database Table Display Table Descriptions	Data Model: <input type="text" value="memb"/>	Table: <input type="text" value="CMC_MEME_MEMBER"/>																		
	Sort: <input type="text" value="Model Order"/>	Column: <input type="text" value="MEME_REL"/>																		
	Data Definition: Member's relationship to the subscriber.																			
	Help Enterable: Select the code that indicates this member's relationship to the subscriber.																			
Help Display: Select the code that indicates this member's relationship to the subscriber. If this member is the subscriber, Facets displays the Subscriber code.																				
Edit Criteria: If this member is the subscriber, this selection is optional. The system assigns the code 'M' to the subscriber.																				
<table border="1"> <thead> <tr> <th>Valid Values</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td><input type="radio"/></td> <td>D</td> <td>Daughter</td> </tr> <tr> <td><input type="radio"/></td> <td>H</td> <td>Husband</td> </tr> <tr> <td><input checked="" type="radio"/></td> <td>M</td> <td>Subscriber</td> </tr> <tr> <td><input type="radio"/></td> <td>O</td> <td>Other Dependent</td> </tr> <tr> <td><input type="radio"/></td> <td>S</td> <td>Spouse</td> </tr> </tbody> </table>			Valid Values	Value	Description	<input type="radio"/>	D	Daughter	<input type="radio"/>	H	Husband	<input checked="" type="radio"/>	M	Subscriber	<input type="radio"/>	O	Other Dependent	<input type="radio"/>	S	Spouse
Valid Values	Value	Description																		
<input type="radio"/>	D	Daughter																		
<input type="radio"/>	H	Husband																		
<input checked="" type="radio"/>	M	Subscriber																		
<input type="radio"/>	O	Other Dependent																		
<input type="radio"/>	S	Spouse																		
Record: <input type="text" value="1"/> of 6																				
Default Value: None																				

The **Definition** section gives configuration information, as well as a list of hard coded values, when applicable.



## Using the Data Dictionary Filter and Search

### *Using the Data Dictionary Filter and Search*



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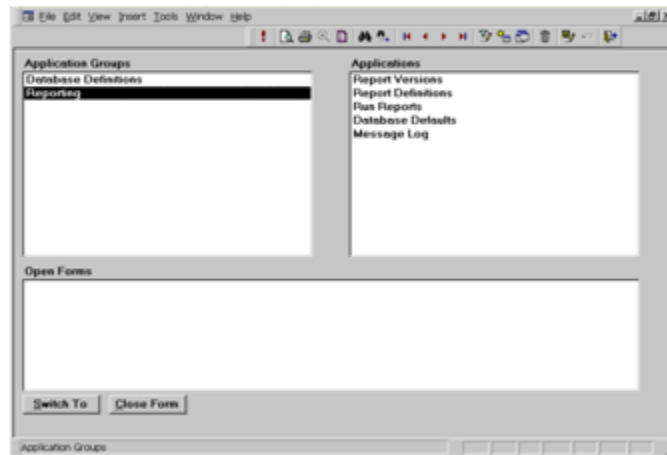
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In the **Search** filter, as users choose a domain, all tables in that domain populate the table dropdown box. After choosing a table, all columns for that table populate the column dropdown box.



## Using the Data Dictionary Reporting

### *Using the Data Dictionary Reporting*



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This is the Reporting application group.

Application Name	Description
Report Version	This is the version of the report the user wants to run.
Report Definition	This contains the columns identified on the report.
Run Reports	This identifies when to run reports.
Database Defaults	This defines the end of the week, month, or year, and any heading for the report.
Message Log	This captures messages while the report is running.

There is only one report with one version in the Reports application.









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## Objective Summary

You are now able to:

- Explain how to navigate and effectively use the Data Dictionary



## Coming Up

### *Coming Up*



**Next we will discuss:**

► **Plan Data Model**