

TMDB – MS Access DB

Screenshots and Core Functionality
Code Last Updated for MS Office 2013 Release

What The User Sees

Load .accde files to experience the Database as a User

Highlights of the Database

- This presentation does not show everything the Database has to offer.
- It just shows menus and some highlights of major features and functionality
- The UI is configurable code that could be used to build other code
- Since not everyone has MS Access on a home or work system, these slides will help you see what was built
- Slides in this section were use screen captures from:
TM-DB-MS2013v2_Demo.accde

Main Splash Screen

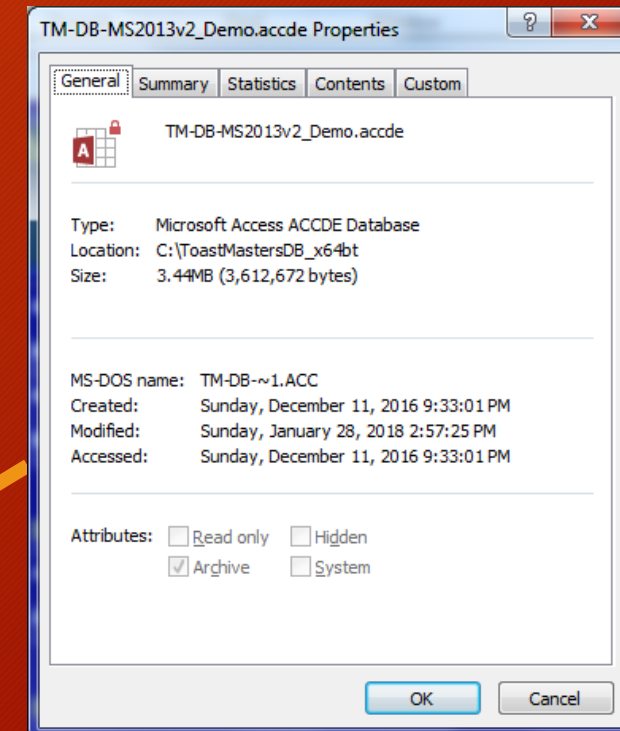
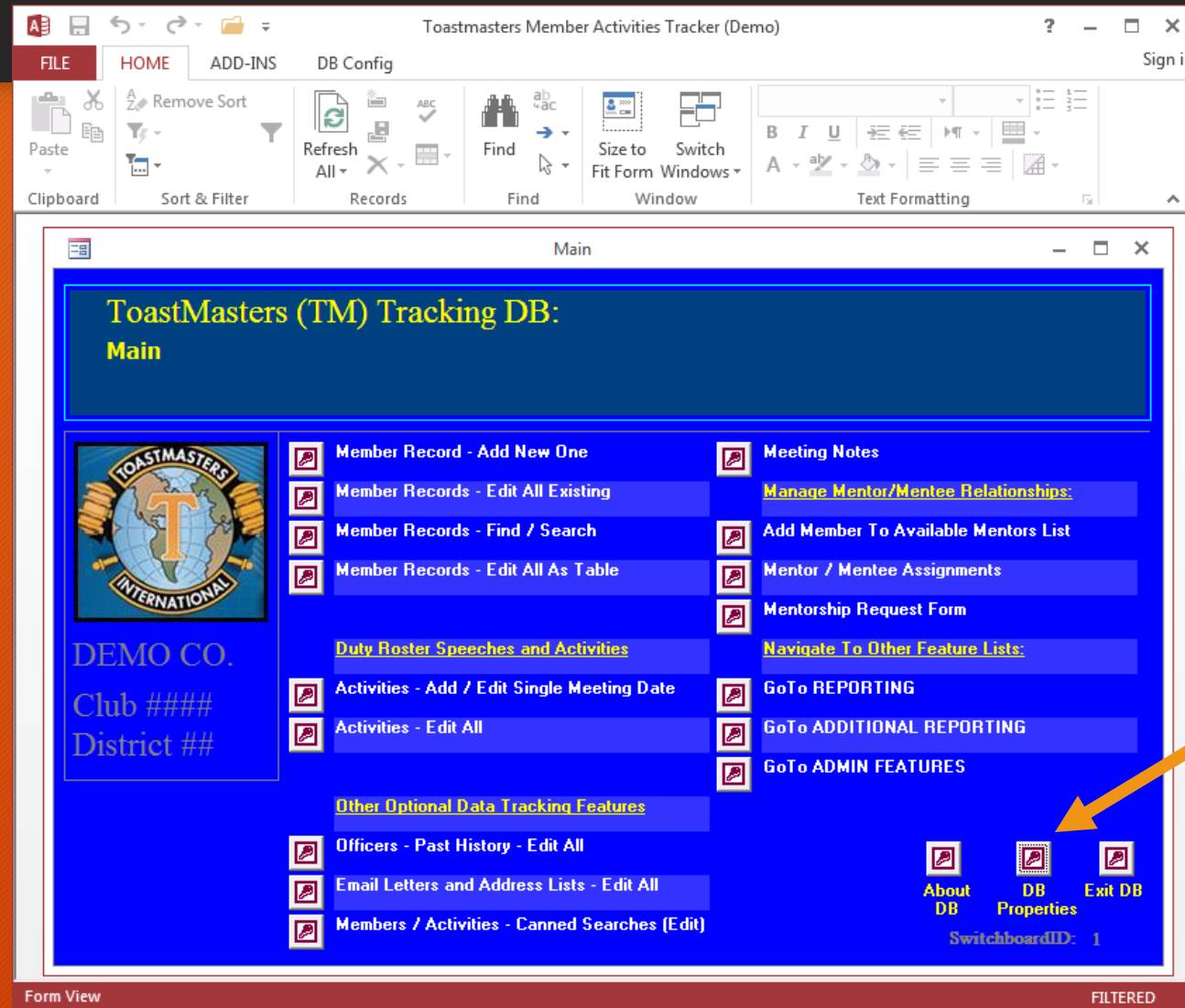
Yellow dashboard entries are headings

White entries trigger features or navigate to More dashboards with more feature links

Features include:

- Forms for Variety of Tasks
- Data Views
- Reporting that Exports Data to Excel
- Etc.

Corner buttons appear on all Dashboards



Add/Edit Club Member Records

Main Data Entry Form - By Member Records - Toastmasters Member Activities Tracker (Demo)

FILE HOME ADD-INS DB Config Sign in

Paste Filter Ascending Descending Remove Sort Refresh All Find Size to Fit Form Switch Windows Text Formatting

Member Records

Database Rec. ID # Refresh

Member Name *

Member Type *

Main Info Additional Information

Email

phone

Date Member Joined

Certifications

Date of Last Certification

Enter # Speeches -
Not in DB (Number will be added to speech total)

Dashboard:

User Statistics

User Summary Statistics

☒ Available To Be A Mentor

Member_Activities subform

Navigation: Previous, Next, Home, Delete, Refresh

Date Filter Options

Required Fields:

TM Meeting Date	What Member Did
8/11/2009	Role - Word of the Day
8/4/2009	Table Topic Volunteer
7/21/2009	Present (no other role filled)
7/14/2009	Role - Evaluator
7/7/2009	Table Topic Volunteer
6/23/2009	Present (no other role filled)
* 1/11/2011	

Record: 1 of 6 Unfiltered Search

Available To Be A Mentor (May or May not be assigned)

Clicking Additional Information tab:

Main Info Additional Information


Member - Website ID


Record Status:

Record Notes:

Clicking Dashboard Buttons (Prev. Screen)

Dashboard:

**User Statistics**

**User Summary Statistics**

☒ Available To Be A Mentor

Member Dashboard - Toastmasters Member Activities Tracker (Demo)

Member_Name	What Member Did	Count
Arthur Dent	Custom Participation - Attendance/Reporting	0
Arthur Dent	Custom Participation - Escort Guests	0
Arthur Dent	Present (no other role filled)	2
Arthur Dent	Role - Club Officer Training - Attendee	0
Arthur Dent	Role - Evaluator	1
Arthur Dent	Role - General Evaluator	0
Arthur Dent	Role - Gramarian	0
Arthur Dent	Role - Humorist	0
Arthur Dent	Role - Special Meetings - Other	0
Arthur Dent	Role - Table Topics Master	0
Arthur Dent	Role - Timer	0
Arthur Dent	Role - Toastmaster	0
Arthur Dent	Role - Word of the Day	1
Arthur Dent	Role - Workshop - Attendee	0
Arthur Dent	Role - Workshop - Chair	0
Arthur Dent	Role - Workshop - Presenter	0
Arthur Dent	Speeches - In DB	0
Arthur Dent	Table Topic Volunteer	2

Member Summary Statistics Dashboard - Toastmasters Member Activ

Member_Name	Activity Type	Count
Arthur Dent	Other Participation (Not Roles or Speeches)	4
Arthur Dent	Speeches - In DB	0
Arthur Dent	Speeches - Number Entered Manually	50
Arthur Dent	Speeches - Total	50
Arthur Dent	TM Roles	2


Searching For Specific Member Records

Toastmasters Member Activities Tracker (Demo)

FILE HOME ADD-INS DB Config Sign in

Main

ToastMasters (TM) Tracking DB:
Main

 DEMO CO.
Club ####
District ##

- Member Record - Add New One
- Member Records - Edit All Existing
- Member Records - Find / Search
- Member Records - Edit / Delete Table

Duty Roster Speeches and Activities

- Activities - Add / Edit Single Meeting
- Activities - Edit All

Other Optional Data Tracking Features

- Officers - Past History - Edit All
- Email Letters and Address Lists - Edit All
- Members / Activities - Canned Search

Meeting Notes

Search Member Records For Specific Data

Instructions: Select single member to search by or leave blank to get all member records..

Instructions: Leave blank for all, or use this drop-down to filter activities by role, speech, or other participation. End with "*" to perform Starts-With search:

Activity:

Instructions: Enter Single Date For Just that one day's activities, or enter range starting "From" and going "To". Date range includes the dates you enter, or leave blank to include all dates in your search.

DATES Must Be MM/DD/YYYY Format

Activity Date Range:

From: ...

To: ...

Records To Display:

Form View

For Technical Users

- Search Screen exposes Query logic used by user selections
- This can help users understand SQL
- This can help admins debug a problem should one come up

Search Member Records For Specific Data

Instructions: Select single member to search by or leave blank to get all member records..

Member: Abraham Lincoln

Instructions: Leave blank for all, or use this drop-down to filter activities by role, speech, or other participation. End with "*" to perform Starts-With search:

Activity: Role - General Evaluator

Instructions: Enter Single Date For Just that one day's activities, or enter range starting "From" and going "To". Date range includes the dates you enter, or leave blank to include all dates in your search.

DATES Must Be MM/DD/YYYY Format

Activity Date Range:

From: ...

To: ...

Records To Display:

Basic Parameters:
Name: Abraham Lincoln
Activity: Role - General Evaluator
start date:
end date:

Filter Logic:
Main Form Filter:
((Member_Records.[Member Name]='Abraham Lincoln'))

Sub-Form Filter:
(((Lookup_What Member Did].ItemValue like 'Role - General Evaluator'))

Search **Cancel** **Reset Form**

Editing Child Records by Specific Meeting Date

Duty Roster Speeches and Activities **Navigate To 0**

Activities - Add / Edit Single Meeting Date **GoTo REPORT**

Single Date

Enter Date

OK

Cancel

01-28-2018

Members / Activities - Current Searches (Edit)

Single Date

Enter Date

OK

Cancel

11-23-2010

Member_Activities_byDate

Navigation icons: Previous, Next, Home, Refresh, Print

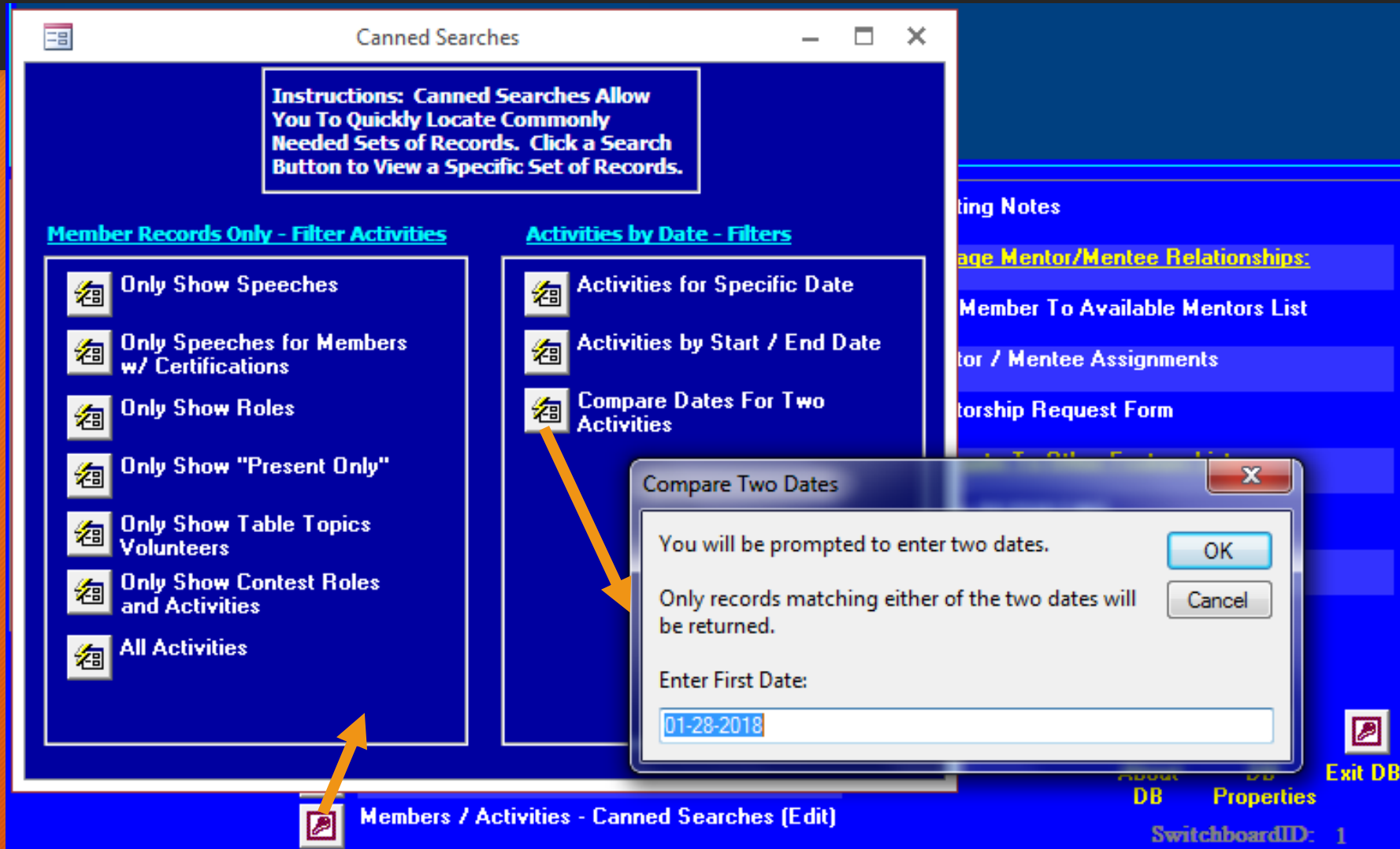
Date Filter Options Reload Form

Required Fields: Optional - Displays Last Entered Data:

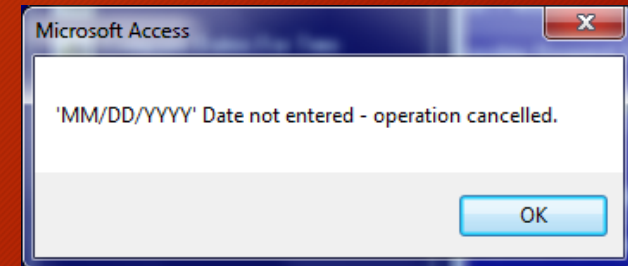
TM Meeting Date	What Member Did	Member Name	Member Type	Email	Phone
11/23/2010	Role - Special Meetings - Other	William Adama	Guest	William_Adama@fakeAd	111-111-1111
11/23/2010	Table Topic Volunteer	Marie Curie	Officer - VP of Edu	Marie_Curie@fakeAddres	111-111-1111
11/23/2010	Role - Special Meetings - Other	Marie Curie	Officer - VP of Edu	Marie_Curie@fakeAddres	111-111-1111
11/23/2010	Role - General Evaluator	Morgan La Fe	Guest	Morgan_La_Fe@fakeAdc	111-111-1111
11/23/2010	Role - Timer	Phoebe Buffet	Guest	Phoebe_Buffet@fakeAdd	111-111-1111
11/23/2010	Role - Word of the Day	Dan Browne	Officer - Seargent	Dan_Browne@fakeAddre	111-111-1111

Record: 1 of 18 Filtered Search

Canned Searches w/ Prompts to User



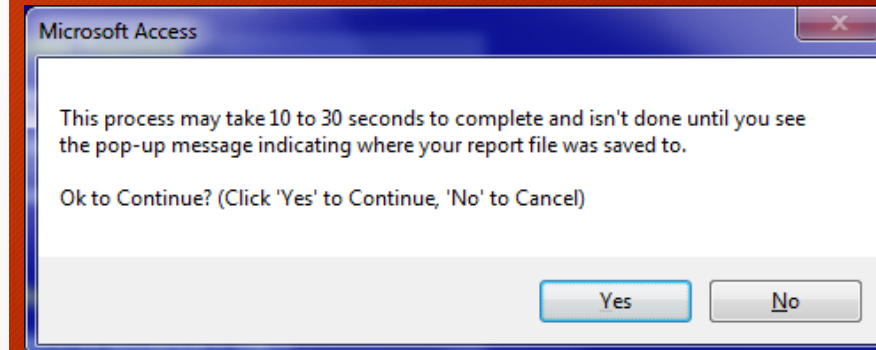
Example: User hits Enter w/o entering date:



Reporting Buttons Output Content To Excel

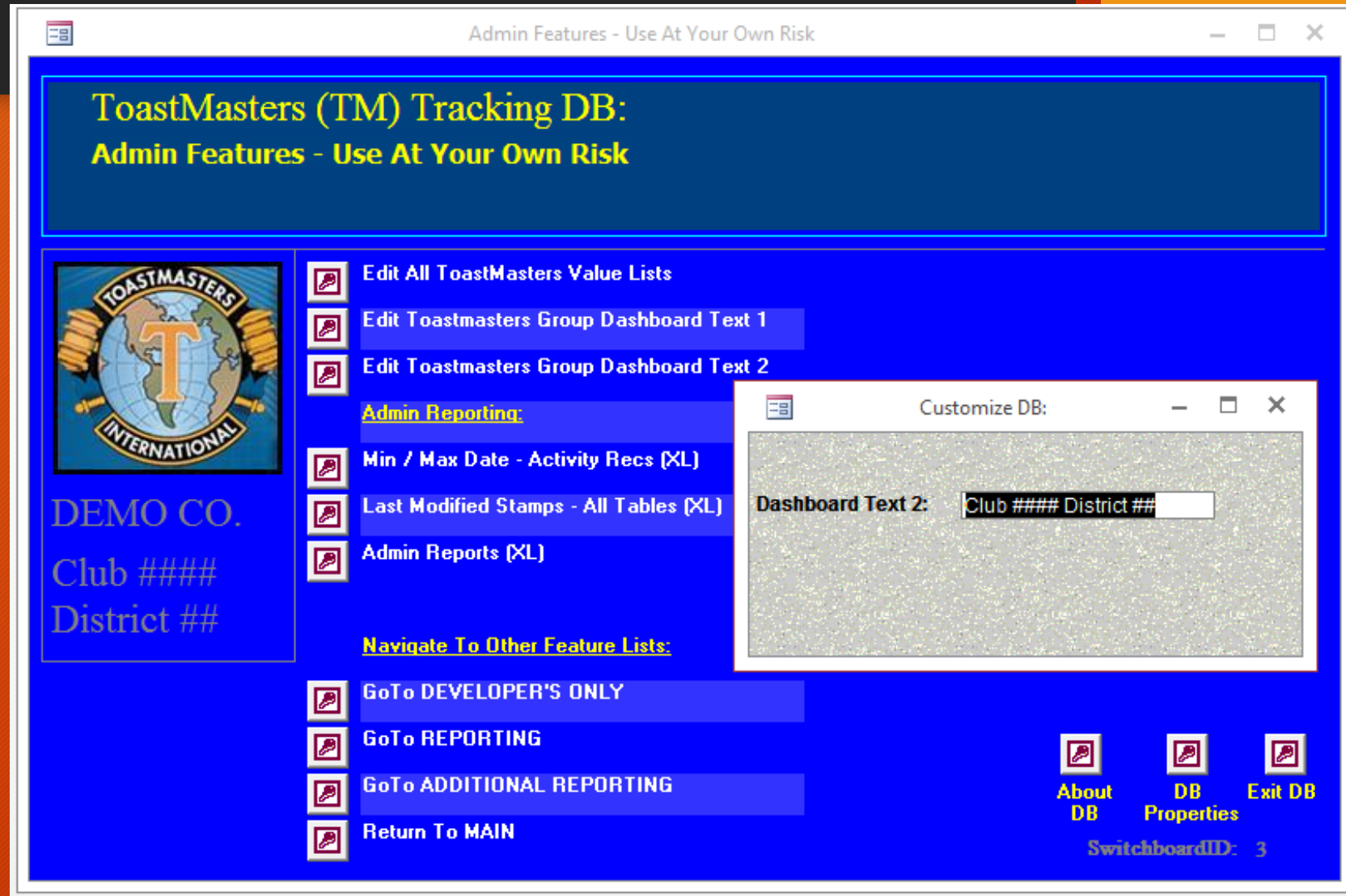


Messages warn users and allow them To cancel for reporting processes that May take a while:



Admin Features

- Admin features allow limited customization of the text displayed by the UI and presents reporting more useful to Admins than general Users



This Includes Editing Lists Used in Drop Downs

ToastMasters (TM) Tracking DB:
Admin Features - Use At Your Own Risk



DEMO CO.
Club 1234
District 75

Edit All ToastMasters Value Lists

Sys_Categories

Category ID:

Category Name:

About This List:

ToastMasters Roles that users can sign up for on the Toastmasters Duty Roster. Important! - Role values must begin with the text 'Role - ' or 'Role - Contest - ' or built-in queries and features may fail to work properly. Changing an item on this panel automatically updates all records in the database for which that item was selected. Deleting an item can result in problems throughout the database. Other than adding new values, this panel should only be modified if you are positive you understand what you are doing and what it's implications are to the code and data of this DB.

Sys_CategoryItems subform

Resort Items

ItemValue	ItemValue2	Sort Order
Role - Toastmaster		0
Role - Evaluator		10
Role - Timer		10
Role - Gramarian		10
Role - Table Topics Master		10
Role - General Evaluator		10
Role - Word of the Day		10
Role - Humorist		10
Role - Contest - Judge		15
Role - Contest - Chief Judge		15
Role - Contest - Timer		15

Record: 1 of 20


No Filter

Search


Developer and Trusted User Only Features


Admin Features - Use At Your Own Risk


ToastMasters (TM) Tracking DB:
Admin Features - Use At Your Own Risk




DEMO CO.
Club 1234
District 75


 Edit All ToastMasters Value Lists


 Edit Toastmasters Group Dashboard Text 1

 Edit Toastmasters Group Dashboard Text 2


Admin Reporting:


 Min / Max Date - Activity Recs (XL)


 Last Modified Stamps - All Tables (XL)


 Admin Reports (XL)


Navigate To Other Feature Lists:


 GoTo DEVELOPER'S ONLY


 GoTo REPORTING

 GoTo ADDITIONAL REPORTING

 Return To MAIN

 About DB

 DB Properties

 Exit DB

SwitchboardID: 3

Enter Password

Enter Password:

Cancel

Submit

Password challenge locks
Down Developer Dashboard

Developer Perspective

Load .accdb for Admin Access to Source Code
.accde files generated from .accdb file

Developer Copy of The DB (On Load)

The screenshot shows the Microsoft Access application window titled "Toastmasters Member Activities Tracker (Working)". The interface is divided into three main sections:

- Left Pane (All Access Objects):** Contains a list of tables and queries. The "Tables" section includes: admin-dev-Log, DB_About, Sys_CategoriesAdmn (highlighted), Sys_CategoriesUsrs, Sys_CategoryItemsAdmn, DB_Notes, Meeting_Notes, Member_Activities, Member_OfficerHistory, Member_Records, Mentorship, Mentorship_Assignments, Switchboard Items, Sys_CategoryItemsUsrs, tm_roster_export, and zTemp_MemberNamesTable. The "Queries" section includes: aaa_EligibleMembers_Q1, ActivityDateRange_ThisDB_Q, Count_WhatMemberDid_byCategory_Q, Count_WhatMemberDid_ByItem_Q, Count_WMD_byCategory_All_UQ, Count_WMD_byCategory_All_UQ_2, CountInput_SpeechCategoriesCount, and CountRoles_SinceSpecDate_Input1_Q.
- Main Window (Main Form):** Features a blue background with the Toastmasters International logo and the text "Test Company Club #### District ##". It contains several menu items for managing the database:
 - Member Record - Add New One**
 - Member Records - Edit All Existing**
 - Member Records - Find / Search**
 - Member Records - Edit All As Table**
 - Meeting Notes**
 - Manage Mentor/Mentee Relationships:**
 - Add Member To Available Mentors List**
 - Mentor / Mentee Assignments**
 - Mentorship Request Form**
 - Duty Roster Speeches and Activities**
 - Navigate To Other Feature Lists:**
 - Activities - Add / Edit Single Meeting Date**
 - GoTo REPORTING**
 - Activities - Edit All**
 - GoTo ADDITIONAL REPORTING**
 - GoTo ADMIN FEATURES**
 - Other Optional Data Tracking Features**
 - Officers - Past History - Edit All**
 - Email Letters and Address Lists - Edit All**
 - Members / Activities - Canned Searches (Edit)**
- Bottom Right:** Includes buttons for "About DB", "DB Properties", and "Exit DB", along with the text "SwitchboardID: 1".

Scroll down of additional Objects in the “All Access Objects” Panel follows on Next Slide.

All Access Objects

Queries

- aaa_EligibleMembers_Q1
- ActivityDateRange_ThisDB_Q
- Count_WhatMemberDid_byCategory_Q
- Count_WhatMemberDid_ByItem_Q
- Count_WMD_byCategory_All_UQ
- Count_WMD_byCategory_All_UQ_2
- CountInput_SpeechCategoriesCount
- CountRoles_SinceSpecDate_Input1_Q
- CountRoles_SinceSpecifiedDate_Q
- CountRolesAndSpeeches_ReimbQuali...
- CountSpeeches_SinceSpecDate_Input...
- CountSpeeches_SinceSpecifiedDate_Q
- CountZero_WhatMemberDid_Input1_Q
- CountZero_WhatMembersDid_ByItem_Q
- CountZero_WMD_byCategory_Input1_Q
- CountZero_WMD_byCategory_Q
- LastModStamps_adminDevLog
- MeetingNotes_all_Q
- Member_MemberType_Input
- Member_Requests_forReporting_Q
- Members_ContactSheet1_mod2_Q
- Members_ContactSheet1_Q
- MembersFrm_SpeechesOnly_F
- MembersFrm_wCerts_SpeechesOnly_F
- Mentorship_Assignments_View_Q

Scrolling Further in All Access Objects Panel ...

All Access Objects

- Mentorship_Assignments_View_Q
- Mentorship_Availability_Q
- Officer_History_FullTable_Q
- Q_Check_Activities_ForDuplicates
- Q_Roster_DB_Comparison1
- Q_Roster_DBMembers_Not_On_Roster
- Q_Roster_Not_In_DB
- Roster_Summary_AllData_Input1_BAK
- Roster_Summary_AllData_input1_Q
- Roster_Summary_byDate_Q
- Roster_Summary_byDateRange_Q
- Roster_Summary_CompareTwoDates_Q
- SingleVal_ChapterOrDistrict
- SingleValue_Switchboard1
- SingleValue_SwitchBoard2
- TM_ControlLists_wIDs_Q
- zz_DataCheck_NonOfficer_RecTypeVs...
- zz_DataCheck_NonOfficer_RecTypeVs...
- zzDataCheck_MembersAgainstTempNa...
- zzDataCheck_MembersAgainstTempNa...
- zzDataCheck_TM_webIDs-missingFrDB
- zzDataCheck_TM_webIDs-missingFrWeb
- zzDataCheck_TM_webIDs-recCompare
- zzDataCheck-TMDataAndNamesTempT...
- Count_WhatMemberDid_All_UQ
- CountInput_ManualSpeechCount_Ent...

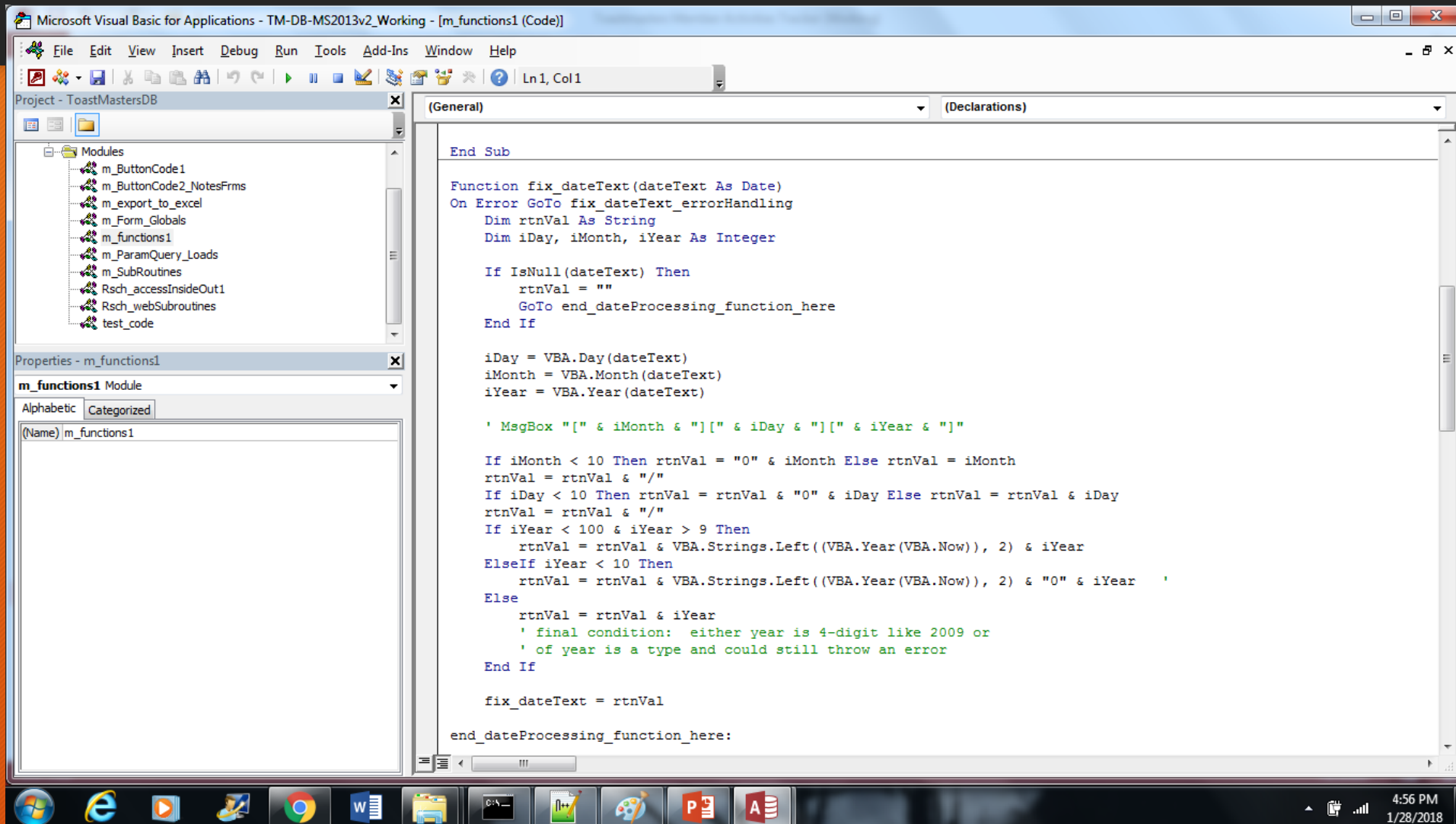
All Access Objects

- zzDataCheck-IMDataAndNamesTempI...
- Count_WhatMemberDid_All_UQ
- CountInput_ManualSpeechCount_Ent...
- LastModStamps_AllTables_Q
- Sys_Categories
- Sys_CategoryItems
- Demo_Query
- Kill_user_private_data
- zzUpdate_Members_to_GracedMems
- zzUpdate_RecordStatuToDeletedFrWeb
- Forms**
- Reports**
- Macros**
- Load_DB_Objects
- Simple_Access_Commands
- test_macros
- Modules**
- m_ButtonCode1
- m_ButtonCode2_NotesFrms
- m_export_to_excel
- m_Form_Globals
- m_functions1
- m_ParamQuery_Loads
- m_SubRoutines
- RsSch_accessInsideOut1
- RsSch_webSubroutines
- test_code

All Access Objects

- Forms**
- admin-dev-Log
- Calendar_Control
- Canned_Record_Filters
- Dashboard
- DB_Notes
- Enter_Password_Control
- Meeting_Notes
- Member_Activities_byDate
- Member_OfficerHistory
- Member_Records
- Member_Records_Mentors
- Mentee_Assignments
- Mentorship_Availability_Form
- Mentorship_Requests1
- Search_Main
- Switchboard
- Switchboard - Original
- Switchboard Table Editor
- Switchboard Table Editor subform
- Sys_Categories
- Sys_CategoryItems subform
- TestForm_ButtonCode1
- view_report_dataSheet_blank
- Reports**
- Macros**
- Load_DB_Objects

Code Modules In MS Access VB



SQL in MS Access

The screenshot displays the Microsoft Access application window. The title bar reads "LastModStamps_AllTables_Q - Toastmasters Member Activities Tracker (Working)". The ribbon includes "FILE", "HOME", "CREATE", "EXTERNAL DATA", "DATABASE TOOLS", "ADD-INS", "DB Config", and "QUERY TOOLS". The "DESIGN" tab is active under "QUERY TOOLS".

The "All Access Objects" pane on the left lists various objects, with "LastModStamps_AllTables_Q" highlighted. The main window shows the SQL query in Design view:

```
SELECT Member_Records.[Last Modified User], Max(Member_Records.[Last Modified DateTime]) AS [Max-ModDateTime],  
'Member_Records' AS [Table]  
FROM Member_Records  
GROUP BY Member_Records.[Last Modified User], 'Member_Records'  
  
union  
  
SELECT Member_Activities.[Last Modified User], Max(Member_Activities.[Last Modified DateTime]) AS [Max-ModDateTime],  
'Member_Activities' AS [Table]  
FROM Member_Activities  
GROUP BY Member_Activities.[Last Modified User], 'Member_Activities'  
  
union  
  
SELECT Member_OfficerHistory.[Last Modified User], Max( Member_OfficerHistory.[Last Modified DateTime]) AS [Max-ModDateTime],  
'Member_OfficerHistory' AS [Table]  
FROM Member_OfficerHistory  
GROUP BY Member_OfficerHistory.[Last Modified User], ' Member_OfficerHistory'  
  
union  
  
SELECT Sys_Categories.[Last Modified User], Max(Sys_Categories.[Last Modified DateTime]) AS [Max-ModDateTime], 'Sys_Categories' AS  
[Table]  
FROM Sys_Categories  
GROUP BY Sys_Categories.[Last Modified User], 'Sys_Categories'  
  
union  
  
SELECT Sys_CategoryItems.[Last Modified User], Max(Sys_CategoryItems.[Last Modified DateTime]) AS [Max-ModDateTime],  
'Sys_CategoryItems' AS [Table]  
FROM Sys_CategoryItems  
GROUP BY Sys_CategoryItems.[Last Modified User], 'Sys_CategoryItems'  
  
UNION SELECT DB_Notes.[Last Modified User], Max(DB_Notes.[Last Modified DateTime]) AS [Max-ModDateTime], 'DB_Notes' AS [Table]  
FROM DB_Notes  
GROUP BY DB_Notes.[Last Modified User], 'DB_Notes'  
ORDER BY [Table], [Last Modified User], [Max-ModDateTime];
```

The "Property Sheet" pane on the right shows the "General" tab for the query. It includes the following properties:

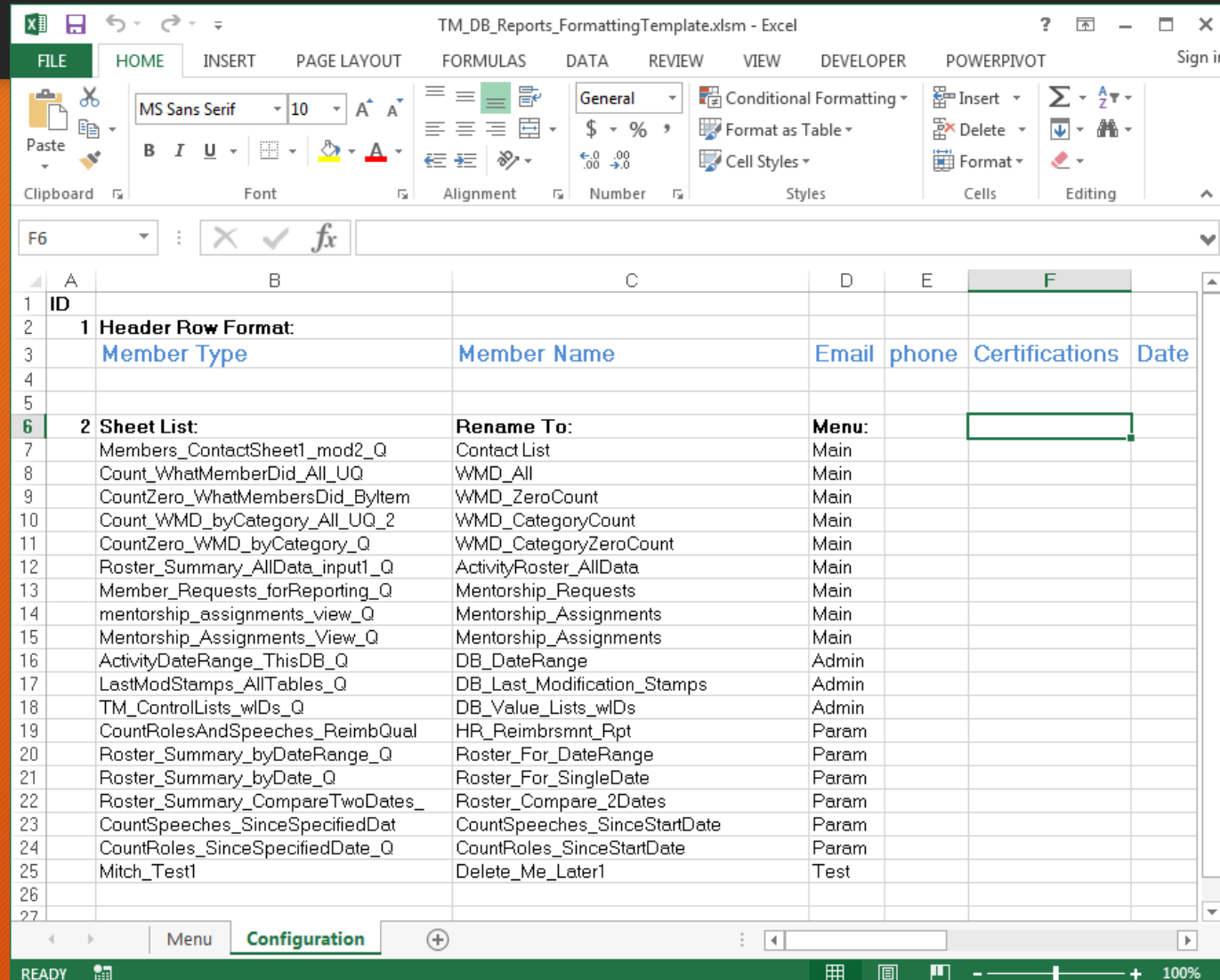
Property	Value
Description	First Use - Admin Switchboard
Default View	Datasheet
Record Locks	No Locks
ODBC Timeout	60
Filter	
Order By	
Max Records	
Orientation	Left-to-Right
Subdatasheet Name	
Link Child Fields	
Link Master Fields	
Subdatasheet Height	0"
Subdatasheet Expand	No
Filter On Load	No
Order By On Load	Yes

The Windows taskbar at the bottom shows the system clock as 4:59 PM on 1/28/2018, with the status "Ready".

Reporting In Excel

- Reporting start the process from MS Access
- Then it Hands The results of SQL Queries off to Excel
- In Excel, a Template w/ DB takes over the process using Excel VB
- Access waits for it to finish and provides the user with a helpful message about where to find the resulting report

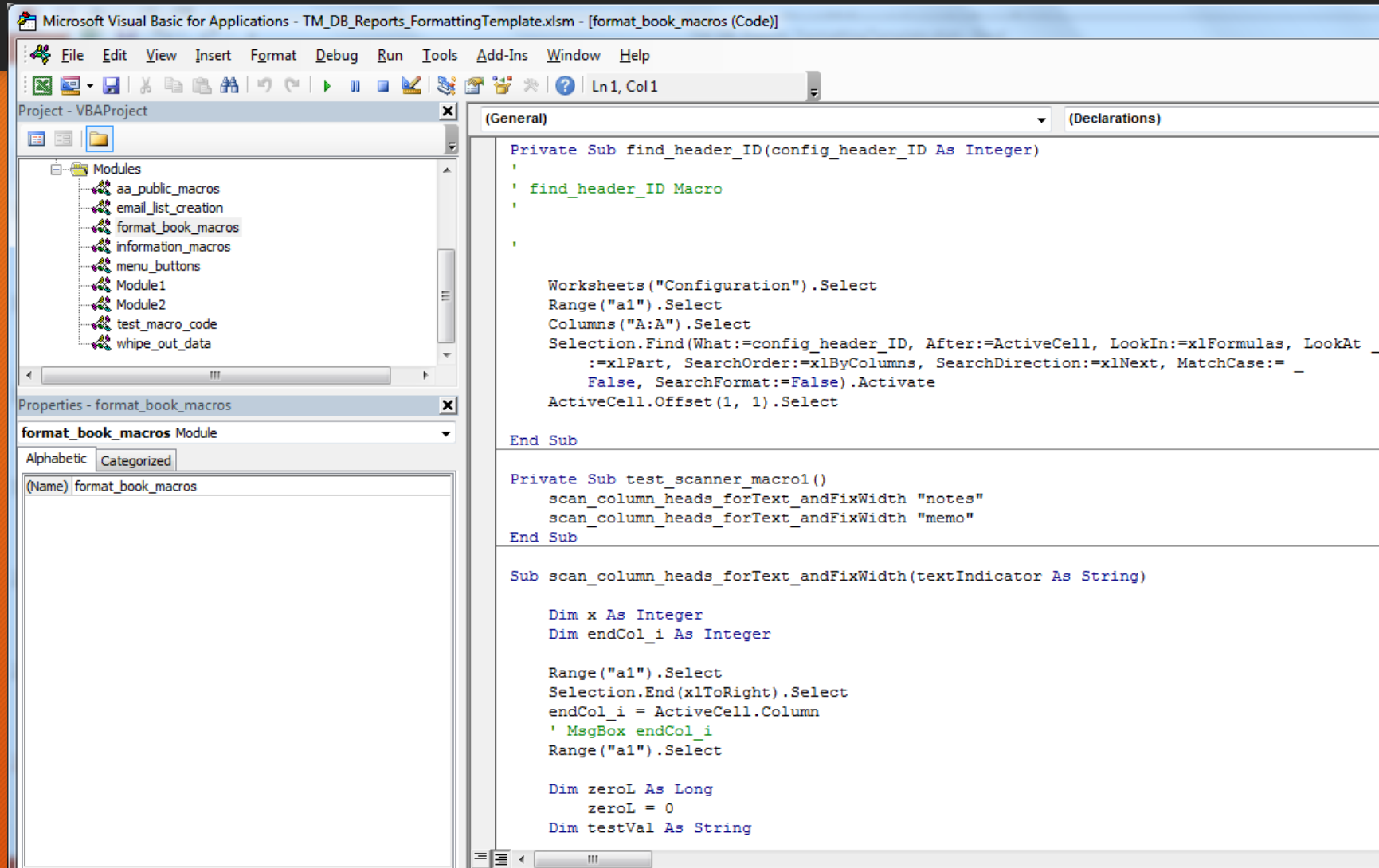
Excel File: Configuration Tabs



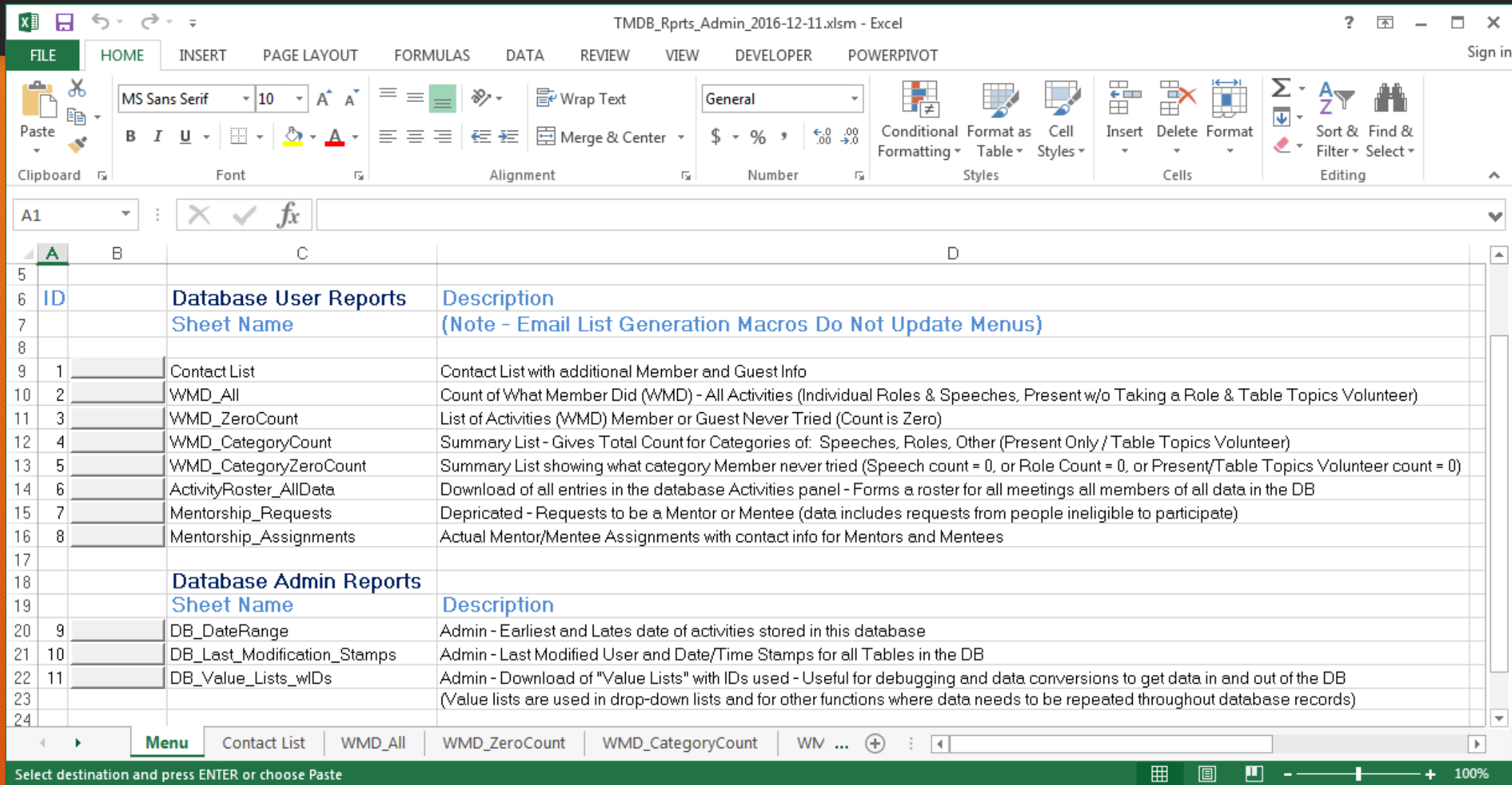
ID	Member Type	Member Name	Email	phone	Certifications	Date
6	2 Sheet List:	Rename To:	Menu:			
7	Members_ContactSheet1_mod2_Q	Contact List	Main			
8	Count_WhatMemberDid_All_UQ	WMD_All	Main			
9	CountZero_WhatMembersDid_ByItem	WMD_ZeroCount	Main			
10	Count_WMD_byCategory_All_UQ_2	WMD_CategoryCount	Main			
11	CountZero_WMD_byCategory_Q	WMD_CategoryZeroCount	Main			
12	Roster_Summary_AllData_input1_Q	ActivityRoster_AllData	Main			
13	Member_Requests_forReporting_Q	Mentorship_Requests	Main			
14	mentorship_assignments_view_Q	Mentorship_Assignments	Main			
15	Mentorship_Assignments_View_Q	Mentorship_Assignments	Main			
16	ActivityDateRange_ThisDB_Q	DB_DateRange	Admin			
17	LastModStamps_AllTables_Q	DB_Last_Modification_Stamps	Admin			
18	TM_ControlLists_wlDs_Q	DB_Value_Lists_wlDs	Admin			
19	CountRolesAndSpeeches_ReimbQual	HR_Reimbrsmnt_Rpt	Param			
20	Roster_Summary_byDateRange_Q	Roster_For_DateRange	Param			
21	Roster_Summary_byDate_Q	Roster_For_SingleDate	Param			
22	Roster_Summary_CompareTwoDates_	Roster_Compare_2Dates	Param			
23	CountSpeeches_SinceSpecifiedDat	CountSpeeches_SinceStartDate	Param			
24	CountRoles_SinceSpecifiedDate_Q	CountRoles_SinceStartDate	Param			
25	Mitch_Test1	Delete_Me_Later1	Test			

Some simple changes to reporting code
Are handled as simple edits to the
Excel file without having to edit the code

Excel VB (To Complete Reporting)



Menu Tab on Detailed Excel Workbook Output



TMDb_Rpts_Admin_2016-12-11.xlsm - Excel			
FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW DEVELOPER POWERPIVOT			
Clipboard Font Alignment Number Styles Cells Editing			
A1			
5			
6	ID	Database User Reports	Description
7		Sheet Name	(Note - Email List Generation Macros Do Not Update Menus)
8			
9	1	Contact List	Contact List with additional Member and Guest Info
10	2	WMD_All	Count of What Member Did (WMD) - All Activities (Individual Roles & Speeches, Present w/o Taking a Role & Table Topics Volunteer)
11	3	WMD_ZeroCount	List of Activities (WMD) Member or Guest Never Tried (Count is Zero)
12	4	WMD_CategoryCount	Summary List - Gives Total Count for Categories of: Speeches, Roles, Other (Present Only / Table Topics Volunteer)
13	5	WMD_CategoryZeroCount	Summary List showing what category Member never tried (Speech count = 0, or Role Count = 0, or Present/Table Topics Volunteer count = 0)
14	6	ActivityRoster_AllData	Download of all entries in the database Activities panel - Forms a roster for all meetings all members of all data in the DB
15	7	Mentorship_Requests	Deprecated - Requests to be a Mentor or Mentee (data includes requests from people ineligible to participate)
16	8	Mentorship_Assignments	Actual Mentor/Mentee Assignments with contact info for Mentors and Mentees
17			
18		Database Admin Reports	
19		Sheet Name	Description
20	9	DB_DateRange	Admin - Earliest and Latest date of activities stored in this database
21	10	DB_Last_Modification_Stamps	Admin - Last Modified User and Date/Time Stamps for all Tables in the DB
22	11	DB_Value_Lists_wIDs	Admin - Download of "Value Lists" with IDs used - Useful for debugging and data conversions to get data in and out of the DB (Value lists are used in drop-down lists and for other functions where data needs to be repeated throughout database records)
23			
24			
Menu Contact List WMD_All WMD_ZeroCount WMD_CategoryCount WMD ...			

The menu
Tab on reporting
Workbooks can be
Edited in the Code
Excel file w/o
Needing to edit
Actual VB code

Code modifies
This tab for each
Report type