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
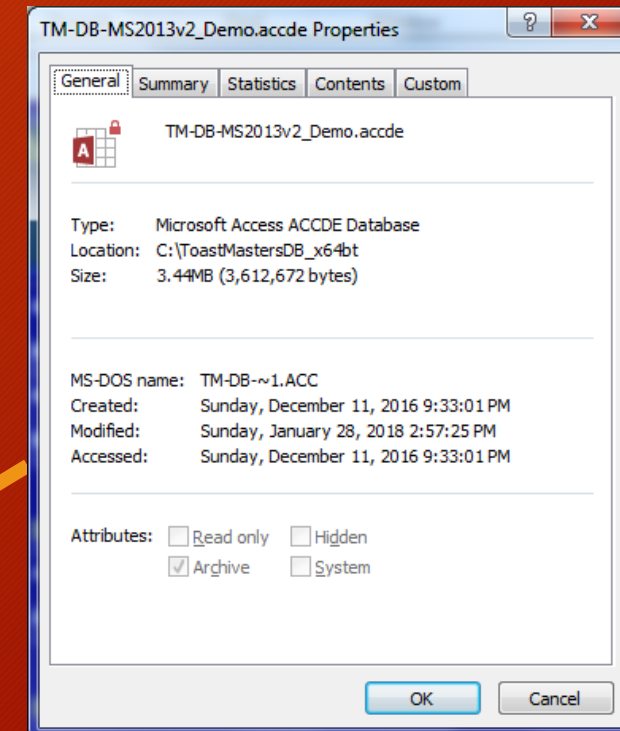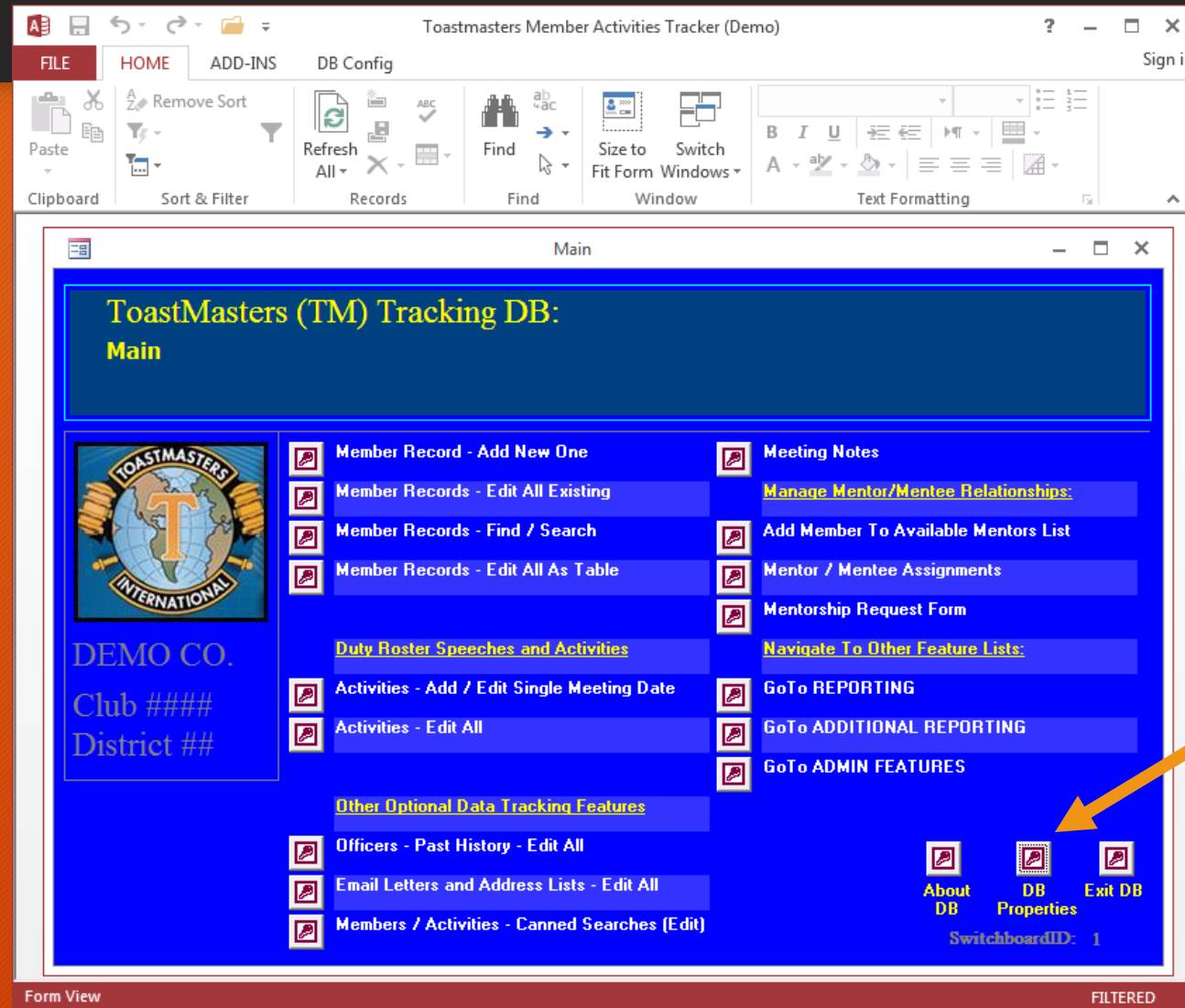
Main Splash Screen

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

Clicking Additional Information tab:

Clicking Dashboard Buttons (Prev. Screen)

Searching For Specific Member Records

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

Editing Child Records by Specific Meeting Date

Canned Searches w/ Prompts to User
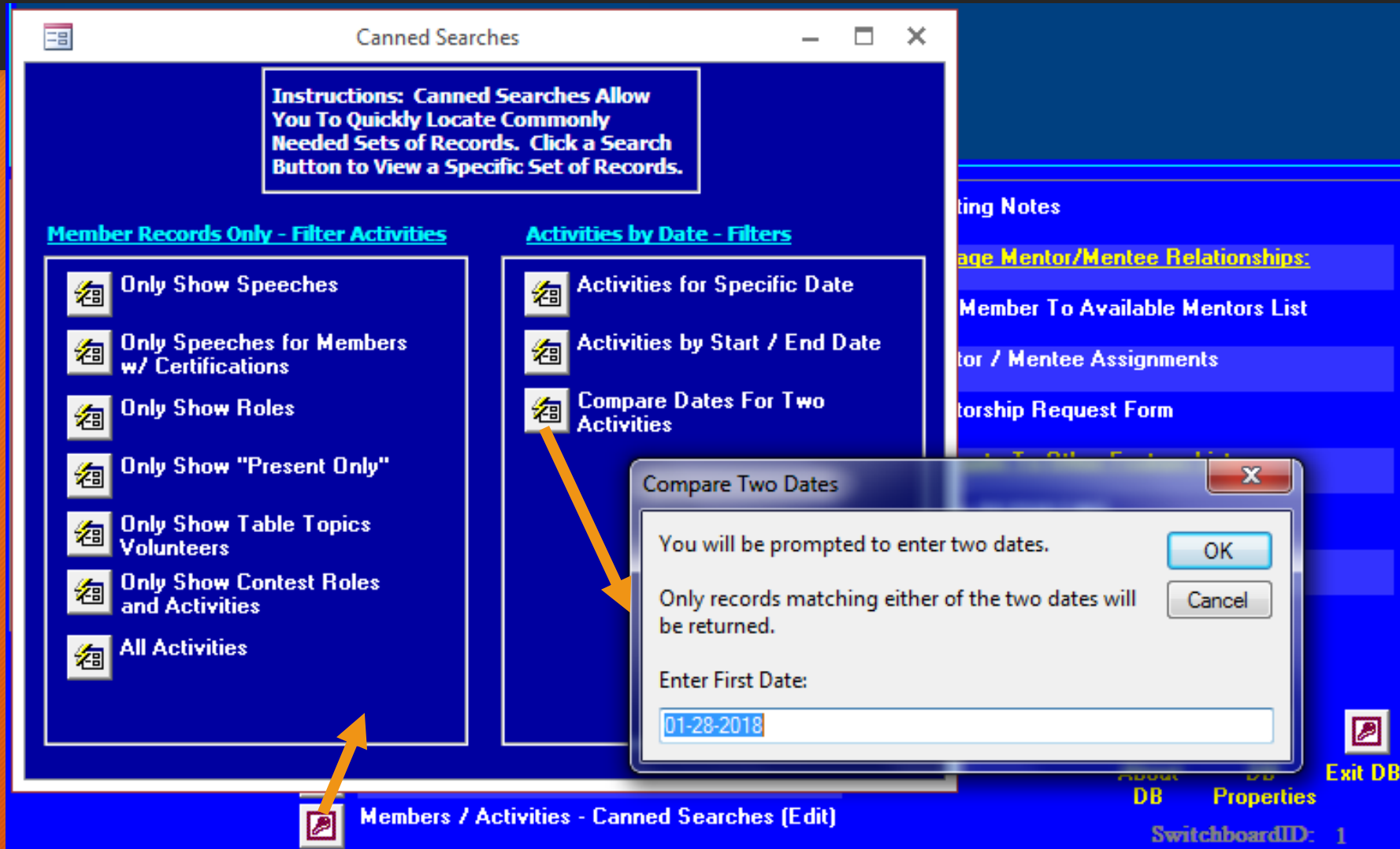
Example: User hits Enter w/o entering date:
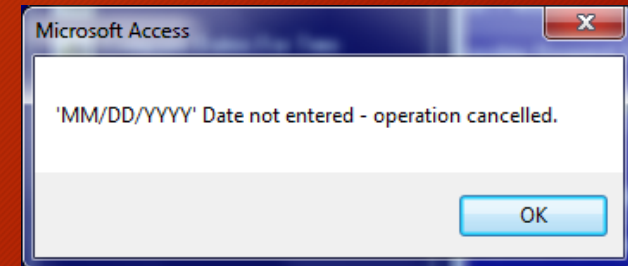
Reporting Buttons Output Content To Excel

ToastMasters (TM) Tracking DB:
Reporting – Access All Reports Here

DEMO CO.

Club ####
District ##

Member Speech Count Since Input Date (XL)

Member Role Count Since Input Date (XL)

HR Reimbursement Criteria Test Report (XL)

Main Reports - Members and Guests (XL)

Officer History (XL)

Meeting Notes (XL)

Contact List w Speech and Cert Info (XL)

Navigate To Other Feature Lists:

GoTo ADDITIONAL REPORTING

Return To MAIN

GoTo ADMIN FEATURES

GoTo DEVELOPER'S ONLY

About DB

DB Properties

Exit DB

SwitchboardID: 100

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

Microsoft Access

This process may take 10 to 30 seconds to complete and isn't done until you see the pop-up message indicating where your report file was saved to.

Ok to Continue? (Click 'Yes' to Continue, 'No' to Cancel)

Yes   No
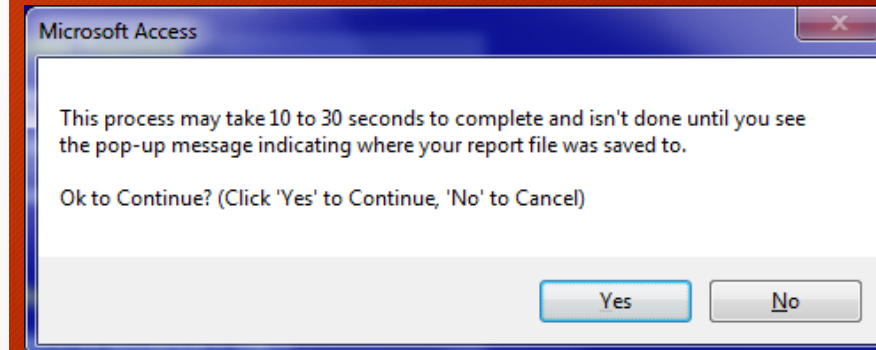
Admin Features

- Admin features allow limited customization of the text displayed by the UI and presents reporting more useful to Admins than general Users
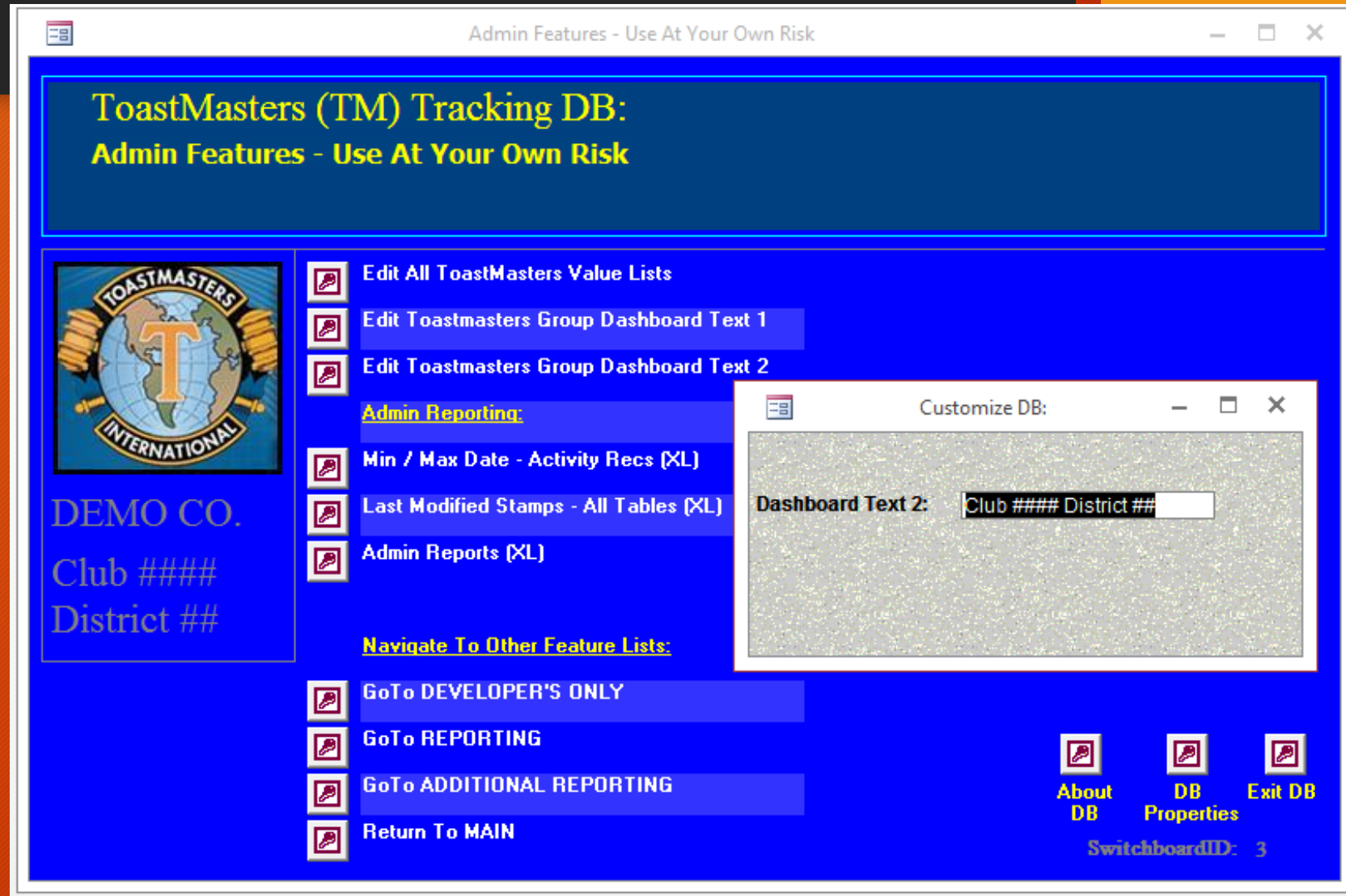
This Includes Editing Lists Used in Drop Downs

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 3

Exit

Category Name TM Roles

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.

Resort Items

Sys_CategoryItems subform

ItemValue	ItemValue2	Sort Orde
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

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)

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

Scrolling Further in All Access Objects Panel ...

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

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_TM_webIDs-recCompare
- zzDataCheck-TMDataAndNamesTempT...
- Count_WhatMemberDid_All_UQ
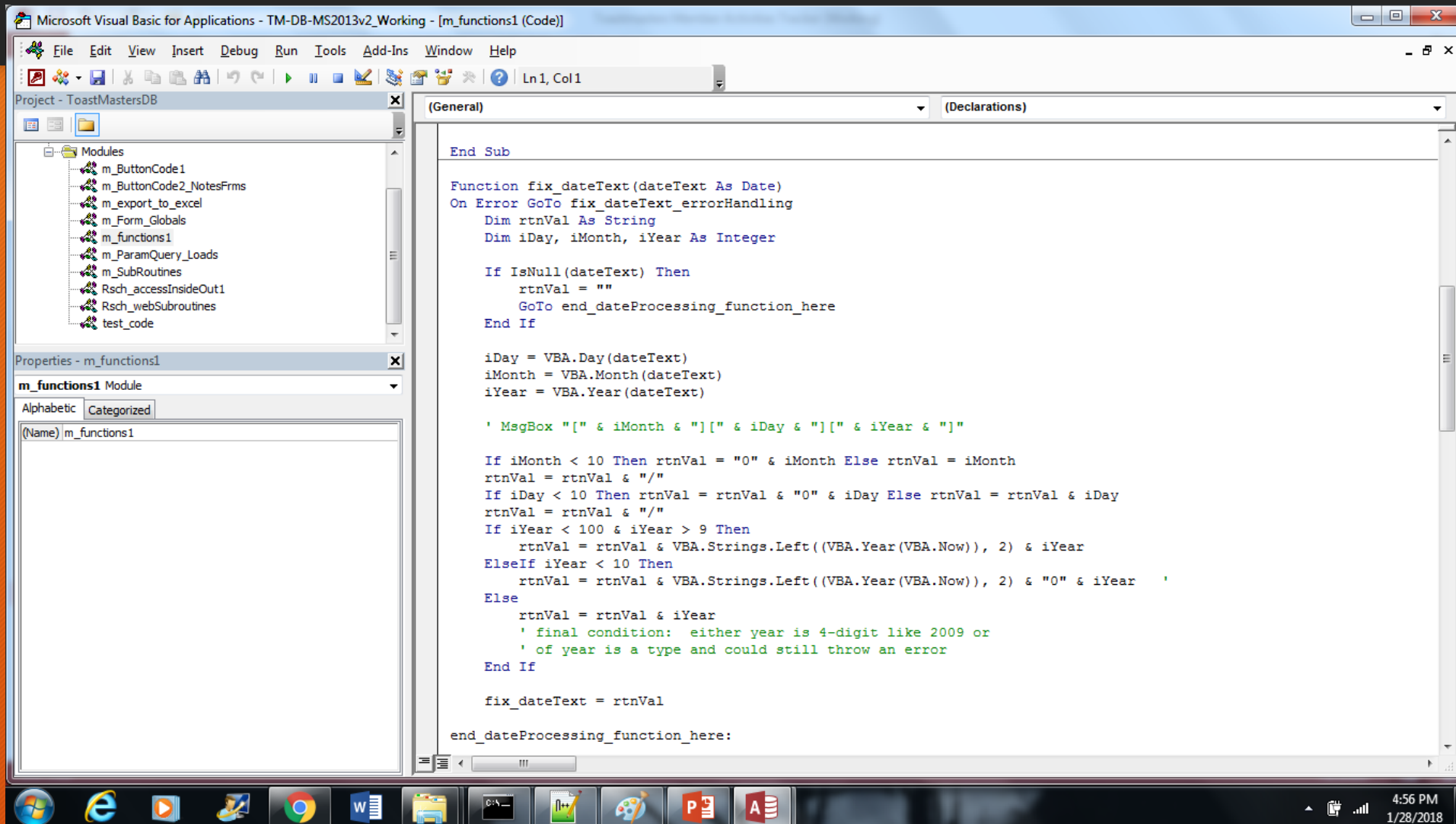- CountInput_ManualSpeechCount_Ent...

All Access Objects

- zzDataCheck-TMDataAndNamesTempI...
- 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
- Rsch_accessInsideOut1
- Rsch_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

Microsoft Visual Basic for Applications - TM-DB-MS2013v2_Working - [m_functions1 (Code)]

File   Edit   View   Insert   Debug   Run   Tools   Add-Ins   Window   Help

Ln 1, Col 1

Project - ToastMastersDB

(General)   (Declarations)

Modules
- m_ButtonCode1
- m_ButtonCode2_NotesFrms
- m_export_to_excel
- m_Form_Globals
- m_functions1
- m_ParamQuery_Loads
- m_SubRoutines
- Rsch_accessInsideOut1
- Rsch_webSubroutines
- test_code

Properties - m_functions1

m_functions1 Module

Alphabetic   Categorized

(Name) m_functions1

```vb
End Sub

Function fix_dateText(dateText As Date)
On Error GoTo fix_dateText_errorHandling
    Dim rtnVal As String
    Dim iDay, iMonth, iYear As Integer

    If IsNull(dateText) Then
        rtnVal = ""
        GoTo end_dateProcessing_function_here
    End If

    iDay = VBA.Day(dateText)
    iMonth = VBA.Month(dateText)
    iYear = VBA.Year(dateText)

    ' MsgBox "[" & iMonth & "][" & iDay & "][" & iYear & "]"

    If iMonth < 10 Then rtnVal = "0" & iMonth Else rtnVal = iMonth
    rtnVal = rtnVal & "/"
    If iDay < 10 Then rtnVal = rtnVal & "0" & iDay Else rtnVal = rtnVal & iDay
    rtnVal = rtnVal & "/"
    If iYear < 100 & iYear > 9 Then
        rtnVal = rtnVal & VBA.Strings.Left((VBA.Year(VBA.Now)), 2) & iYear
    ElseIf iYear < 10 Then
        rtnVal = rtnVal & VBA.Strings.Left((VBA.Year(VBA.Now)), 2) & "0" & iYear   '
    Else
        rtnVal = rtnVal & iYear
        ' final condition:  either year is 4-digit like 2009 or
        ' of year is a type and could still throw an error
    End If

    fix_dateText = rtnVal

end_dateProcessing_function_here:
```

4:56 PM
1/28/2018

SQL in MS Access

Reporting In Excel

- Reporting start the process from MS Access
- Then it Hands The reqults 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
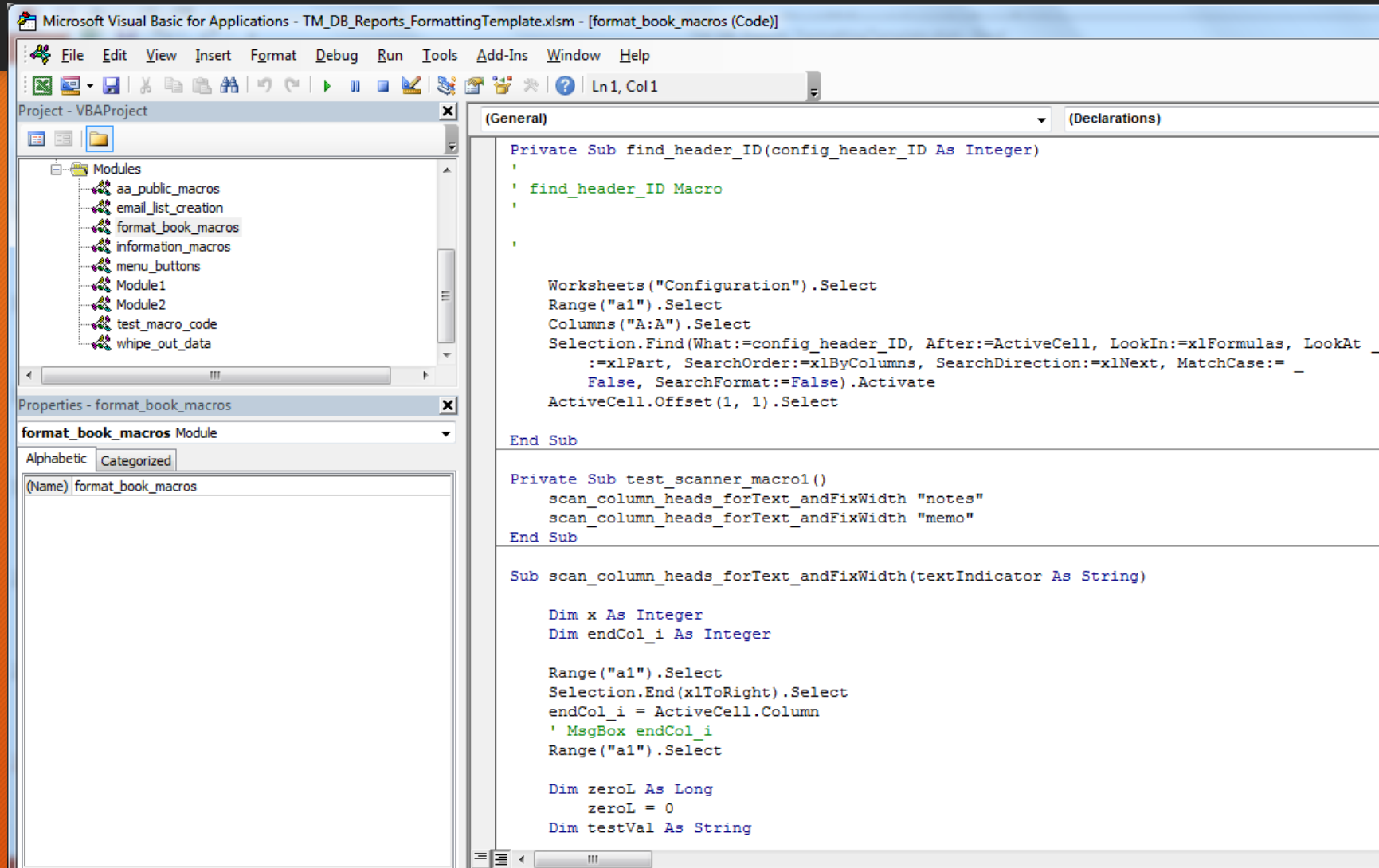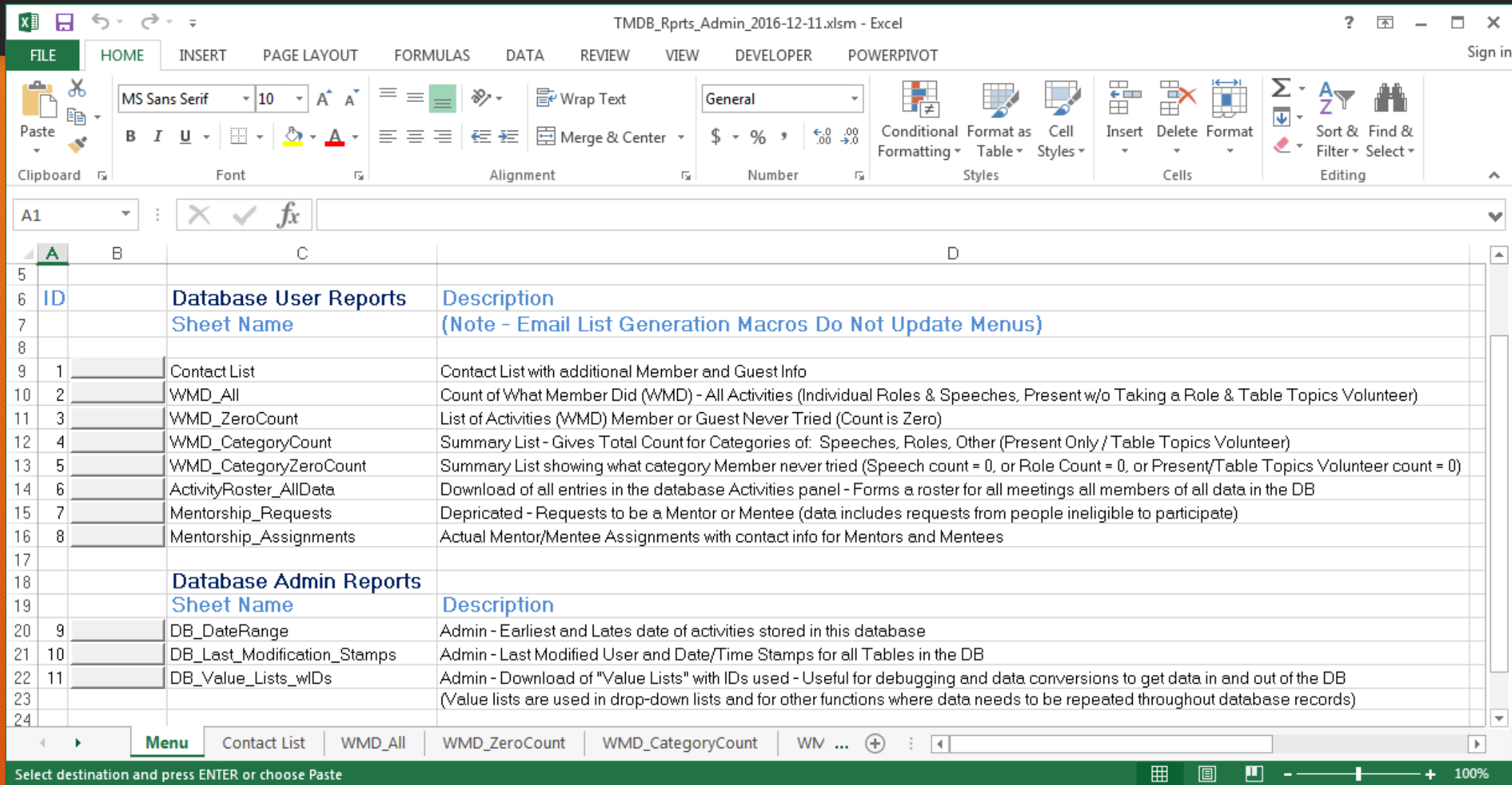
Excel File: Configuration Tabs

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

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