

Summary

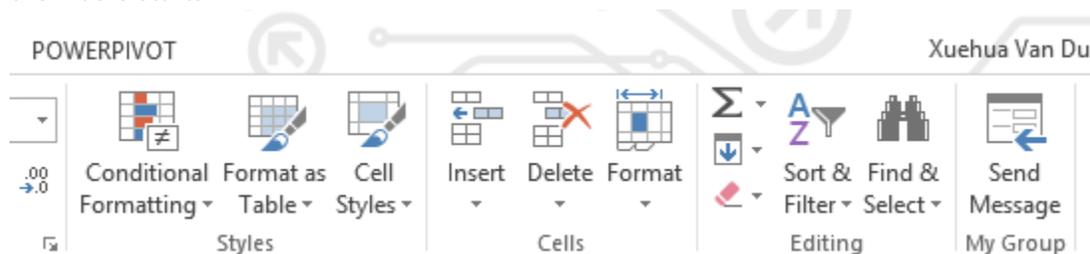
I usually like to send emails or texts to my family and close friends on their birthday instead of sending the messages on Facebook. However, as I grow older, there are more people entering into my life, so it is getting harder to remember and keep track of the birthdays. Also, due to school and work, sometimes I don't check the calendar, so I have missed some of the birthdays. It frustrated me, because it is something I really value. So I created a database to keep track of family and friend's birthdays. The information can be added, deleted, or edited when needed. I also designed a Macro to scan the database and find if it is someone's birthday. If it is someone's birthday, I can choose to send either a text or an email to that person. During this process, I can modify the default message to a more personal message if it is needed. If it is no one's birthday, it would let me know.

Here is a sample look of the birthday data.

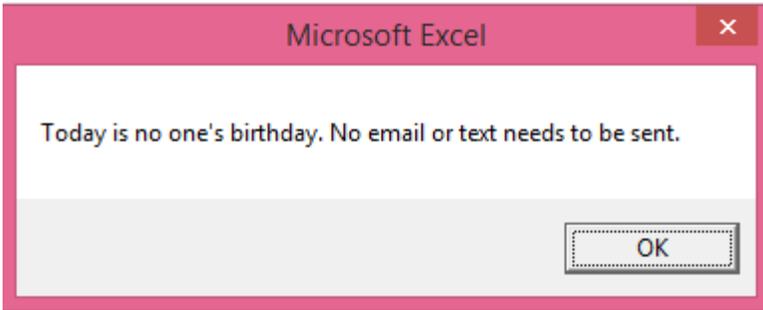
First Name	Last Name	Birthday	Email	Phone
Lorraine	Van Duker	9-Sep	lvanduker@hotmail.com	2533708470
Brad	Van Duker	3-Feb	bvanduker@gmail.com	2533548470
Scott	Van Duker	11-Dec	svanduker@gmail.com	2533456565
Liza	Van Duker	21-Dec	lizavanduker@gmail.com	2531247605
Mark	Van Duker	5-Aug	mvanduker@gmail.com	2537761234
Laura	Van Duker	26-Apr	lvanduker@gmail.com	2535409876
Anne	Lv	11-Mar	alv@gmail.com	
Evelyn	Van Duker	10-Dec	evanduker@gmail.com	2531234567
Stella	Jin	20-Dec	sjin@gmail.com	

Implementation

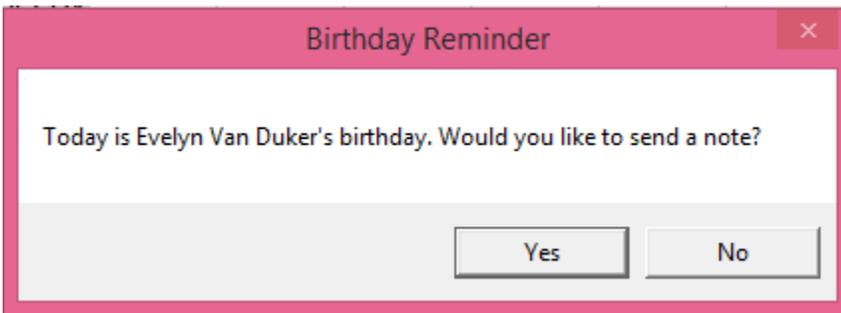
1. Start – I add a customized icon named “Send Message” to the ribbon. When clicking the button, the macro starts.



2. Scan – I use a For Loop within a Sub to scan the whole database to see if it is someone's birthday. If it is not anyone's birthday, a Message Box would pop up and let me know it is no one's birthday.



If it is someone's birthday, a Message Box would pop up and remind me that it is that person's birthday and ask me if I would like to send a birthday message.

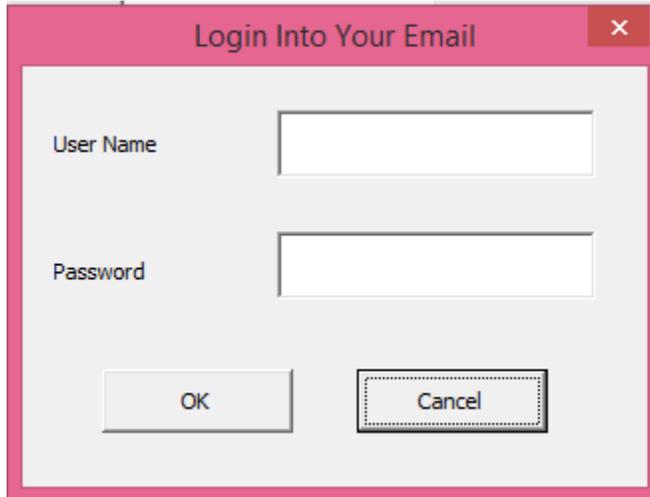


3. Email/Text – I use a UserForm to let the user edit the birthday message, update information and choose if the user wants to send the message through email or text. When the user chooses to send a birthday message, the UserForm pops up and shows the default email address, phone number, and birthday message.

A screenshot of a "Birthday Message" UserForm. The title bar is pink and contains the text "Birthday Message" and a close button (X). The main area is light grey and contains several input fields: "Name" with the value "Evelyn Van Duker", "Email" with the value "evanduker@gmail.com", "Phone Number" with the value "2531234567", and "Message" with the value "Happy Birthday, Evelyn! Hope you have a wonderful day". At the bottom are three buttons: "Email", "Text", and "OK".

The user can edit these default information if needed. Then the user can choose to either click on the email button to send an email to the birthday person, or click on the text button to send a text to the birthday person.

4. Login – I use another UserForm to let the user login into the email account that they want to send the message from. The default is a gmail account since it is what I am using. Email address and password is required to enter.



The image shows a dialog box titled "Login Into Your Email" with a close button (X) in the top right corner. The dialog contains two text input fields: "User Name" and "Password". Below the fields are two buttons: "OK" and "Cancel".

5. Send the message – I created a Function named sendGMail to send an email or text to the birthday person.
6. Quit – After the message is sent, the spreadsheet is closed automatically

Learning Outcomes and Difficulty

I always want to learn how to use macros to send emails and create Userforms. Userforms are not necessarily easier than working directly on the worksheets, but it is more convenient and friendly for users because you know exactly what to input or change. I really like this project because it really let me learn and get more familiar with the things that we have learned throughout the semester.

Assistance

I mostly used Google whenever I encountered some questions or problems. I also used the files from class throughout the semester.