Deployment Simplified

Problem/pain: scrolling through many many emails to find the right email with the related attachment (data) for a Power Bi report. The file is sent over to us as a zipped file. The manual act of locating the email, downloading it, and extracting the excel file out of the zipped folder is not difficult or too timely. However, these small steps do rack up time. If this manual process takes let's say ~10 minutes a day then it sucks up one hour of business time weekly.

Solution:

- create a special folder in your inbox
- write a rule to automatically isolate the emails that send over the Deployment data to the special folder
- write a python script that can open the email message from the special folder + download the attachment + unzips the file + save the file in the destination path

Benefit:

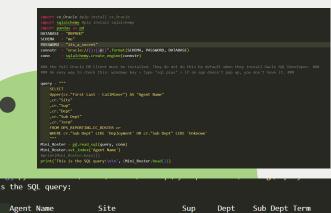
- streamlined
- systematic
- accurate
- saves business time

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This is the phase two of a new ETL process for the Deployment Report. Currently the report is inefficient. It is slow as the data fed into the report is heavy. Also the cleaning process is done in the Power Query of the Power Bi. To speed up the reporting, we need to automate the data wrangling process.

Step 1

Query a mini roster that will later drive the merge with another table. The report is only concerned with a sub group of the whole contact center.



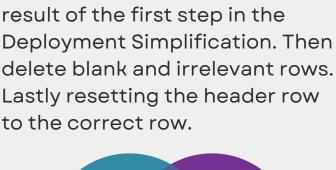
Agent Name Site Sup Dept Sub Dept Term DENN1 ial America Brit rd Inbound Unknown Yes LINDA Chattanooga Keo: er Repair Deployment No MIKI Chattanooga Keo: er Repair Deployment No CIE Unknown /A Unknown Unknown Yes ANGE Chattanooga Keo: er Repair Deployment No

Step 2

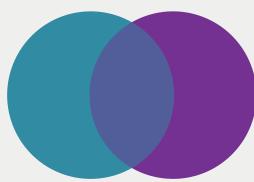
This is the sneak peak to the new header:

2 Service Job Number Service Job Date ... Promotional Opt In Service Type
0 SHMQ8301DCD5-1 2022-08-03 00:00:00 ... NaN POLICY
1 SHMQ8303BAB0-2 2022-08-09 00:00:00 ... NaN POLICY
[2 rows x 55 columns]





Import the unzipped file as a



Pre-merging

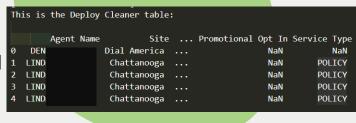
Prior to merging I need to identify a relationship between the roster and the unzipped file which is the *agents' names*. In order for a successful join I'll need to standardize the names by using the .upper() for both tables.

Merging choice

Left join on the mini roster.
Again the report only cares about the Deployment agents. Unknown agents are kept as well as an error check mechanism. It's an indicator to the leadership whether a unknown agent's profile ought to be updated in the roster.

Step 3

Merge mini roster with the unzipped file. This new table will be significantly cleaner and smaller than the original table that fed the Deployment report.



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Step 4

Once cleaned and merged. The output is saved as a csv called "Deploy_Cleaned". The PowerBi just needs to be repointed to the Deploy_Cleaned file and refreshed.

2,216 KB

22,066 KB