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DEVELOPERS'
CONFERENCE

blackbaud

June 15-17, 2021

Creating Optimized and Seamless Matching Gift Workflows in Blackbaud CRM™

BLACKBAUD CRM™ TRACK

TEAM FROM UNIVERSITY OF SOUTH CAROLINA

Session Host: Scott Parrish



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South Carolina



Derek Clark **AVP of Advancement Services**



Rob Gibbons Senior Director of Data Analytics



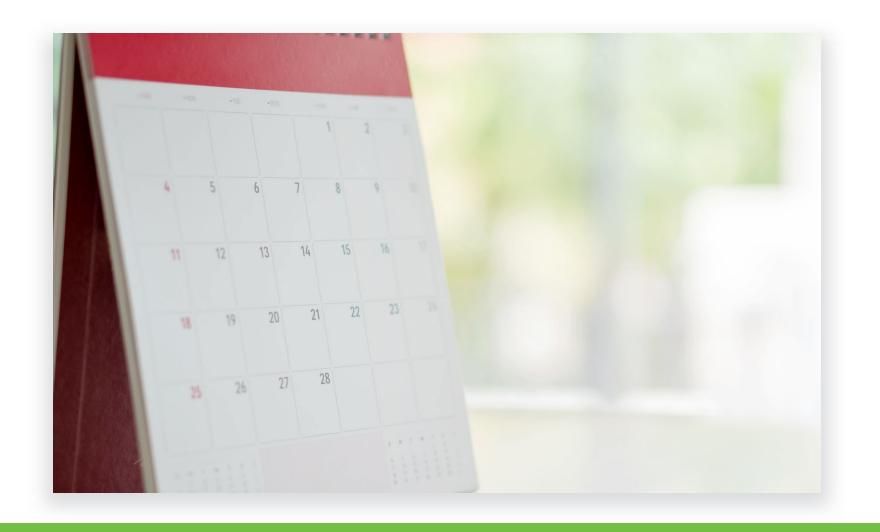
Jay Trussell **Director of Information Systems**



Steven Finnell Developer II

Agenda

- Issue
- Clean-up
- Solution
- Results
- **Next Steps**



University of South Carolina

- 750,000 Constituents
- 9 in IT/Data Analytics
- Blackbaud Hosted in MS Azure
- 15 Months on CRM



Issue – Matching Gift Process

- \$25M Annual Cash Receipts
 - Individuals
 - Direct Donations
- \$183K in Matching Gifts
- Nonprofit Benchmark 5-10% Eligible
 - ~\$2M Possible
 - 9% Current Baseline (183K/2M)
- Goal 25% of Possible
 - \$500K \$183K = \$317K annual increase



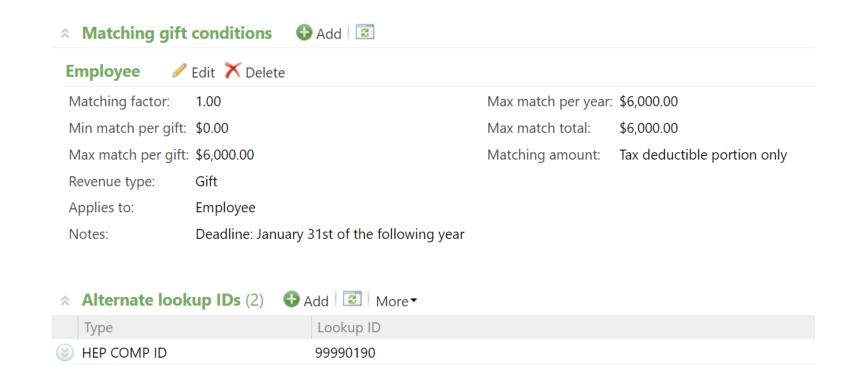
Clean-up

- Convert to Blackbaud CRM (4/6/2020)
 - Non-Constituent notes for employment
- Organization Tree
 - Identify Primary Organization
 - HEP Company ID
 - Add Matching Gift Information
 - Parent and Subsidiary Tree
- Employee Append



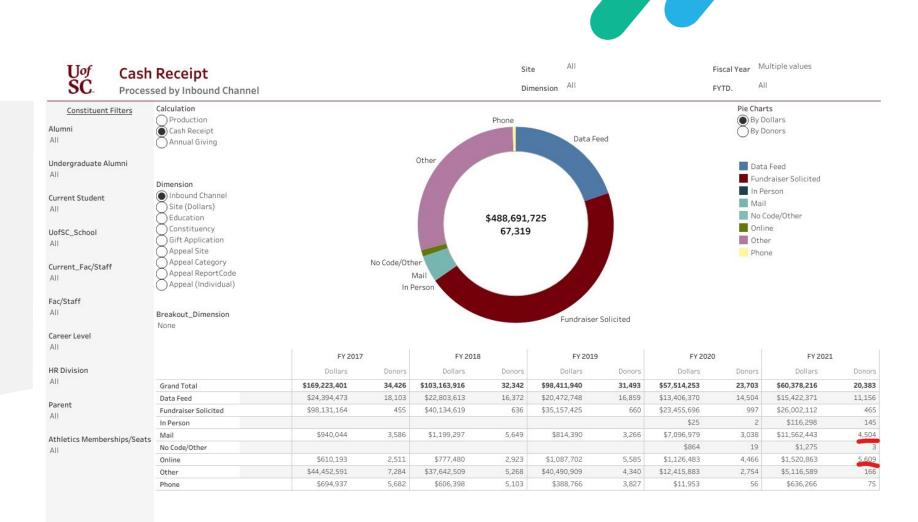


Matching gift company information loaded into CRM



Mailed Gifts

22% of our gifts are received via mail





Company Search

Powered by two ad-hoc queries and the BBIS query API

Results (722 records found. Only the first 500 rows are shown.)

	H				
Name	Alternate Lookup IDs\Lookup ID	Address (Primary)\Address	Address (Primary)\City	Address (Primary)\State	
3M Corporation	97910000	3m Center. St.	Saint Paul	Minnesota	55144-1001
A. O. Smith Corporation	93240000	Water Products Division Post Offic	Mc Bee	South Carolina	29101-0600
AAA Carolinas	15000010	AAA Travel Agency 6600 AAA Drive	Charlotte	North Carolina	28212-8259
AAI Corporation	9430000	124 Industry Lane	Cockeysville	Maryland	21030-3342
AARP	15000013	Attn: Ms. Carrie Sinkler-Parker 120	Columbia	South Carolina	29201-3227
Abbott Laboratories	130000	100 Abbott Park Rd	North Chicago	Illinois	60064-3502
AbbVie Foundation	99990552	6111 West Plano Parkway, Suite 1	Plano	Texas	75093-0014
Abf Freight System Inc	13590000	Post Office Box 697	Cherryville	North Carolina	28021-0697
Academy of American Poets	15000147	584 Broadway, Suite 1208	New York	New York	10012-3227
Adidas America Incorporated	99990138	5055 N Greeley Ave	Portland	Oregon	97217-3524
Administaff, Inc.	98620000	19001 Crescent Springs Drive	Humble	Texas	77339-3802
Adobe Systems Incorporated	92270000	345 Park Avenue	San Jose	California	95110-2704
ADP	920000	1 Adp Blvd	Roseland	New Jersey	07068-1728
Advent Software	15000659	301 Brannon Street	San Francisco	California	94107-3815
Aegis Sciences Corporation	15000829	515 Great Circle Road	Nashville	Tennessee	37228-1310

Query API

Two ad-hoc queries. One for parent corporation and one for subsidiaries

```
query.getResults(ADF.Defaults.hepParentQuery, function (data) {
                // clean results
                results = [];
                var fields = data.Fields,
                    rows = data.Rows,
                    fieldArray = [];
                $.each(fields, function (key, value) {
                    fieldArray[value.Name] = key;
                });
                $.each(rows, function () {
                    //console.log(this.Values);
                    var values = this.Values;
                    var pushResults = false;
                    results.push({
                        name: values[0],
                        id: values[1],
                        address: $.trim(values[2]) + "<br>" + $.trim(values[3]) + ", " +
                                               $.trim(values[4]) + " " + $.trim(values[5])
                    });
                });
                query.getResults(ADF.Defaults.hepSubsQuery, function (data) { ... });
});
```



On-Line Gifts

Search for Matching Gift Companies

Bloodhound Type-Ahead Library

Check to see if your employer will match your gift!

Micr

LinkedIn Matching Gifts Program One **Micr**osoft Way Redmond, Washington 98052-8300

Microsoft One Microsoft Way Redmond, Washington 98052-8300

Microsoft Corporation One Microsoft Way Redmond, Washington 98052-8300



On-line Gifts

Capture
Information in a
Revenue Attribute

BIS Matching Gift Company HEP ID	BBIS Matching Gift Company Name
	Russell Investments
	UofSC
80000	McKesson Corporation

Creating a Record on the e-Match Portal

Scheduled Processes

- Two Processes
 - Python script that runs every 5 minutes
 - Connects to read-only access and looks for new transactions with a revenue attribute
 - Split gifts based on which foundation they are giving to
 - For each record, call HEP API to create record
 - If HEP ID is populated from search, use it. If not perform a search on HEP to see if they have a record
 - Python script that runs nightly
 - Same process as above, but for non-BBIS gifts

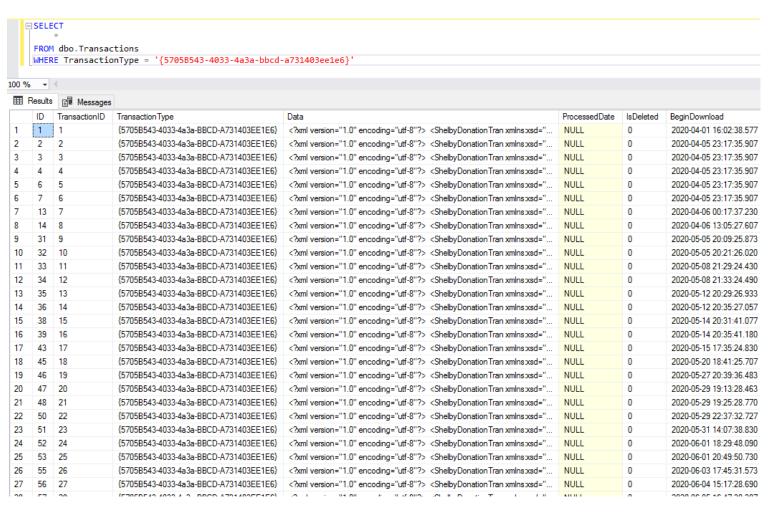


Posting Online Transactions HEP

Transactions.Data

Stored in XML

Attribute IDs 506 and 609



BBIS Process

```
for account in details:
           data = {
             'grant type': 'password',
             'username': conn_data['Accounts'][account]['Username'],
             'password': conn data['Accounts'][account]['Password']
           response = requests.post(
               'https://gpc.matchinggifts.com/o/token/',
               data=data, auth=(conn_data['Accounts'][account]['Client ID'],
               conn data['Accounts'][account]['Secret']))
           access token = response.json()["access token"]
           #input()
           header = {"Authorization": "Bearer " + access_token}
           license key = conn data['Accounts'][account]['License Key']
           output format = 'json'
           conn = pyodbc.connect(conn_data['SQL Connection'])
           cursor = conn.cursor()
```

BBIS Process (continued)

```
sql comm =
            SELECT LOOKUPID FROM CONSTITUENT
            WHERE ID = '"""+data_dict['ShelbyDonationTran']['Donor']['RegistrantId']+"""'
cursor.execute(sql_comm)
lookupid rows = cursor.fetchall()
conn.close()
name = data dict['ShelbyDonationTran']['Donor']['FirstName']+ \
      ' '+data_dict['ShelbyDonationTran']['Donor']['LastName']
email = data dict['ShelbyDonationTran']['Donor']['EmailAddress']
amount = details[account]
phone = data dict['ShelbyDonationTran']['Donor']['Phone']
source = data dict['ShelbyDonationTran']['TransactionSource']
try:
    donor_id = lookupid_rows[0][0]
except IndexError:
    donor_id = ''
```

BBIS Process (continued)

```
aux1 = donor id
aux2 = data_dict['ShelbyDonationTran']['PKID']
aux3 = str(row[2])
aux4 = str(data dict['ShelbyDonationTran']['Gift']['GiftDate'])[:10]
if(re.search("[.][0-9][0-9]",str(details[account])) == None):
    aux5 = "$"+str(details[account])+"0"
elif(re.search("[.][0-9][0-9]",str(details[account])) != None):
    aux5 = "$"+str(details[account])
aux9 = ''
```



BBIS Process Aux Mapping

- Constituent Lookup ID → Aux1
- Donation Transaction PKID → Aux2
- Current DateTime → Aux3
- Donation Transaction Gift Date → Aux4
- Donation Transaction Amount → Aux5
- Empty string → Aux9
 - This is empty because this is where we will enter in the Revenue Lookup ID that matches that given transaction.

^{*}The bolded Aux fields are those that are used as a composite key by HEP*



BBCRM Process

- Works the same way, outside of a few differences
- We can pull all the details we need using a SQL query and do minimal lifting via Python
- Still have a company check to attempt to get match in HEP
- The Aux2 and source values are different.



BBCRM Process - SQL

```
COMPANY_HIERARCHY
AS
    SELECT
        RS.ID AS FIID
       ,ORGANIZATIONDATA.ID
       , PARENTCORPID
       , RS.LOOKUPID
       , RS. CONSTITUENTID
    FROM ORGANIZATIONDATA
    INNER JOIN REVENUE_SET RS ON RS.COMPANYID = ORGANIZATIONDATA.ID
    WHERE ORGANIZATIONDATA.ID = RS.COMPANYID
    UNION ALL
```



BBCRM Process – SQL (continued)

```
SELECT

COMPANY_HIERARCHY.ID AS FIID

ORGANIZATIONDATA.ID

ORGANIZATIONDATA.PARENTCORPID

COMPANY_HIERARCHY.LOOKUPID

COMPANY_HIERARCHY.CONSTITUENTID

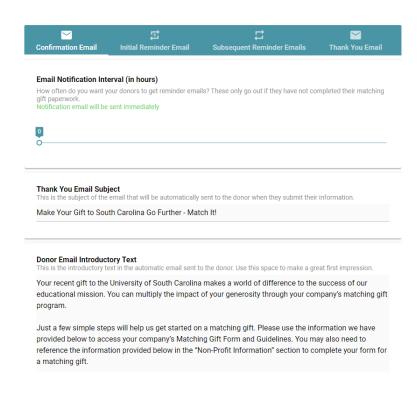
FROM ORGANIZATIONDATA

JOIN COMPANY_HIERARCHY

ON ORGANIZATIONDATA.ID = COMPANY_HIERARCHY.PARENTCORPID
```

Donor Notification

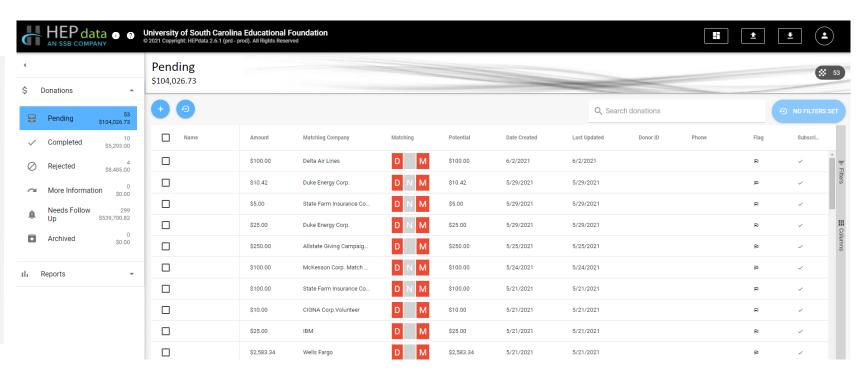
Donors receive initial email with directions and follow-up emails on a scheduled basis



- Confirmation within 5 minutes
- Initial Reminder 5 days
- Two subsequent reminders – every 7 days

Follow-up

Gifts flow into outside vendor for follow-up



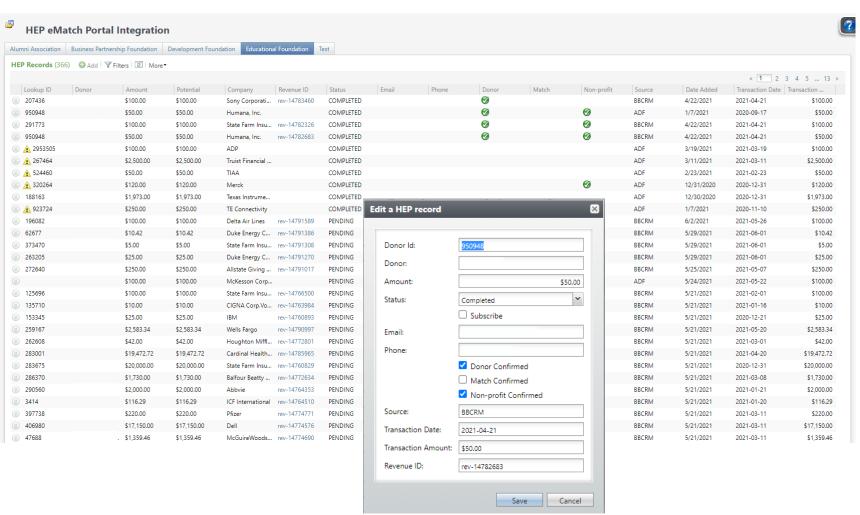


As donors complete steps, progress is updated.

TIAA	D M	\$50.00	2/23/2021
Truist Financial Corporat	D M	\$2,500.00	3/11/2021
ADP	D N M	\$100.00	3/19/2021
Sony Corporation of Am	D M	\$100.00	4/22/2021
State Farm Insurance Co	D N M	\$100.00	4/22/2021
Humana, Inc.	D N M	\$50.00	4/22/2021

CRM Integration

API Link





- No Improvement Yet
 - Measured by Matching Gift Claims
- Reasons
 - Process Started December 2020
 - Tracking via Vendor
 - Increase Employee Relationships
 - Improve Employee Online Search Option





- Monitor and Measure
 - Increase to Matching Gift Revenue
- Employee Information
 - Encourage Units to Enter Employee Relationships
 - Bulk Imports for Employment
 - Maintain Corporation Tree





Thank you!