

# Screenshots of sample projects that I designed and developed

A RTLS DrillDown report to show the count of RTLS tags per category.

Table

Count

Asset

Serial\_Number

Manufacturer

Business Statu

Primary Categ

Category 3

Department 1

Department 2

Department 3

Department 4

Department 5

Group 1

Model

Rating

Category 1

Category 2

Manufacturer (120)

Filter values

Select AllSelect None

☒ (1182)

☒ 2141 (8)

☒ Stryker (1)

☒ 3M (5)

☒ ALCO (236)

☒ ASC - SmartNav (1)

☒ Actuated Medical (1)

☒ Alco (10)

☒ Ambu (1)

☒ Anacom-MedTek (8)

ApplyCancel

Category 2	Totals
	3,496
Equipment	37
Feeding Pumps	169
Heat Therapy Pumps	5
Infusion Pump	5,140
Kangaroo ePump	1
Large Volume Pump	4
Medical Devices	1,142
PC Unit	1
Pacemakers	1
Patient Warmers	3
Phototherapy Lights	35
Surgical Traction Device	5
Video Laryngoscope (Main OR)	1
null	10,041
Totals	20,081

Actual numbers have been modified for demo purpose

Voalte report to calculate monthly average Time\_To\_Read messages then use UNION to combine with other months

```
SELECT
  "04-24" AS [ "MM-YY" ],
  int( Max(
    24 * 60 * 60 * ( IowaText_Apr2024.Read - IowaText_Apr2024.Delivered )
    ) / 3600 / 24 ) AS Max_TTR_days
FROM
  IowaText_Apr2024
WHERE
  IowaText_Apr2024.Delivered > 0 AND IowaText_Apr2024.Read > 0 AND IowaText_Apr2024.[Distribution Type] = "One-to-One"
```

SELECT \* from Avg\_TTR\_Jan\_2024 Union SELECT \* from Avg\_TTR\_Feb\_2024 Union SELECT \* from Avg\_TTR\_Mar\_2024 UNION SELECT \* from Avg\_TTR\_Apr\_2024

A DrillDown RTLS report using the LastSeen field to analyze who has not been using their RTLS tag per Dept. / Building

```
28 def DateRange12Month(X):
29     if X > 180 and X < 365 :
30         return "X"
31     else:
32         return ""
33 def DateRangeInYear(X):
34     if X > 365 :
35         return "X"
36     else:
37         return ""
38
39 GRP=dataset.groupby(['Department']).agg(Cnt=('TagID', len), Last=('LastDate', np.max))
40 GRP["LastSeen"] = ( dt.datetime.now() - GRP['Last'] ).dt.days
41 GRP["Within_1_month"] = GRP['LastSeen'].apply(DateRange1Month)
42 GRP["Within_3_months"] = GRP['LastSeen'].apply(DateRange3Month)
43 GRP["Within_year"] = GRP['LastSeen'].apply(DateRange12Month)
44 GRP["more_than_year"] = GRP['LastSeen'].apply(DateRangeInYear)
45 GRP = GRP.drop( ['Last'] , axis=1)
```

Python Pandas  
code used to  
generate the  
PIVOT below

Table	Count	↕ ↔	Last_seen_within_1_month	Last_seen_within_3_
StaffName	Department			
TagID				
Location				
LastDate				
LastSeen				

	Last_seen_within_1_month		X	
	Last_seen_within_3_months		X	
	Last_seen_within_year		X	Totals
Department	Last_seen_more_than_year	X		
		87	14	14
1JPW			1	1
2JCP				1
2JPE				3
2JPW		1	2	10
2RCP				1

Count numbers  
are clickable to  
drill into TagIDs

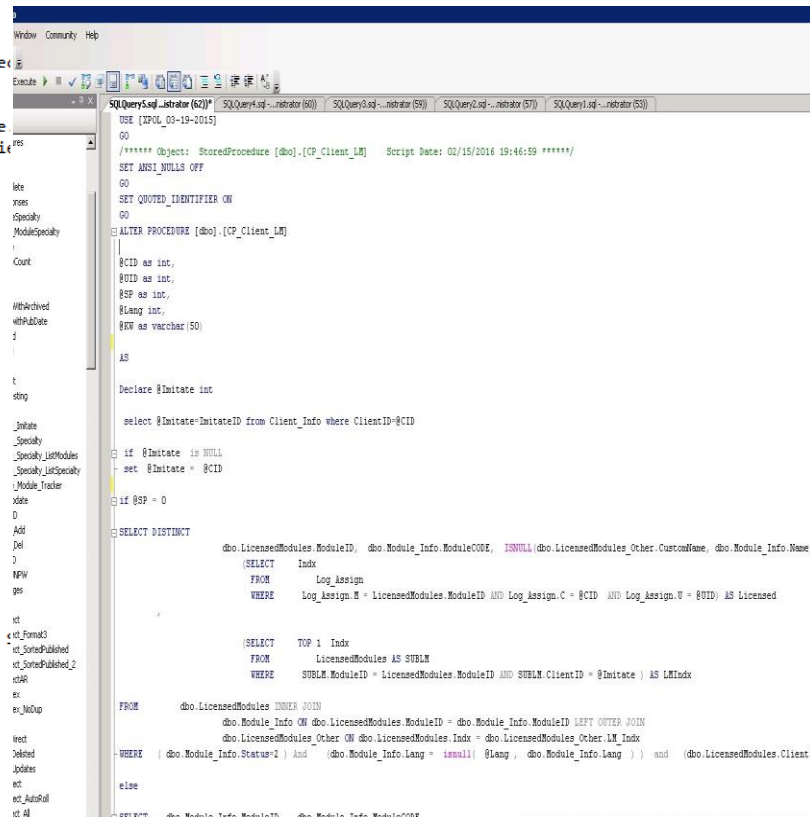
Table	Name	Unit
Count	AT	
Building	AT	
	--D	--M
	--MD	1-D
	1MD	null
		Totals
Ambulatory Clinics	57	68
Anesthesia	1	38
Capital Management		3
Cardiothoracic Surgery		2
Care Coordination Division		2
Carver College of Medicine (CCOM)		6
Center for Disabilities and Development	4	14
Central Sterilizing Services		6
Clinical Quality, Safety & Performance Improvement		8
Compassus		2
Compliance		
Dermatology	2	5
Emergency Medicine	9	8
Engineering Services		40
Environmental Services	1	6
Family Medicine	1	39
Food & Nutrition Services	3	45
Guest Services	7	54
HCIS	21	96
Heart and Vascular Center (HVC)	6	31
Holden Comprehensive Cancer Center (HCCC)	21	61
Hospital Administration	3	18
Hospital Dentistry		
Housewide Services	5	405
Inpatient Units	1	277
Institute for Clinical and Translational Science	1	3
Integrated Call Center (ICC)	18	3
Internal Medicine	7	129
Iowa River Landing	5	12
Joint Office of Patient Financial Services	65	4
Marketing and Communication		6

Voalte PIVOT  
report for who  
is using which  
format:  
1: VoalteOne  
M: Mobile  
D: Desktop

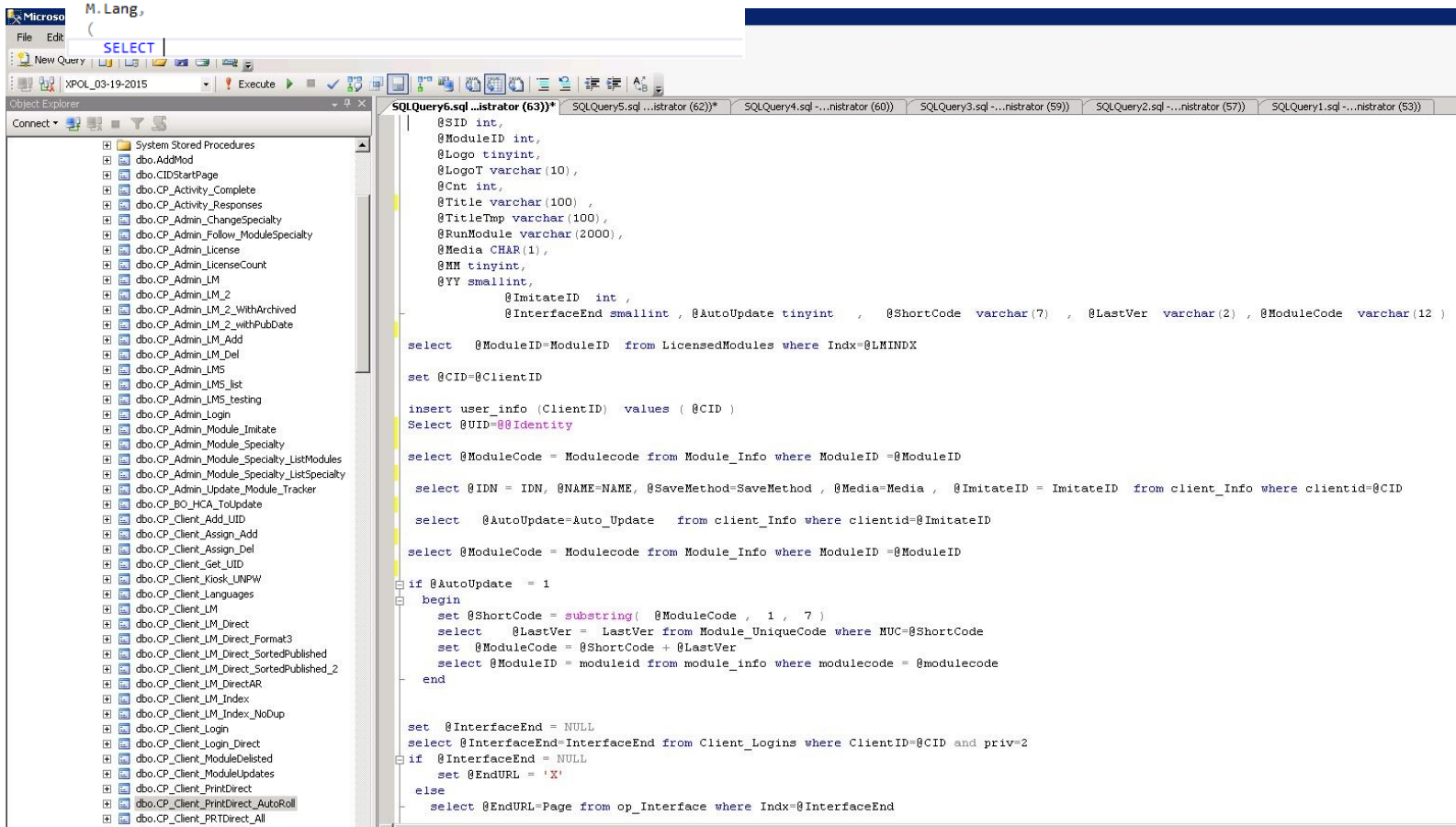
Actual numbers have been modified for demo purpose

## MS-SQL stored procedures that I developed for an online training system documenting completion

```
module_info.Name as Title,
module_info.Type as Type,
@CID as ClientID,
dbo.Specialties.SPname as DespSpecialty
FROM
dbo.Module_Info
INNER JOIN dbo.Module_Specialty ON dbo.Module_Info.ModuleID = dbo.Module_Specialty.ModuleID
INNER JOIN dbo.Module_Type ON dbo.Module_Info.Type = Module_Type.Indx
INNER JOIN dbo.Specialties Spe ON dbo.Module_Info.Specialty = Spe.SP
INNER JOIN dbo.Module_Language ON dbo.Module_Info.Lang = dbo.Module_Language.Lang
INNER JOIN dbo.Specialties ON dbo.Module_Specialty.Specialty = dbo.Specialties.Specialty
WHERE
(
    dbo.Module_Info.ModuleCODE = @FiltK
)
and (dbo.Module_Info.Status <> 3) else if @SpDest = -2
SELECT
    TOP 100 PERCENT M.ModuleID AS ModuleID,
    M.ModuleCODE,
    M.Lang,
    1 AS Licensed,
    Specialties_1.SPName AS Specialty,
    dbo.Module_Language.[Language],
    M.Name AS Module_Title,
    MT.M_Type AS asType,
    dbo.LicensedModules.ClientID,
    Specialties_1.SP AS DestSpecialty
FROM
    dbo.Module_Info M
    INNER JOIN dbo.Module_Language ON M.Lang = dbo.Module_Language.Indx
    INNER JOIN dbo.Module_Type MT ON M.Type = MT.Indx
    INNER JOIN dbo.Specialties Spe ON M.Specialty = Spe.SP
    INNER JOIN dbo.LicensedModules ON M.ModuleID = dbo.LicensedModules.ModuleID
    INNER JOIN dbo.Specialties Specialties_1 ON dbo.LicensedModules.Specialty = Specialties_1.Specialty
WHERE
(
    M.Type = ISNULL(@Type, M.Type)
)
AND M.Status <> 3
AND dbo.LicensedModules.ClientID = @CID
and M.Specialty = isnull(@FiltS, M.Specialty)
and M.[Lang] = isnull(@FiltL, M.[Lang])
and M.ModuleCode + M.Name + M.keywords like '%' + isnull(@FiltK, '') + '%'
ORDER BY
    M.Sorting,
    M.Name else
SELECT
    TOP 100 PERCENT M.ModuleID AS ModuleID,
    M.ModuleCODE,
    M.Lang,
```



```
USE [XPOL_03-10-2015]
GO
/***** Object: StoredProcedure [dbo].[CP_Client_LM] Script Date: 02/15/2016 19:46:59 *****/
SET ANSI_NULLS OFF
GO
SET QUOTED_IDENTIFIER ON
GO
ALTER PROCEDURE [dbo].[CP_Client_LM]
    @CID as int,
    @UID as int,
    @SP as int,
    @Lang as int,
    @BW as varchar(50)
AS
    Declare @Imitate int
    select @Imitate=ImitateID from Client_Info where ClientID=@CID
    if @Imitate is NULL
        set @Imitate = @CID
    if @SP = 0
    SELECT DISTINCT
        dbo.LicensedModules.ModuleID, dbo.Module_Info.ModuleCODE, ISNULL(dbo.LicensedModules_Other.CustomName, dbo.Module_Info.Name) AS Title,
        (SELECT Indx FROM Log_Assign WHERE Log_Assign.M = LicensedModules.ModuleID AND Log_Assign.C = @CID AND Log_Assign.U = @UID) AS Licensed,
        (SELECT TOP 1 Indx FROM LicensedModules AS SURLM WHERE SURLM.ModuleID = LicensedModules.ModuleID AND SURLM.ClientID = @Imitate) AS LMIndx
    FROM
        dbo.LicensedModules INNER JOIN
        dbo.Module_Info ON dbo.LicensedModules.ModuleID = dbo.Module_Info.ModuleID LEFT OUTER JOIN
        dbo.LicensedModules_Other ON dbo.LicensedModules.Indx = dbo.LicensedModules_Other.LM_Indx
    WHERE (dbo.Module_Info.Status=1) and (dbo.Module_Info.Lang = isnull(@Lang, dbo.Module_Info.Lang)) and (dbo.LicensedModules.ClientID = @CID)
    else
        SELECT
            dbo.Module_Info.ModuleID, dbo.Module_Info.ModuleCODE,
            dbo.Module_Info.Lang,
            1 AS Licensed,
            Specialties_1.SPName AS Specialty,
            dbo.Module_Language.[Language],
            M.Name AS Module_Title,
            MT.M_Type AS asType,
            dbo.LicensedModules.ClientID,
            Specialties_1.SP AS DestSpecialty
    FROM
        dbo.Module_Info M
        INNER JOIN dbo.Module_Language ON M.Lang = dbo.Module_Language.Indx
        INNER JOIN dbo.Module_Type MT ON M.Type = MT.Indx
        INNER JOIN dbo.Specialties Spe ON M.Specialty = Spe.SP
        INNER JOIN dbo.LicensedModules ON M.ModuleID = dbo.LicensedModules.ModuleID
        INNER JOIN dbo.Specialties Specialties_1 ON dbo.LicensedModules.Specialty = Specialties_1.Specialty
    WHERE
        M.Type = ISNULL(@Type, M.Type)
    AND M.Status <> 3
    AND dbo.LicensedModules.ClientID = @CID
    and M.Specialty = isnull(@FiltS, M.Specialty)
    and M.[Lang] = isnull(@FiltL, M.[Lang])
    and M.ModuleCode + M.Name + M.keywords like '%' + isnull(@FiltK, '') + '%'
```



```
SQLQuery6.sql ...istrator (63)*
--
@SID int,
@ModuleID int,
@Logo tinyint,
@LogoT varchar(10),
@Cnt int,
@Title varchar(100),
@TitleTmp varchar(100),
@RunModule varchar(2000),
@Media CHAR(1),
@MM tinyint,
@YY smallint,
@ImitateID int,
@InterfaceEnd smallint, @AutoUpdate tinyint, @ShortCode varchar(7), @LastVer varchar(2), @ModuleCode varchar(12)
--
select @ModuleID=ModuleID from LicensedModules where Indx=@LMINDX
--
set @CID=@ClientID
--
insert user_info (ClientID) values ( @CID )
--
Select @UID=@@Identity
--
select @ModuleCode = Modulecode from Module_Info where ModuleID =@ModuleID
--
select @IDN = IDN, @NAME=NAME, @SaveMethod=SaveMethod, @Media=Media, @ImitateID = ImitateID from client_Info where clientid=@CID
--
select @AutoUpdate=Auto_Update from client_Info where clientid=@ImitateID
--
select @ModuleCode = Modulecode from Module_Info where ModuleID =@ModuleID
--
if @AutoUpdate = 1
begin
    set @ShortCode = substring( @ModuleCode, 1, 7 )
    select @LastVer = LastVer from Module_UniqueCode where MUC=@ShortCode
    set @ModuleCode = @ShortCode + @LastVer
    select @ModuleID = moduleid from module_info where modulecode = @modulecode
end
--
set @InterfaceEnd = NULL
select @InterfaceEnd=InterfaceEnd from Client_Logins where ClientID=@CID and priv=2
if @InterfaceEnd = NULL
set @EndURL = 'X'
else
select @EndURL=Page from op_Interface where Indx=@InterfaceEnd
```

## mySql ( that does not support PIVOT function ) query for cross tabulation

```
2  SELECT
3      TOP 100 PERCENT Specialties.SPName AS Specialty,
4      SUM( CASE WHEN module_info.Lang = 1 THEN 1 ELSE 0 END ) AS English,
5      SUM( CASE WHEN module_info.Lang = 2 THEN 1 ELSE 0 END ) AS Spanish,
6      SUM( CASE WHEN module_info.Lang = 3 THEN 1 ELSE 0 END ) AS Arabic,
7      SUM( CASE WHEN module_info.Lang = 4 THEN 1 ELSE 0 END ) AS Vietnamese
8  FROM
9      LicensedModules
10     INNER JOIN Module_Info ON LicensedModules.ModuleID = Module_Info.ModuleID
11     INNER JOIN Specialties ON LicensedModules.Specialty = Specialties.SP
12     INNER JOIN Module_Language ON Module_Info.Lang = Module_Language.Indx
13 WHERE LicensedModules.ClientID = 91
14 GROUP BY
15     Specialties.SPName,
16     Specialties.Type,
17     Module_Info.Status
18 HAVING
19     Specialties.Type = 1 AND Module_Info.Status = 2
20 ORDER BY
21     Specialty
```

```
2  ALTER PROCEDURE [CP_Survey_Analysis]
3  @ClientID smallint,
4  @ModID varchar(10),
5  @d1 smalldatetime,
6  @d2 smalldatetime AS
7  SELECT
8      TOP 100 PERCENT Activity_Responses.QuestionNumber,
9      Activity_Responses.UserResponse,
10     COUNT(Activity_Responses.Indx) AS cnt,
11     Module_Questions.Text AS Question,
12     Module_Answers.Text AS Reply,
13     Log_Activity.ClientID
14 FROM
15     Activity_Responses
16     INNER JOIN Log_Activity ON Activity_Responses.ActivityIndex = Log_Activity.Indx
17     INNER JOIN Module_Info ON Log_Activity.ModuleID = Module_Info.ModuleID
18     INNER JOIN Module_Questions ON Activity_Responses.QuestionNumber = Module_Questions.Qcode
19     AND Module_Info.ModuleCODE = Module_Questions.ModuleCode
20     INNER JOIN Module_Answers ON Activity_Responses.QuestionNumber = Module_Answers.Qcode
21     AND Activity_Responses.UserResponse = Module_Answers.Answer
22     AND Module_Info.ModuleCODE = Module_Answers.ModuleCode
23 WHERE
24     Activity_Responses.DT BETWEEN @d1 AND @d2
25 GROUP BY
26     Activity_Responses.QuestionNumber,
27     Activity_Responses.UserResponse,
28     Module_Info.ModuleCODE,
29     Module_Questions.Text,
30     Module_Answers.Text,
31     Log_Activity.ClientID
32 HAVING
33     Log_Activity.ClientID = @ClientID
34     AND Module_Info.ModuleCODE = @ModID
35 ORDER BY
36     Activity_Responses.QuestionNumber,
37     Activity_Responses.UserResponse
```



# Database export to XML for a MedlinePlus static website project

MedlinePlus: Interactive Health Tutorials - Microsoft Internet Explorer

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Address http://www.nlm.nih.gov/medlineplus/tutorial.html Go Links

Site navigation

## MedlinePlus

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### Interactive Health Tutorials

The tutorials listed below are interactive health education resources from the [Patient Education Institute](#). Using animated graphics each tutorial explains a procedure or condition in easy-to-read language. You can also listen to the tutorial.

**NOTE:** These tutorials require a special Flash plug-in, version 4 or above. If you do not have Flash, you will be prompted to obtain a free download of the software before you start the tutorial.

- Diseases and Conditions**
  - [Abdominal Aortic Aneurysm](#)
  - [Acne](#)
  - [Allergies to House Dust Mites](#)
  - [Alopecia](#)
  - [Amyotrophic Lateral Sclerosis \(ALS\)](#)
  - [Angina](#)
  - [Anthrax](#)
  - [Asthma](#)
  - [Arrhythmias](#)
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  - [Colonoscopy](#)
  - [Coloscopy](#)
  - [Coronary Angiography and Angioplasty](#)
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  - [Echocardiography Stress Test](#)
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  - [Knee Arthroscopy](#)
  - [Mammogram](#)
  - [MRI](#)
  - [Myelogram](#)

Start Messenger Windows Explorer Internet Explorer

### X-Plain Online

Account	Edit	Specialty	Modules	Offline	Promotions	Views	Tools
Path: root			Addiction Medicine	Create Pin			
			Advance Directives	Select Favorites List			
			Alternative Medicine	Select Frequently Used			
			Anesthesia	Module Updates			
			Angiography	Account Modifications			
			Audiology	Manage Offline Files			
			Cardiac Rehabilitation	Email Reviewer			
			Cardiac Surgery	Generate Offline Files			

```
1 <lesson>
2 <info>
3 <Title>Diabetes &#45; Eye Complications</Title>
4 <Author>Diabetes &#45; Eye Complications</Author>
5 <Published>08/30/2004</Published>
6 <PassScore>60</PassScore>
7 <Language>English</Language>
8 <ModuleID>db019105</ModuleID>
9 <folder>diabetes/db010105</folder>
10 <AutoAdvance></AutoAdvance>
11 <RevDate>11/29/2012</RevDate>
12 </info>
13 <s f="1_0" p="s" t="6" s="Introduction" />
14 <s f="1_1" p="o" t="9" />
15 <s f="1_2" p="o" t="9" />
16 <s f="1_3" p="o" t="9" />
17 <s f="2_1" p="s" t="2" s="How the Eye Works" />
18 <s f="2_2" p="o" t="6" />
19 <s f="2_3" p="o" t="5" />
20 <s f="2_4" p="o" t="7" />
21 <s f="2_5" p="o" t="5" />
```

### Diabetes - Confeio de carbohidratos

Introducción

¿Cuáles de los siguientes grupos de el mayor impacto en el nivel de azúcar

1 Carbohidratos.

2 Grasas y aceites.

3 Proteínas.

Incorrecto. Los carbohidratos afectan más los niveles de azúcar en sangre en comparación con las grasas y los

Slide 9 of 120

Salir Créditos

Volumen Repetir

accionado por la X-Plain

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### Omusujja gw'ensiri

Omusujja gw'ensiri: kye ki?

Obubonero n'obuganga

Okuzibya

Mubufunze

Fuluma

English

Omukko 1 ogwa 28

EDOBOZI

TANDIKA

# MessageMedia OPT\_OUT report generator

## Instructions

Generate a Message Media csv export  
Drop the csv file in csv subfolder  
Run the Python script below  
The generated CSV file will be stored in 'Message Media/Reports' folder

**Subject : Messagemedia OPT\_OUT for 2025-01-12\_to\_2025-01-20**

Hello

Here is the messagemedia OPT\_OUT report.

```
In [1]: import pandas as pd
import os
import glob
import datetime as dt
import re

SRC_FILE = sorted( filter( os.path.isfile, glob.glob('csv/*.csv')))[0]
print(SRC_FILE)
rep = pd.read_csv( SRC_FILE , chunksize=10000,
                  low_memory=False ,
                  index_col=False ,
                  header=0 ,
                  usecols=[
                      'source_address',
                      'destination_address',
                      'action',
                      'timestamp_localtime',
                      'content',
                      'timestamp',
                      'account_name'
                  ] ,
                  dtype="string"
                )

df = pd.concat(
    (x.query("action in ['OPT_OUT','OPT_IN'] ") for x in rep),
    ignore_index=True
)
FN = df['timestamp'].str[0:10].str.strip().min() + '_'
FN += df['timestamp'].str[0:10].str.strip().max()

RepPath = "file:///  /Reports/"
RepPath += FN + ".csv"
print( RepPath )

df['source_address'] = df['source_address'].str[1:]
df = df.query(" `account_name` == '  ' ")

dfDupe = df[df.duplicated(subset=['source_address'], keep=False)]
dfDupe = dfDupe.sort_values(
    'timestamp',
```

```

        ascending=False).drop_duplicates(['source_address'] ,
        keep='first'
    )

dfDupe = dfDupe.reset_index(drop=True)
dfDupe = dfDupe.drop( dfDupe.query(" `action`=='OPT_OUT' ").index)

print('')
print('Duplicates')
print('OPT_IN -----')

if dfDupe.empty:
    print('No duplicates')
else:
    #print(dfDupe.to_markdown())
    dfDupe.to_csv( 'output/' + FN + ".csv" , mode='a')

df = df.sort_values(
    ['timestamp','source_address'],
    ascending=[False, True]
).drop_duplicates(['source_address'])

a_index = df.set_index('source_address').index
b_index = dfDupe.set_index('source_address').index

mask = ~a_index.isin(b_index)
df = df.loc[mask]
df = df.sort_values('timestamp', ascending=True )
df = df.reset_index(drop=True)
df = df.drop(['destination_address'], axis=1)
df = df.drop(['timestamp'], axis=1)

print('')
print('Result -----')
df.to_csv( 'output/' + FN + ".csv" , index=False )
df.to_csv(
    "{ }".format(FN) + ".csv" ,
    index=False
)
#print(df.to_markdown())

csv\2025-02-10_02-08-16_detail_all.csv
file:///S:{ }reports/2025-02-02_2025-02-08.csv

```

Duplicates

OPT\_IN -----

Result -----

In [ ]: