

# 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 All Select None

☒ (1182)

☒ 2141 (8)

☒ Stryker (1)

☒ 3M (5)

☒ ALCO (236)

☒ ASC - SmartNav (1)

☒ Actuated Medical (1)

☒ Alco (10)

☒ Ambu (1)

☒ Anacom-MedTek (8)

Apply Cancel

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

```

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

StaffName

TagID

Location

LastDate

LastSeen

Department

Last\_seen\_within\_1\_month

Last\_seen\_within\_3\_months

Last\_seen\_within\_year

Last\_seen\_more\_than\_year

Department

X

X

Totals

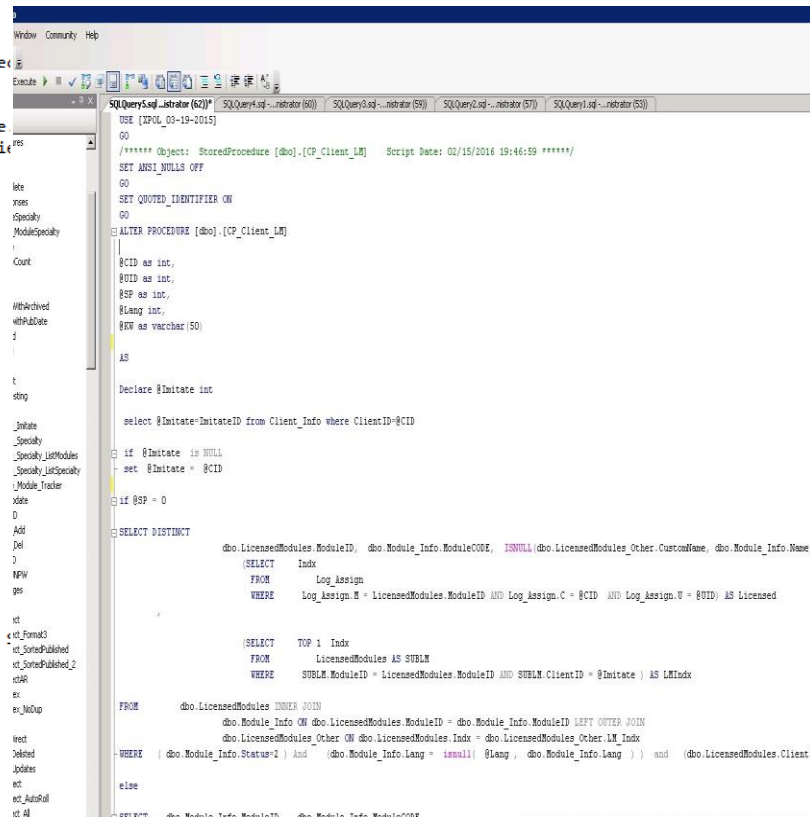
		X			
	X				
87	14	14	56	171	
1JPW		1	1	4	6
2JCP				1	1
2JPE				3	3
2JPW		1	2	10	13
2RCP				1	1

Table	Name	Unit						
Count	AT							
Building	AT	--D	-M-	-MD	1-D	1MD	null	Totals
Ambulatory Clinics		57		68	449	135		709
Anesthesia		1		38	91	70		200
Capital Management				3				3
Cardiothoracic Surgery				2		1		3
Care Coordination Division				2	9	13		24
Carver College of Medicine (CCOM)				6	2	3		11
Center for Disabilities and Development		4		14	34	22		74
Central Sterilizing Services				6	149	48		203
Clinical Quality, Safety & Performance Improvement				8	2	16		26
Compassus				2				2
Compliance						2		2
Dermatology		2		5	3	5		15
Emergency Medicine		9		8	142	71		230
Engineering Services				40	5	8		53
Environmental Services		1		6	211	7		225
Family Medicine		1		39	8	45		93
Food & Nutrition Services		3		45	149	49		246
Guest Services		7			54	2		63
HCIS		21		96	53	71		241
Heart and Vascular Center (HVC)		6		31	113	44		194
Holden Comprehensive Cancer Center (HCCC)		21		61	89	98		269
Hospital Administration		3		18	7	6		34
Hospital Dentistry					1	6		7
Housewide Services		5		405	84	861		1,355
Inpatient Units		1			277	7		285
Institute for Clinical and Translational Science		1						2
Integrated Call Center (ICC)		18		3	28	3		54
Internal Medicine		7		129	21	83		240
Iowa Rehab Hospital				8				8
Iowa River Landing		5		12	374	97		488
Joint Office of Patient Financial Services		65		4	31	6		106
Marketing and Communication				6				6

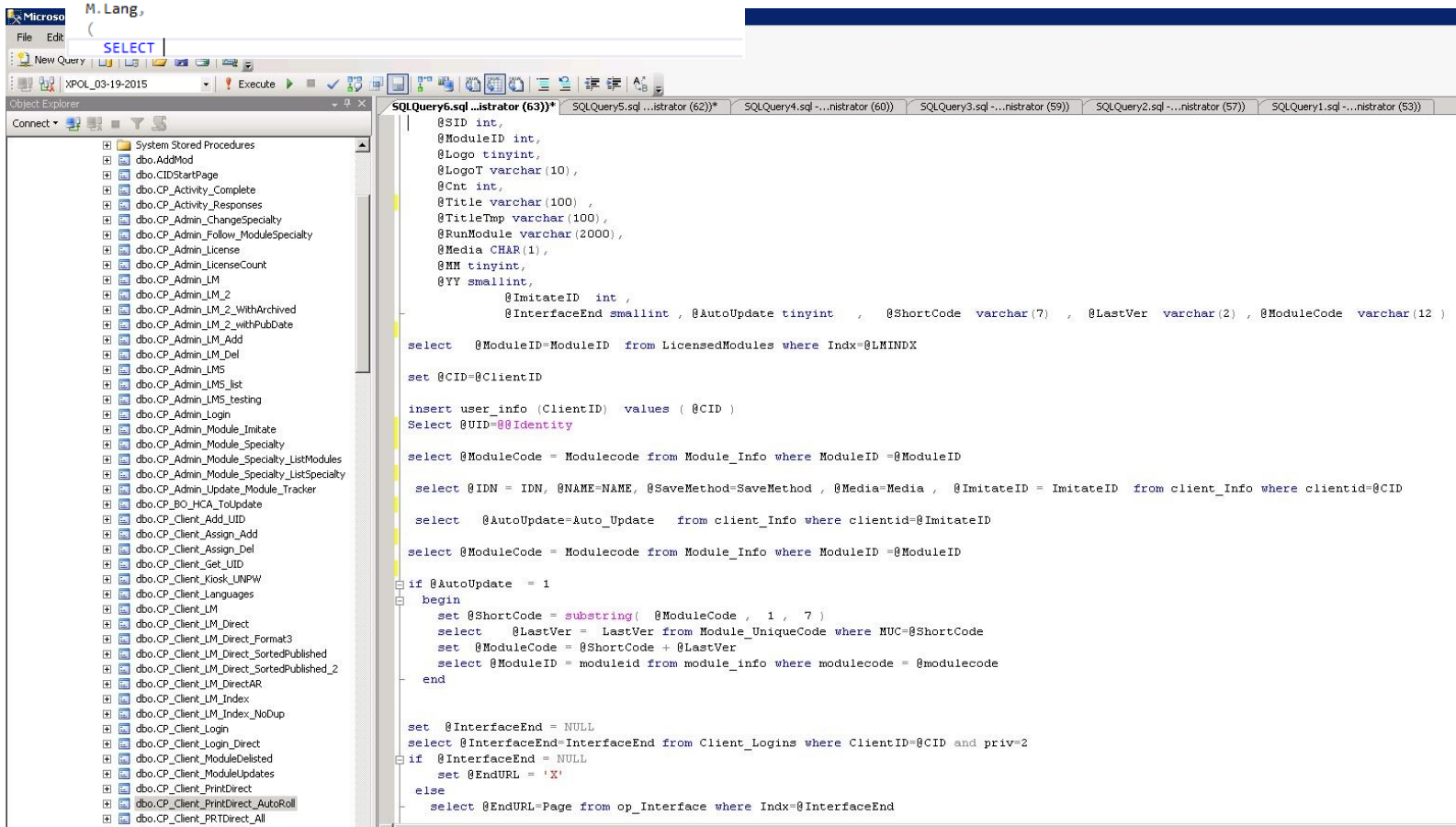
Actual numbers have been modified for demo purpose

## 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_Spe
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
INNER JOIN dbo.Specialties ON dbo.Module_Specialty.Specialty = dbo.Specialti
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 =
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 as 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)
        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.Client
else
    SELECT
        dbo.Module_Info.ModuleID,
        dbo.Module_Info.ModuleCODE,
```



```
Microsoft
File Edit
New Query
XPOL_03-10-2015
Execute
Object Explorer
Connect
System Stored Procedures
dbo.AddMod
dbo.CIDStartPage
dbo.CP_Activity_Complete
dbo.CP_Activity_Responses
dbo.CP_Admin_ChangeSpecialty
dbo.CP_Admin_Follow_ModuleSpecialty
dbo.CP_Admin_License
dbo.CP_Admin_LicenseCount
dbo.CP_Admin_LM
dbo.CP_Admin_LM_2
dbo.CP_Admin_LM_2_WithArchived
dbo.CP_Admin_LM_2_WithPubDate
dbo.CP_Admin_LM_Add
dbo.CP_Admin_LM_Del
dbo.CP_Admin_LMS
dbo.CP_Admin_LMS_List
dbo.CP_Admin_LMS_Testing
dbo.CP_Admin_Login
dbo.CP_Admin_Module_Imitate
dbo.CP_Admin_Module_Specialty
dbo.CP_Admin_Module_Specialty_ListModules
dbo.CP_Admin_Module_Specialty_ListSpecialty
dbo.CP_Admin_Update_Module_Tracker
dbo.CP_BO_HCA_ToUpdate
dbo.CP_Client_Add_UID
dbo.CP_Client_Assign_Add
dbo.CP_Client_Assign_Del
dbo.CP_Client_Get_UID
dbo.CP_Client_Kiosk_UNPW
dbo.CP_Client_Languages
dbo.CP_Client_LM
dbo.CP_Client_LM_Direct
dbo.CP_Client_LM_Direct_Format3
dbo.CP_Client_LM_Direct_SortedPublished
dbo.CP_Client_LM_Direct_SortedPublished_2
dbo.CP_Client_LM_DirectAR
dbo.CP_Client_LM_Index
dbo.CP_Client_LM_Index_NoDup
dbo.CP_Client_Login
dbo.CP_Client_Login_Direct
dbo.CP_Client_ModuleDelisted
dbo.CP_Client_ModuleUpdates
dbo.CP_Client_PrintDirect
dbo.CP_Client_PrintDirect_AutoRoll
dbo.CP_Client_PRTDirect_All
SQLQuery6.sql...istrator (63)*
SQLQuery5.sql...istrator (62)*
SQLQuery4.sql...istrator (60)
SQLQuery3.sql...istrator (59)
SQLQuery2.sql...istrator (57)
SQLQuery1.sql...istrator (53)
@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

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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](#)
  - [Arthritis](#)
  - [Atrial Fibrillation](#)
  - [Back Pain](#)
  - [Brain Cancer](#)
  - [Bell's Palsy](#)
  - [Breast Cancer](#)
  - [Burns](#)
- Tests and Diagnostic Procedures**
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  - [Bone Densitometry](#)
  - [Breast Lump - Biopsy](#)
  - [Colonoscopy](#)
  - [Coloscopy](#)
  - [Coronary Angiography and Angioplasty](#)
  - [CT Scan \(CAT Scan\)](#)
  - [Cystoscopy](#)
  - [Diagnostic Laparoscopy](#)
  - [Echocardiogram](#)
  - [Echocardiography Stress Test](#)
  - [Intravenous Pyelogram \(IVP\)](#)
  - [Knee Arthroscopy](#)
  - [Mammogram](#)
  - [MRI](#)
  - [Myelogram](#)

Start Messenger Windows Explorer Internet Explorer

### X-Plain Online

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

```
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 - Confección de carbohidratos

Introducción

¿Cuáles de los siguientes grupos de alimentos tienen el mayor impacto en el nivel de azúcar en la sangre?

1 Carbohidratos.

2 Grasas y aceites.

3 Proteínas.

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

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 [ ]: