Tony Nahra

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SKILLS

Summary: 25 years experience developing software, managing systems, reporting, planning, evaluating and budgeting **Technologies:** MS SQL, PowerBI, Epic systems, Amazon AWS, XML/XSL, HTML5, Web Services, Excel, Access, SharePoint **Programming Languages:** Python, Pandas, ETL, OLAP, Tableau, C#, JavaScript, PHP, SQL, VBA, Office365 Add-ins

PROFESSIONAL EXPERIENCE

UI Health Care: CCA division

Jul. 2023 - Present

Coralville, Iowa, 52241, USA Application Developer

Application development and administration of various systems:

- Epic Unified Communication
- Voalte administration
- MS Teams and Sharepoint
- Message Media
- Securitas RTLS

Member of two governance groups: MS-Teams and Message Media

Patient Education Institute

Jul. 2001 - June 2023

Coralville, Iowa, 52241, USA Senior Analyst Programmer

Interactive Tutorial Engine/Player with LMS integration:

- Designed and developed a tutorial player with voice narration, questions, feedback, glossary, scoring features and multilingual capabilities to improve learning outcomes and increase user engagement
- Database Driven LMS with completion records, response analysis and usage reporting
- Worked with major healthcare institutions: NLM, Kaiser Permanente, Cleveland Clinic, HCA and others
- Managed projects across continents and in different languages
- Generated training material and plans

Abu Dhabi Investment Authority

Feb. 1994 - Jun. 2001

Abu Dhabi, U.A.E.

IT Education Consultant

Financial systems data analysis:

- Assisted financial analysts build models, data warehouse, OLAP and drill down
- Automated tasks and consolidated data from Reuters, Bloomberg and other sources
- Generated periodic reports, statistical regression, back-testing, and time-series seasonality analysis

CERTIFICATION

Epic Systems	EpicCare Inpatient Clinical Documentation	Oct 2024
Epic Systems	Data Courier Mover Badge	Nov 2024

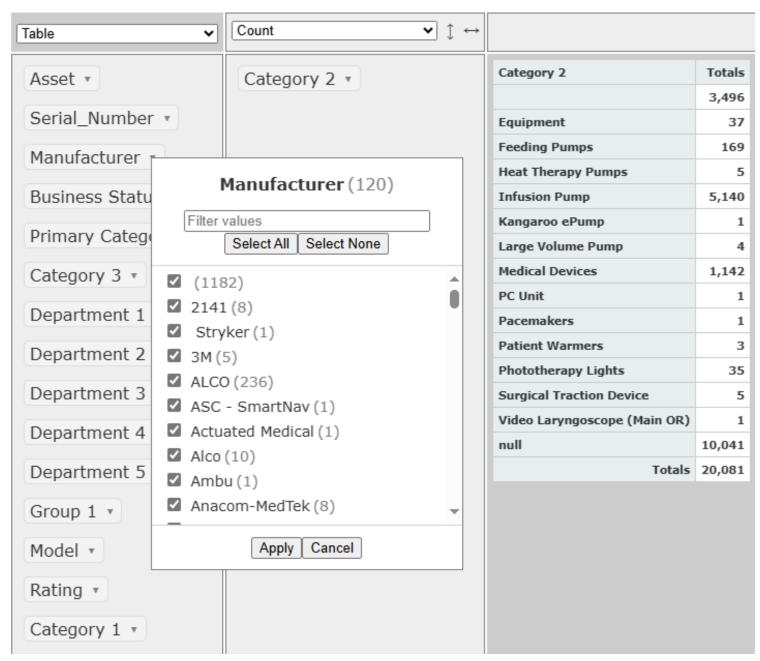
EDUCATION

American University of Beirut	Beirut, Lebanon	Aug 1988
Bachelor of Engineering	Electrical Engineering	

More details and sample projects at https://tonynahra.github.io/cv

Screenshots of sample projects that I designed and developed

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

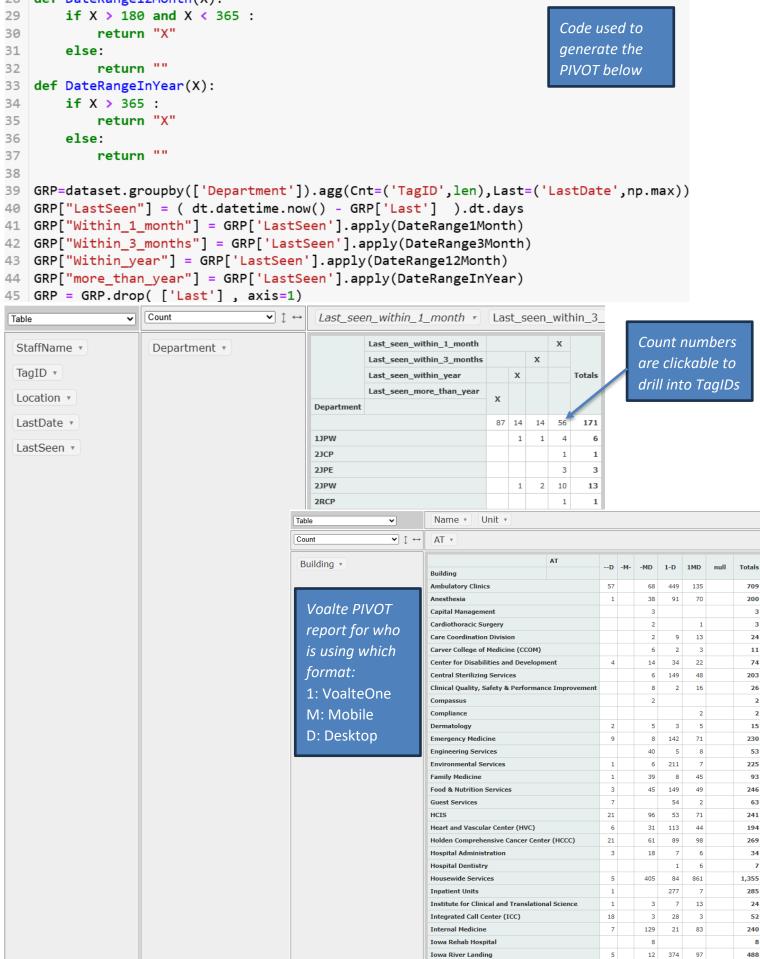


Voalte report to calculate monthly average Time_To_Read messages then use UNION to combine with other months

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):

if X > 180 and X < 365 :



Joint Office of Patient Financial Services

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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_Spec;
             INNER JOIN dbo.Module_Type ON dbo.Module_Info.Type = Module_Type.Indx
                                                                                                                               Execute > - < 17 - - 19 0 0 0 1 2 2 2 2 5 5.
             INNER JOIN dbo.Specialties Spe ON dbo.Module_Info.Specialty = Spe.SP
                                                                                                                                        - = X
                                                                                                                                              5QLQueryS.sql ..istrator (62))* 5QLQuery4.sql -..nebrator (60)) 5QLQuery3.sql -..nebrator (59)) 5QLQuery2.sql -..nebrator (57)) 5QLQuery1.sql -..nebrator (53))
             INNER JOIN dbo.Module_Language ON dbo.Module_Info.Lang = dbo.Module_Language.
                                                                                                                                                USE [XPOL 03-19-2015]
             INNER JOIN dbo.Specialties ON dbo.Module_Specialty.Specialty = dbo.Specialties
                                                                                                                                                             StoredProcedure [dbo].[CP_Client_LM] Script Date: 02/15/2016 19:46:59 *******
          WHERE
                                                                                                                                                SET ANSI NULLS OFF
                                                                                                                                                SET QUOTED IDENTIFIER ON
                dbo.Module Info.ModuleCODE = @FiltK
                                                                                                                               onses
                                                                                                                                                ALTER PROCEDURE [dbo].[CP Client LM]
             and (dbo.Module_Info.Status <> 3) else if @SpDest =-2
                                                                                                                               Count
                                                                                                                                                @CID as int,
         SELECT
                                                                                                                                                BUID as int
BSP as int,
             TOP 100 PERCENT M.ModuleID AS ModuleID,
            M.ModuleCODE,
                                                                                                                               ##harrhived
                                                                                                                                                BLang int,
                                                                                                                                                BKW as varchar (50)
            M. Lang.
            1 AS Licensed.
             Specialties 1. SPName AS Specialty,
                                                                                                                                                Declare #Imitate in
             dbo.Module_Language.[Language],
                                                                                                                               sting
            M.Name AS Module_Title,
                                                                                                                                                select @Imitate=ImitateID from Client Info where ClientID=@CID
            MT.M_Type AS asType,
                                                                                                                               Specialty
             dbo.LicensedModules.ClientID,
                                                                                                                                                if @Imitate is N
                                                                                                                               Specialty ListModules
                                                                                                                               _specialty_ListSpecialty
_Specialty_ListSpecialty
_Module_Tracker
xdate
                                                                                                                                                set @Imitate = @CID
             Specialties_1.SP AS DestSpecialty
          FROM
             dbo.Module_Info M
                                                                                                                                                SELECT DISTINCT
             {\tt INNER\ JOIN\ dbo.Module\_Language\ ON\ M.Lang\ =\ dbo.Module\_Language.Indx}
                                                                                                                                                                dbo.LicensedModules.ModuleID, dbo.Module_Info.ModuleCODE, ISNULL(dbo.LicensedModules_Other.CustomName, dbo.Module_Info.Name
             INNER JOIN dbo.Module_Type MT ON M.Type = MT.Indx
                                                                                                                                                                    (SELECT
                                                                                                                                                                           Indx
             INNER JOIN dbo.Specialties Spe ON M.Specialty = Spe.SP
                                                                                                                                                                               Log lesion
                                                                                                                                                                     FROM
                                                                                                                                                                             Log_Assign.M = LicensedModules.ModuleID AND Log_Assign.C = @CID AND Log_Assign.U = @UID) AS Licensed
             INNER JOIN dbo.LicensedModules ON M.ModuleID = dbo.LicensedModules.ModuleID
             INNER JOIN dbo.Specialties Specialties_1 ON dbo.LicensedModules.Specialty =
                                                                                                                                rt Format's
          WHERE
                                                                                                                                                                           TOP 1 Indx
                                                                                                                               xt_SortedPublished
xt_SortedPublished_2
                                                                                                                                                                               LicensedModules &S SUBLM
                                                                                                                                                                     FROM
                                                                                                                                                                     BHADA
                                                                                                                                                                            SUBLM ModuleID = LicensedModules ModuleID AND SUBLM ClientID = @Imitate | AS LMIndo
               M.Type = ISNULL(@Type, M.Type)
                                                                                                                                                FROM
                                                                                                                                                         dbo.LicensedModules INNER JOI
                                                                                                                               ex_NoDup
                                                                                                                                                                On Module Info Wide LicensedModules ModuleID = dio Module Info ModuleD LEFT OUTER JOIN

doo.LicensedModules Other ON doo.LicensedModules.Indx = dio LicensedModules Other.LM Indx

Info Status*2 ) And (doo.Module Info Lang = isuall( Glang , doo.Module_Info Lang ) ) and (doo.LicensedModules.Client
             AND M.Status <> 3
             AND dbo.LicensedModules.ClientID = @CID
                                                                                                                               Delisted
                                                                                                                                                WHERE
                                                                                                                                                     ( dbo.Module Info.Status=2 ) And
             and M.Specialty = isnull(@FiltS, M.Specialty)
                                                                                                                               Jpdates
             and M.[Lang] = isnull(@FiltL, M.[Lang])
             and M.ModuleCode + M.Name + M.keywords like '%' + isnull(@FiltK, '%') +
                                                                                                                                                       dho Modula Info ModulaID dho Modula Info ModulaCODE
          ORDER BY
             M. Sorting,
             M.Name else
         SELECT
             TOP 100 PERCENT M.ModuleID AS ModuleID,
             M.ModuleCODE,
            M. Lang,
Microso
                SELECT
 New Query | 🔟 | 🝱 |
                                 XPOL_03-19-2015
                                                   → 7 ×
                                                                  SQLQuery6.sql ...istrator (63))* SQLQuery5.sql ...istrator (62))* SQLQuery4.sql -...nistrator (60)) SQLQuery3.sql -...nistrator (59)) SQLQuery2.sql -...nistrator (57)) SQLQuery2.sql -...nistrator (57))
                                                                         @SID int,
@ModuleID int,
Connect * 🛂 眼 🔳 🔻 🌋

    System Stored Procedures
    Image: System Stored Procedures
    Image: System Stored Procedures
    Image: System Stored Procedures

                                                           -
                                                                          @Logo tinyint,
               @LogoT varchar(10),
                                                                          ACnt 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
               insert user_info (ClientID) values ( @CID )
                                                                     Select @UID=@@Identity

    dbo.CP_Admin_Module_Specialty_ListModules
    dbo.CP_Admin_Module_Specialty_ListSpecialty

                                                                     select @ModuleCode = Modulecode from Module Info where ModuleID =@ModuleID
                                                                     select BIDN = IDN, BNAME=NAME, BSaveMethod=SaveMethod, BMedia=Media, BImitateID = ImitateID from client Info where clientid=BCID

    □ dbo.CP Admin Update Module Tracker

    doo.CP_Admini_Opdate_indu
    doo.CP_BO_HCA_ToUpdate
    doo.CP_Client_Add_UID
    doo.CP_Client_Assign_Add

                                                                     select @AutoUpdate=Auto Update from client Info where clientid=@ImitateID

    dbo.CP_Client_Assign_Del
    sign dbo.CP_Client_Get_UID
    sign dbo.CP_Client_Get_UID
    sign dbo.CP_Client_Kiosk_UNPW

                                                                     select @ModuleCode = Modulecode from Module Info where ModuleID =@ModuleID
                                                                   if @AutoUpdate = 1
               begin
                                                                         set @ShortCode = substring( @ModuleCode ,
                                                                         select @LastVer = LastVer from Module_UniqueCode where MUC-@ShortCode
set @ModuleCode = @ShortCode + @LastVer
select @ModuleID = moduleid from module_info where modulecode = @modulecode

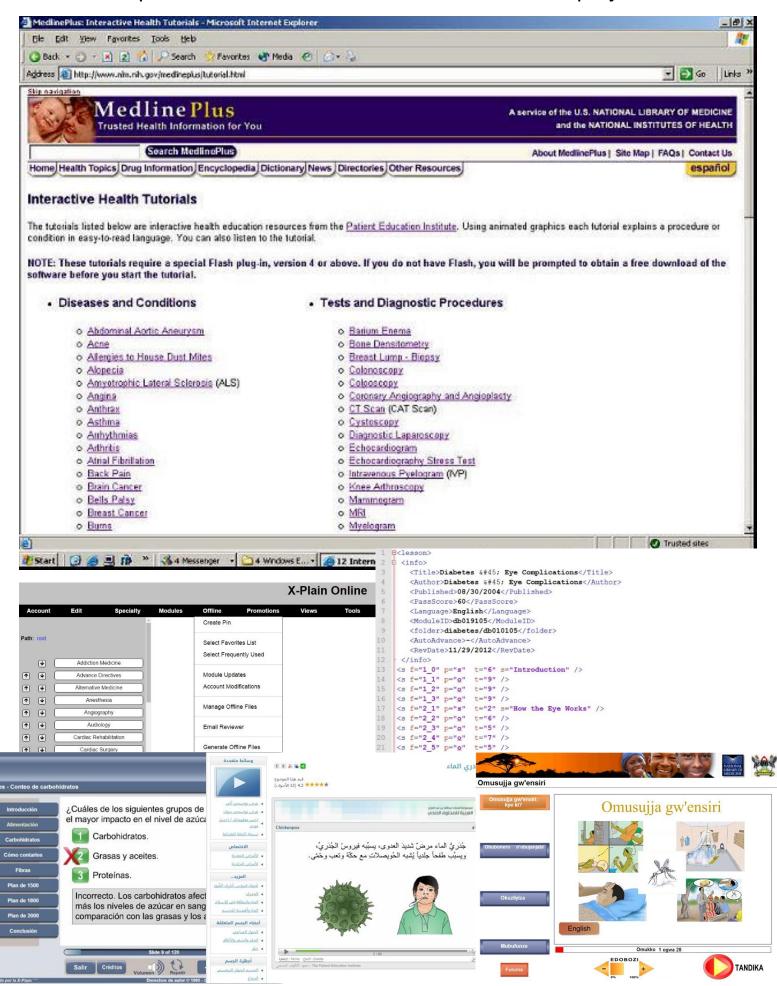
    dbo.CP_Client_Un_Direct_sortean
    dbo.CP_Client_LM_Index
    dbo.CP_Client_LM_Index_NoDup
    dbo.CP_Client_Login_Direct
    dbo.CP_Client_Login_Direct
    dbo.CP_Client_Login_Direct
    dbo.CP_Client_ModuleDelisted
                                                                     set @InterfaceEnd =
                                                                     select @InterfaceEnd=InterfaceEnd from Client_Logins where ClientID=@CID and priv=2
                                                                     if @InterfaceEnd = NULL
                set @EndURL = 'X'
               dbo.CP_Client_PrintDirect
dbo.CP_Client_PrintDirect_AutoRoll
dbo.CP_Client_PrintDirect_AutoRoll
dbo.CP_Client_PRTDirect_All
                                                                        select @EndURL=Page from op Interface where Indx=@InterfaceEnd
```

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

```
SELECT
  TOP 100 PERCENT Specialties. SPName AS Specialty,
  SUM( CASE WHEN module info.Lang = 1 THEN 1 ELSE 0 END ) AS English,
  SUM( CASE WHEN module_info.Lang = 2 THEN 1 ELSE 0 END ) AS Spanish,
  SUM( CASE WHEN module_info.Lang = 3 THEN 1 ELSE 0 END ) AS Arabic,
  SUM( CASE WHEN module_info.Lang = 4 THEN 1 ELSE 0 END ) AS Vietnamese
FROM
  LicensedModules
  INNER JOIN Module Info ON LicensedModules.ModuleID = Module Info.ModuleID
  INNER JOIN Specialties ON LicensedModules.Specialty = Specialties.SP
  INNER JOIN Module_Language ON Module_Info.Lang = Module_Language.Indx
WHERE LicensedModules.ClientID = 91
GROUP BY
  Specialties.SPName,
  Specialties.Type,
  Module_Info.Status
  Specialties.Type = 1 AND Module_Info.Status = 2
ORDER BY
Specialty
```

```
ALTER PROCEDURE [CP_Survey_Analysis]
@ClientID smallint,
@ModID varchar(10),
@d1 smalldatetime.
@d2 smalldatetime AS
 TOP 100 PERCENT Activity_Responses.QuestionNumber,
 Activity_Responses.UserResponse,
 COUNT(Activity_Responses.Indx) AS cnt,
  Module_Questions.Text AS Question,
 Module_Answers.Text AS Reply,
 Log_Activity.ClientID
Activity_Responses
 INNER JOIN Log_Activity ON Activity_Responses.ActivityIndex = Log_Activity.Indx
 INNER JOIN Module_Info ON Log_Activity.ModuleID = Module_Info.ModuleID
 INNER JOIN Module_Questions ON Activity_Responses.QuestionNumber = Module_Questions.Qcode
 AND Module_Info.ModuleCODE = Module_Questions.ModuleCode
  INNER JOIN Module_Answers ON Activity_Responses.QuestionNumber = Module_Answers.Qcode
  AND Activity_Responses.UserResponse = Module_Answers.Answer
  AND Module_Info.ModuleCODE = Module_Answers.ModuleCode
Activity_Responses.DT BETWEEN @d1 AND @d2
GROUP BY
 Activity_Responses.QuestionNumber,
 Activity_Responses.UserResponse,
 Module_Info.ModuleCODE,
  Module_Questions.Text,
 Module Answers.Text,
 Log_Activity.ClientID
Log_Activity.ClientID = @ClientID
 AND Module_Info.ModuleCODE = @ModID
 Activity_Responses.QuestionNumber,
  Activity_Responses.UserResponse
```

Database export to XML for a MedlinePlus static website project



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:///S:/Comm%20&%20Coll%20Apps%20(CCA)/Message%20Media/Reports/"
         RepPath += FN + ".csv"
         print( RepPath )
         df['source_address'] = df['source_address'].str[1:]
         df = df.query(" `account name` == 'UIHealthCare (Main)' " )
         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(
   "S:/Comm & Coll Apps (CCA)/Message Media/Reports/" + FN + ".csv",
   index=False
   )
#print(df.to_markdown())
csv\2025-02-10 02-08-16 detail all.csv
file:///S:/Comm%20&%20Col1%20Apps%20(CCA)/Message%20Media/Reports/2025-02-02_2025-02-
08.csv
Duplicates
```





















