Tony Nahra

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SKILLS

Summary: 25 years experience developing software, managing systems, reporting, planning, evaluating and budgeting

Technologies: MS SQL, Epic systems, Amazon AWS, XML/XSL, HTML5, Web Services, Excel, Access, SharePoint

Programming Languages: Python, Pandas, 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

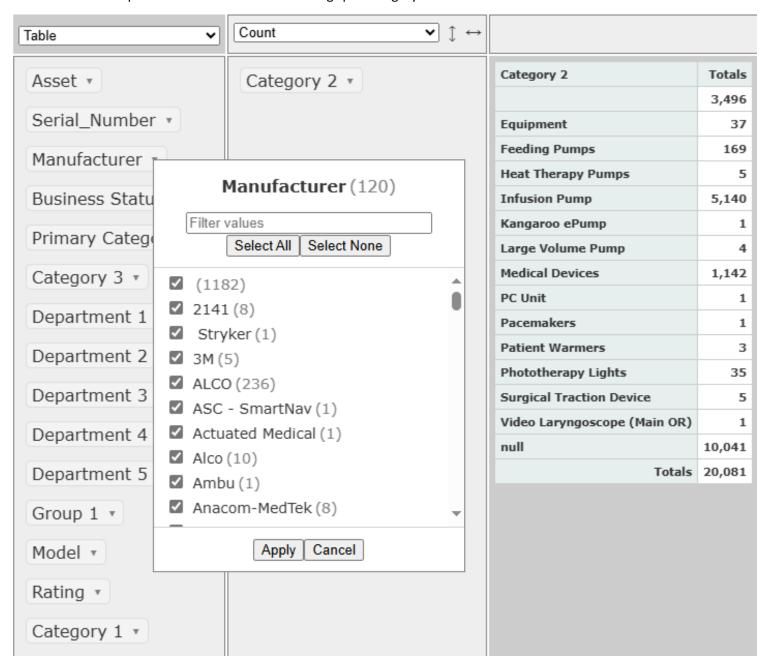
EDUCATION

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

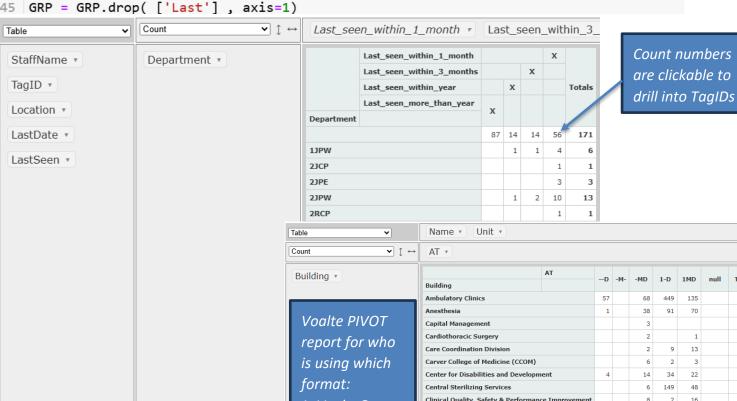
A RTLS DrillDown report to show the count of RTLS tags per category.



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 def DateRange12Month(X): if X > 180 and X < 365 : Code used to return "X" generate the else: return "" PIVOT below def DateRangeInYear(X):

if X > 365 : return "X" else: return "" GRP=dataset.groupby(['Department']).agg(Cnt=('TagID',len),Last=('LastDate',np.max)) GRP["LastSeen"] = (dt.datetime.now() - GRP['Last']).dt.days GRP["Within_1_month"] = GRP['LastSeen'].apply(DateRange1Month) GRP["Within_3_months"] = GRP['LastSeen'].apply(DateRange3Month) GRP["Within_year"] = GRP['LastSeen'].apply(DateRange12Month) GRP["more_than_year"] = GRP['LastSeen'].apply(DateRangeInYear)



Clinical Quality, Safety & Performance Improvement 1: VoalteOne M: Mobile Compliance Dermatology D: Desktop Emergency Medicine **Engineering Services Environmental Services** Family Medicine Food & Nutrition Services **Guest Services**

Heart and Vascular Center (HVC) **Hospital Administration Hospital Dentistry** Housewide Services 1,355 Inpatient Units Institute for Clinical and Translational Science Integrated Call Center (ICC) Iowa Rehab Hospital **Iowa River Landing** Joint Office of Patient Financial Services

Totals

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
           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.Specialties
       WHERE
              dbo.Module Info.ModuleCODE = @FiltK
                                                                                                                                                      1 ×
           and (dbo.Module_Info.Status <> 3) else if @SpDest =-2
                                                                                                                                                              USE [XPOL_03-19-2015]
      SELECT
                                                                                                                                                     -
           TOP 100 PERCENT M.ModuleID AS ModuleID,
                                                                                                                                                                                   StoredProcedure [dbo].[CP_Client_Add_UID] Script Date: 02/15/2016 19:42:51 ******/
                                                                                                                                                              SET ANSI NULLS OFF
          M.ModuleCODE,
                                                                                                                                                              SET QUOTED IDENTIFIER ON
          M. Lang.
          1 AS Licensed.
                                                                                                                                                              ALTER PROCEDURE [dbo] . [CP Client Add UID]
           Specialties 1. SPName AS Specialty,
                                                                                                                                                              @CID int,
@RefID varchar( 1000 )
           dbo.Module_Language.[Language],
                                                                                                                                                              @UserName varchar(50)
@Password varchar(50),
          M.Name AS Module_Title,
          MT.M Type AS asType,
                                                                                                                                                              @Expiration int
                                                                                                                                                                  mail varchar (1000)
           dbo.LicensedModules.ClientID.
                                                                                                                                                              SUID int output
           Specialties_1.SP AS DestSpecialty
                                                                                                                                                               AS
       FROM
           dbo.Module_Info M
                                                                                                                                                               declare @Tmp int
           {\tt INNER\ JOIN\ dbo.Module\_Language\ ON\ M.Lang\ =\ dbo.Module\_Language.Indx}
                                                                                                                                                               select @Tmp=indx from Assign_Logins where UserName=@UserName and not( ( ClientID=@CID and UID=@UID ) ) if @Tmp is NULL
           INNER JOIN dbo.Module_Type MT ON M.Type = MT.Indx
           INNER JOIN dbo.Specialties Spe ON M.Specialty = Spe.SP
                                                                                                                                                                set @Tmp = NUL
           INNER JOIN dbo.LicensedModules ON M.ModuleID = dbo.LicensedModules.ModuleID
                                                                                                                                                                select 8Tmp = ClientID from Assign Logins where UserName = 8UserName and Password = 8Password
          INNER JOIN dbo.Specialties Specialties_1 ON dbo.LicensedModules.Specialty = 5
                                                                                                                                                              if @Tmp is NULL
       WHERE
                                                                                                                                                                 insert User_Info ( ClientID , RefID ) values( \thetaCID, \thetaRefID ) set \thetaUID = \overline{\theta}\thetaIdentity
                                                                                                                                                                  insert Assign Logins ( ClientID , UID , UserName , Password , Expiration, email ) values ( @CID , @@Identi
              M.Type = ISNULL(@Type, M.Type)
           AND M.Status <> 3
                                                                                                                                                              set @UID = -1
end
           AND dbo.LicensedModules.ClientID = @CID
           and M.Specialty = isnull(@FiltS, M.Specialty)
                                                                                                                                                              else
           and M.[Lang] = isnull(@FiltL, M.[Lang])
                                                                                                                                                              set BHID=-2
           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,
 Ne
 學早 早
              SELECT
                                                                              SQLQuerys.sql ...istrator (63))* SQLQuery3.sql ...istrator (52))* SQLQuery3.sql ...istrator (59)) SQLQuery3.sql ...istrator (59)) SQLQuery3.sql ...istrator (57)) SQLQuery3.sql ...istrator (57))
Connect • 🛂 📑 🔻 🛒
                                                                                       ASID int.
                                                                                        @ModuleID int,

    System Stored Procedures

                                                                      •
                                                                                        ALogo tinvint
                  @LogoT varchar(10),
                                                                                       ACnt int.
                                                                                        OTitle varchar(100)
                                                                                       @TitleTmp varchar(100)
                                                                                        @RunModule varchar(2000),
                  @Media CHAR(1)
                  @MM tinyint,
                                                                                       @YY smallint,

    ■ dbo.CP_Admin_LM_2
    ■ dbo.CP_Admin_LM_2_WithArchived
    ■ dbo.CP_Admin_LM_2_withPubDate

                                                                                                     @ImitateID int
                                                                                                     @InterfaceEnd smallint , @AutoUpdate tinyint , @ShortCode varchar(7) , @LastVer varchar(2) , @ModuleCode varchar(12)

■ dbo.CP_Admin_LM_Add

                                                                                 select @ModuleID=ModuleID from LicensedModules where Indx=@LMINDX
                  # J dbo.CP Admin LM Del

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
                                                                                 set @CID=@ClientID
                                                                                  insert user_info (ClientID) values (@CID)
                                                                                 Select RUID-RRIdentity
                  ⊞ 🔄 dbo.CP Admin Module Specialty

    dbo.CP_Admin_Module_Specialty_ListModules
    dbo.CP_Admin_Module_Specialty_ListSpecialty

                                                                                 select @ModuleCode = Modulecode from Module Info where ModuleID =@ModuleID
                 Description of the Control of the C
                                                                                  select 8IDN = IDN, 8NAME=NAME, 8SaveMethod=SaveMethod , 8Media=Media , 8ImitateID = ImitateID from client_Info where clientid=8CID
                                                                                  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
                                                                                                      @LastVer = LastVer from Module_UniqueCode where MUC=@ShortCode
                                                                                       select
                                                                                       set @ModuleCode = @ShortCode + @LastVer select @ModuleID = moduleid from module_info where modulecode = @modulecode

    ■ dbo.CP_Client_LM_Direct_SortedPublished
    ■ dbo.CP_Client_LM_Direct_SortedPublished_2

                                                                                   end

    □ dbo,CP Client LM DirectAR

                     dbo.CP_Client_LM_Index

dbo.CP_Client_LM_Index_NoDup
                                                                                 set @InterfaceEnd = NULL
                  dbo.CP_Client_Login_Direct
dbo.CP_Client_ModuleDelist
                                                                                  select @InterfaceEnd=InterfaceEnd from Client_Logins where ClientID=<math>@CID and priv=2
                                                                                  if @InterfaceEnd =
                                                                                       set @EndURL = 'X'

    □ dbo.CP Client ModuleUpdates

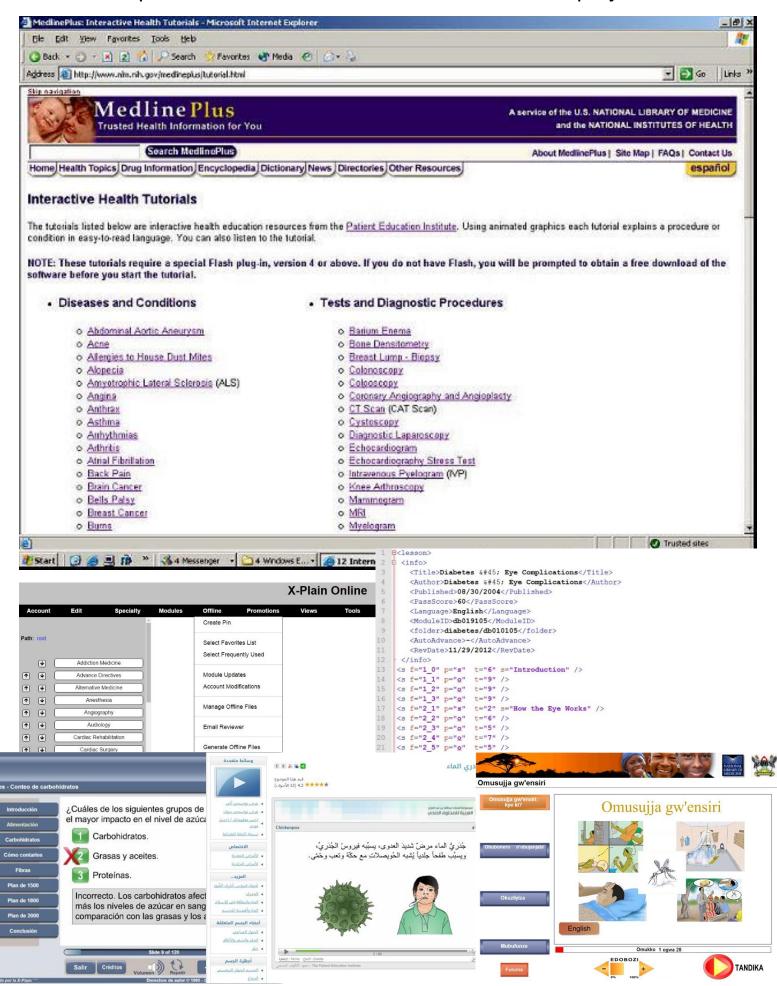
                  select @EndURL-Page from op Interface where Indx-@InterfaceEnd
```

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
```



