Tony Nahra

Cell: (319) 594-1358 . LinkedIn: linkedin.com/in/TonyNahra

Web: tonynahra.github.io . email: tony-nahra@uiowa.edu

SKILLS

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

Project Management: Agile, ITIL, PMI, Atlassian Jira, Github, Microsoft Projects

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, Message Media, Securitas RTLS and MS Teams
- 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	tems EpicCare Inpatient Clinical Documentation				
Epic Systems	Data Courier Mover Badge	Nov 2024			
Microsoft	Fabric Analytics Engineer Associate	Jun 2025			
Oracle University	APEX cloud developer certified professional	May 2025			
Oracle University	Al vector search certified professional	May 2025			
Atlassian	Agile Project Management Professional	Oct 2024			

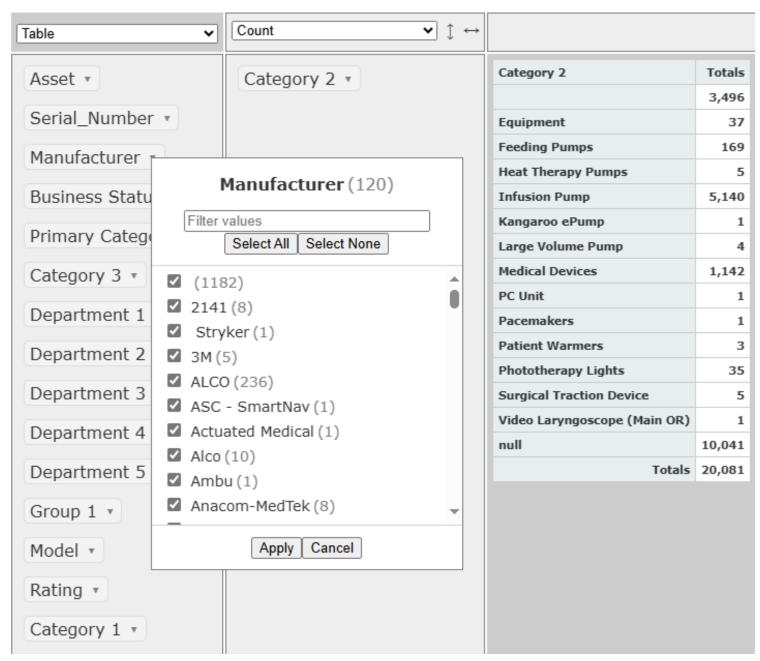
EDUCATION

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

More details and sample projects at https://tonynahra.github.io/cv Last Update: 06/01/2025

Screenshots of sample projects that I designed and developed

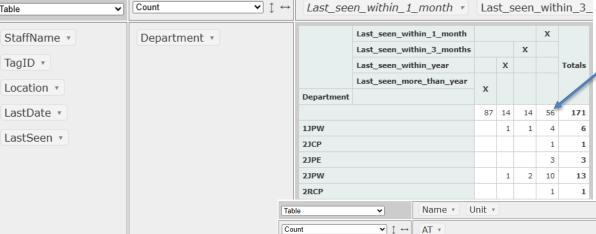
A RTLS DrillDown report to show the count of RTLS tags per category.



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): 28 29 if X > 180 and X < 365 :





Buildina *

Count numbers are clickable to

Voalte PIVOT report for who is using which format: 1: VoalteOne

Building Ambulatory Clinics

Anesthesia

Institute for Clinical and Translational Science

Joint Office of Patient Financial Services

Integrated Call Center (ICC)

Internal Medicine

Iowa Rehab Hospital Iowa River Landing

M: Mobile D: Desktop drill into TagIDs

1-D 1MD

28

21

12 374 97 Totals

709

200

24 52

240

488

106

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

18

65

--D -M- -MD

68 449 135

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
                                                                                                                      Execute > = ✓ $5 字目 27 項 (1) 图 (1) 图 2 字字 56 ;
            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
                                                                                                                                           Object: StoredProcedure [dbo].[CP Client LM] Script Date: 02/15/2016 19:46:59 *******/
                                                                                                                                      SET ANSI NULLS OFF
                                                                                                                                      SET QUOTED IDENTIFIER ON
               dbo.Module Info.ModuleCODE = @FiltK
                                                                                                                                      ALTER PROCEDURE [dbo] .[CP Client LM]
            and (dbo.Module_Info.Status <> 3) else if @SpDest =-2
                                                                                                                                      BCID as int
        SELECT
                                                                                                                                      BUID as int
                                                                                                                                      @SP as int,
            TOP 100 PERCENT M.ModuleID AS ModuleID,
           M.ModuleCODE,
                                                                                                                       ath PubDate
                                                                                                                                      BKW as varchar (50)
           M. Lang.
           1 AS Licensed.
            Specialties 1. SPName AS Specialty,
                                                                                                                                      Declare &Imitate int
                                                                                                                      sting
            dbo.Module_Language.[Language],
                                                                                                                                       select @Imitate=ImitateID from Client_Info where ClientID=@CID
           M.Name AS Module_Title,
                                                                                                                      Imitate
                                                                                                                      MT.M_Type AS asType,
                                                                                                                                      if @Imitate is NUL1
            dbo.LicensedModules.ClientID,
                                                                                                                                      set @Imitate = @CID
            Specialties_1.SP AS DestSpecialty
                                                                                                                                     if @SP = 0
         FROM
            dbo.Module_Info M
                                                                                                                                     SELECT DISTINCT
                                                                                                                                                     dbo.LicensedModules.ModuleID, dbo.Module_Info.ModuleCODE, ISNULL(dbo.LicensedModules_Other.CustomName, dbo.Module_Info.Name
            {\tt INNER\ JOIN\ dbo.Module\_Language\ ON\ M.Lang\ =\ dbo.Module\_Language.Indx}
            INNER JOIN dbo.Module_Type MT ON M.Type = MT.Indx
                                                                                                                                                                   Log_Assign
            INNER JOIN dbo.Specialties Spe ON M.Specialty = Spe.SP
                                                                                                                                                         WHERE
                                                                                                                                                                Log_Assign. N = LicensedModules.ModuleID AND Log_Assign.C = @CID AND Log_Assign.U = @CID) AS Licensed
            INNER JOIN dbo.LicensedModules ON M.ModuleID = dbo.LicensedModules.ModuleID
            INNER JOIN dbo.Specialties Specialties_1 ON dbo.LicensedModules.Specialty =
                                                                                                                                                               TOP 1 Indx
         WHERE
                                                                                                                                                                   LicensedModules AS SUBLM
                                                                                                                                                         FROM
                                                                                                                      sct SortedPublished 2
                                                                                                                                                         WHERE
                                                                                                                                                                SUBLM.ModuleID = LicensedModules.ModuleID AND SUBLM.ClientID = @Imitate ) &S LMInds
              M.Type = ISNULL(@Type, M.Type)
                                                                                                                      ex NoDup
                                                                                                                                      FROM
                                                                                                                                               dbo.LicensedModules INNER J
                                                                                                                                                     dbo. Module Info ON dbo. Licensed Modules. ModuleID = dbo. Module Info. ModuleID LEFT OUT
                                                                                                                                           doo.LicensedModules Other ON doo.LicensedModules.Indx = doo.LicensedModules Other.LM Indx (doo.Module Info.Status=2) kmd (doo.Module Info.Lang = issull(@lang, doo.Module Info.Lang)) and (doo.LicensedModules.Client
            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,
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

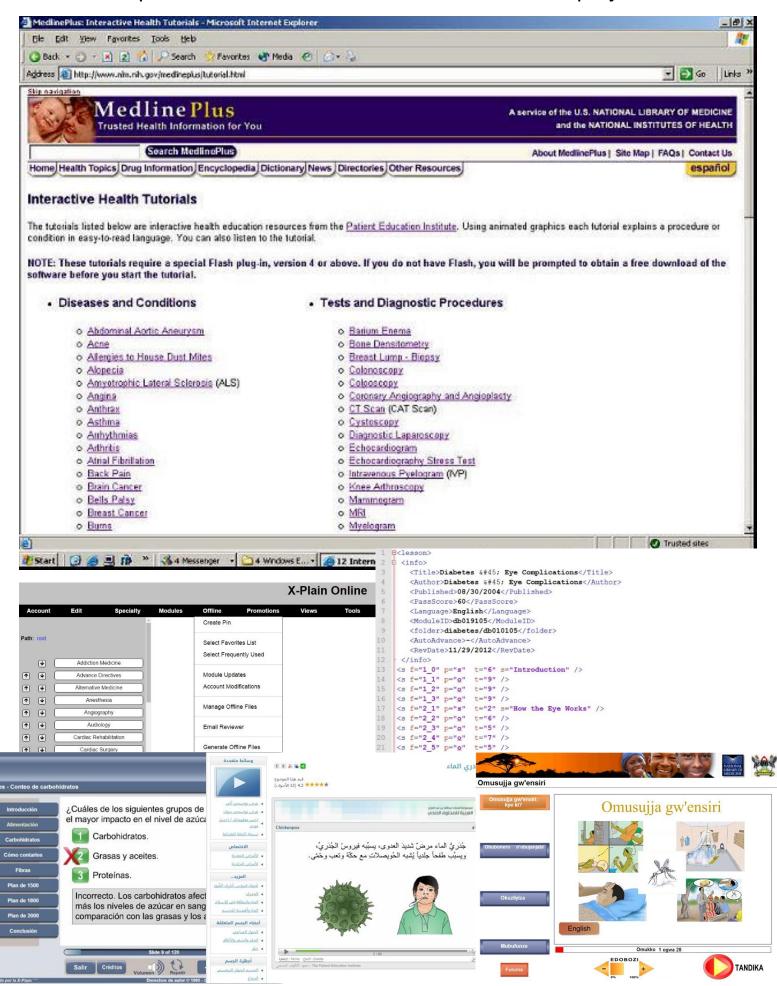
    dbo.CP_Client_Un_Direct_sortean
    dbo.CP_Client_LM_Index
    dbo.CP_Client_LM_Index_NoDup
    dbo.CP_Client_Login_Direct
    dbo.CP_Client_Login_Direct
    dbo.CP_Client_Login_Direct
    dbo.CP_Client_ModuleDelisted
                                                                set @InterfaceEnd =
                                                                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
```















































