

RPA, AI, Machine Learning, & Business Intelligence

INNOVATION

Created & Developed by Sequoah Lloyd, MCP

- RPA – Power Automate
- Data Visualization (Power BI, Tableau)
- Artificial Intelligence & Machine Learning
- Data Sources: Oracle SQL Developer & SQL Server Management Studio, and Python
- Data Modeling
- SharePoint Design & Processes

Fun Facts About Me— Sequoah Lloyd

My Journey:

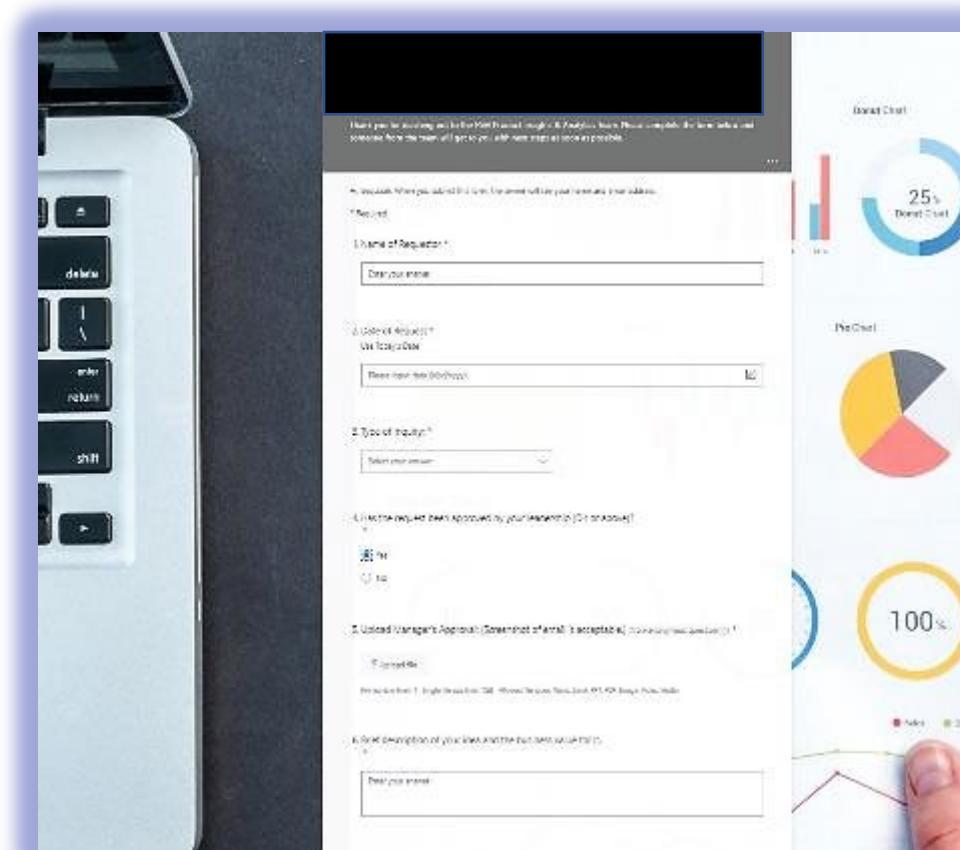
- ✓ I've been in the tech industry professionally for 9 years.
- ✓ I am a true adrenaline junkie at heart and love taking adventures.
- ✓ I fixed my first crashed computer at the age of 9 years old.
- ✓ I taught myself how to code from creating Myspace layouts at 14 years old.
- ✓ I started my career in tech learning web development due to my love of creating page layouts.
- ✓ My love for data happened when I attended Atlantic Technical College learning Business Technology, I started my data career learning Microsoft Access and then I earned my 2013 MOS: Access certification before my instructor facilitated the lesson plan.



Power Automate

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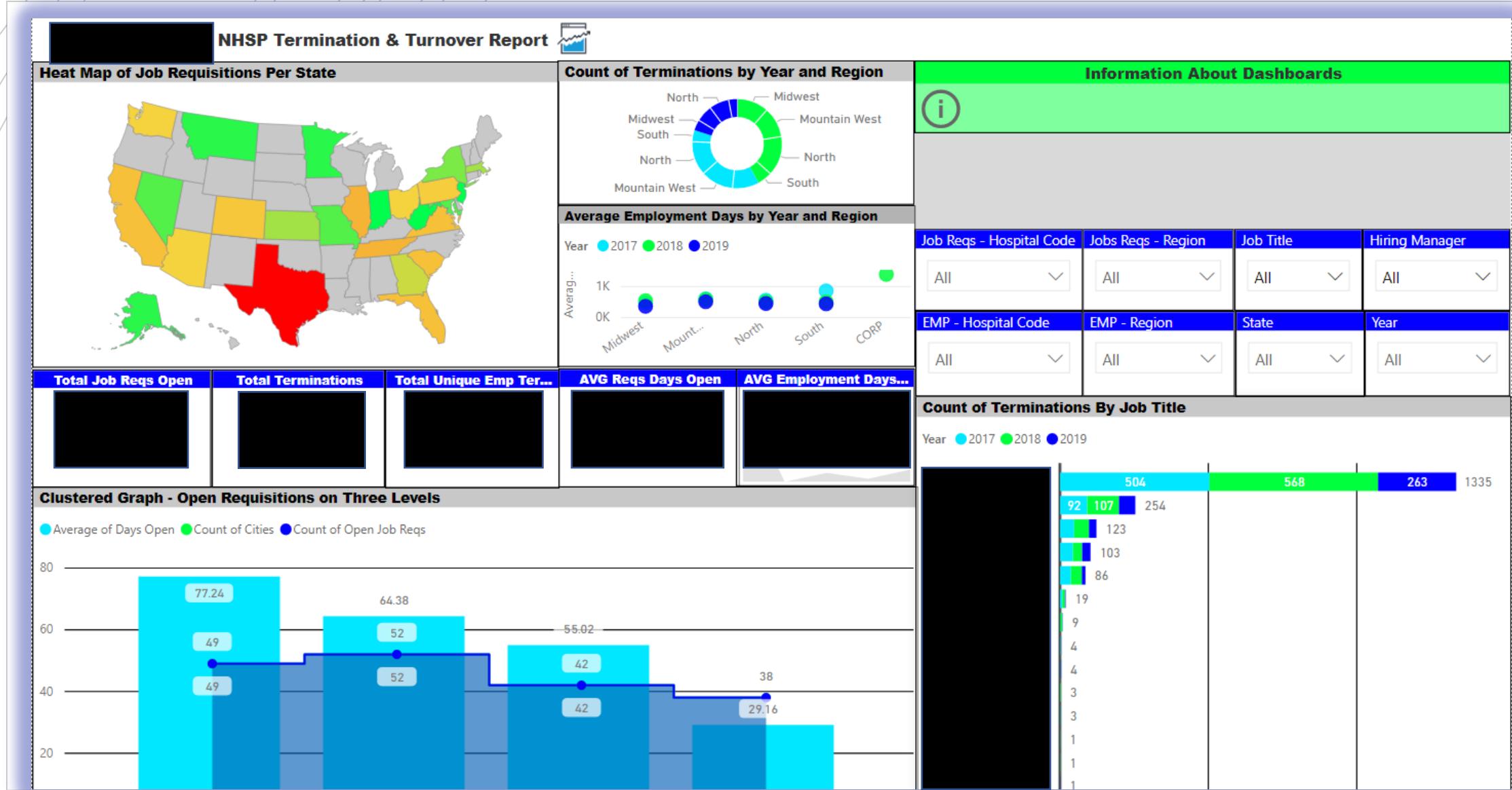
RPA - SharePoint & MS Forms Power Automate Flow



Data Visualizations

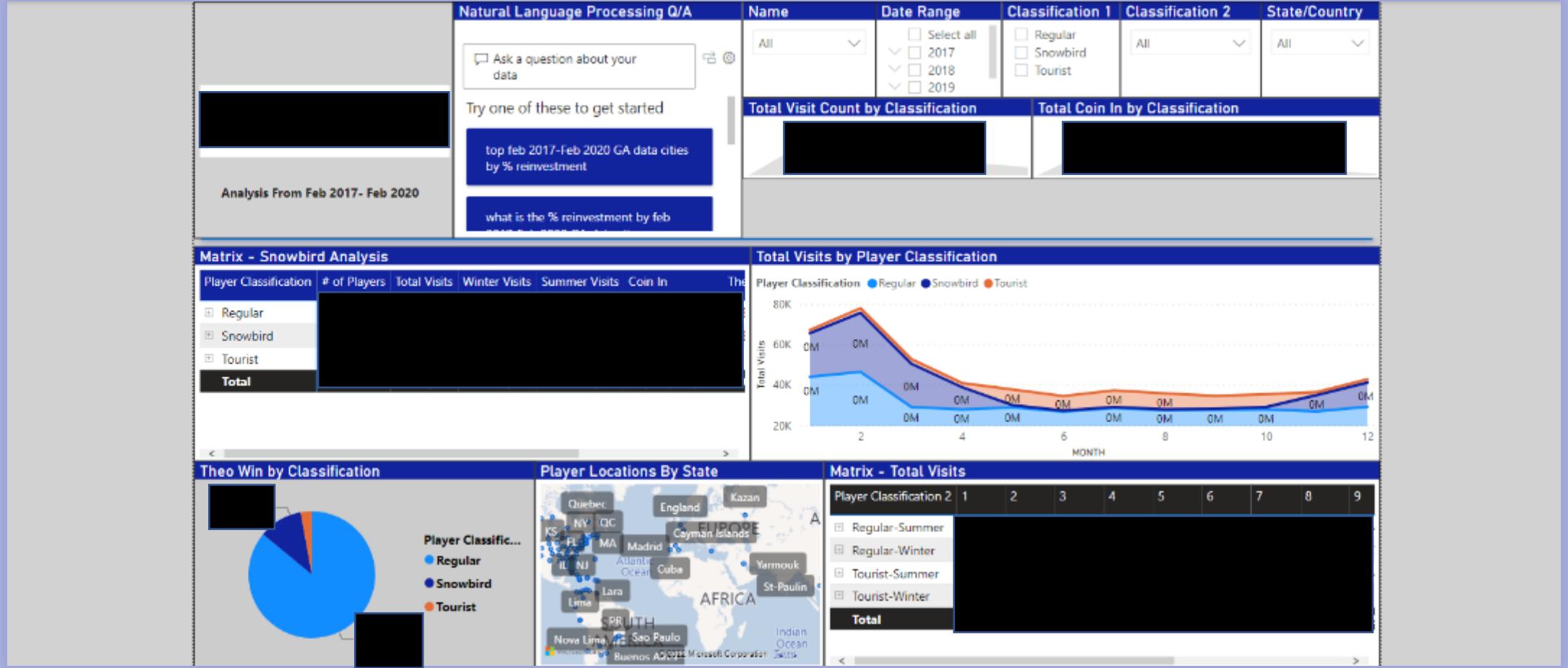
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Power BI Dashboard – Program Employee Terminations & Turnover



Power BI Dashboard – Program Missed Baby Report Due to COVID-19

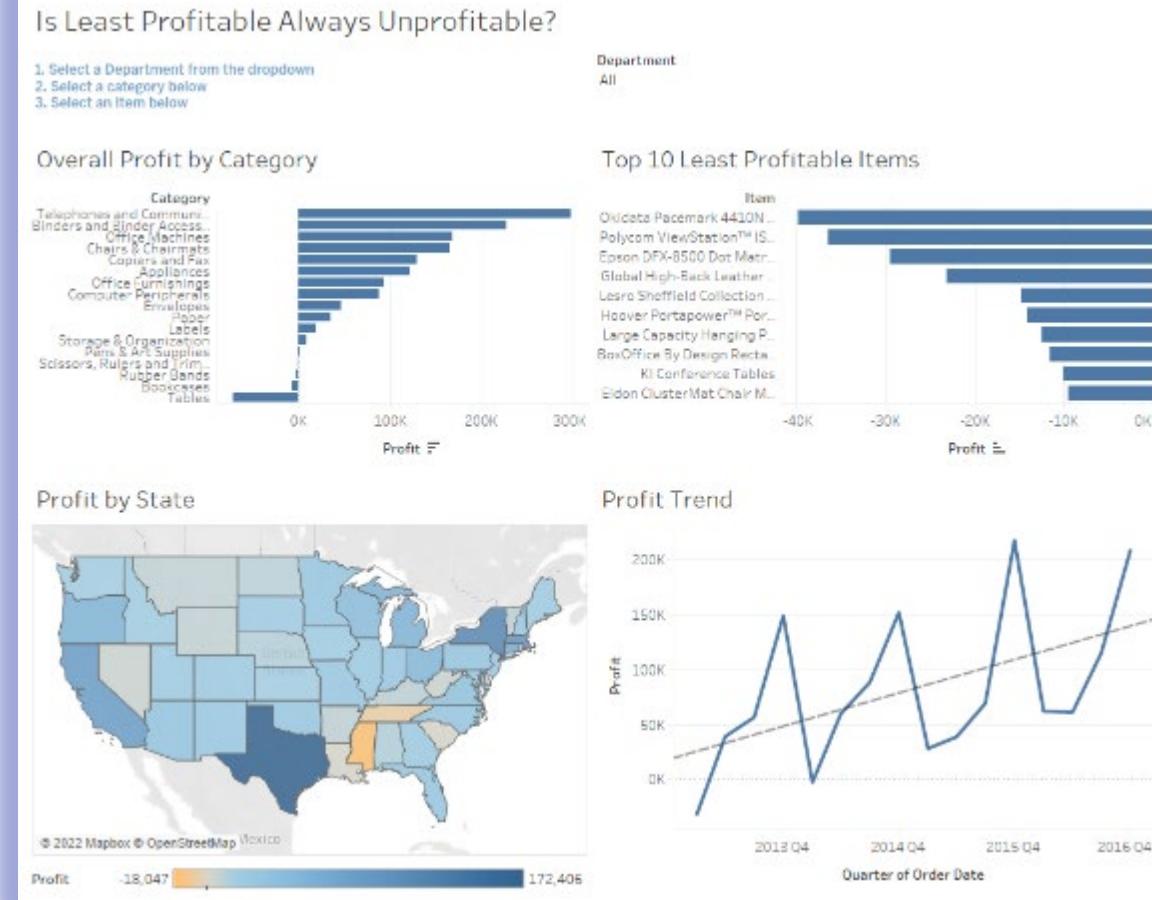
Power BI Dashboard – Snowbird Analysis



Power BI Dashboard – FSM JIRA Ticketing Dashboard



Tableau Dashboard – Is Least Profitable Always UnProfitable?



AI & Machine Learning

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- Natural Language Processing

Power BI Dashboard – Geo Capture with Machine Learning Q/A



Ask a question about your data

Try one of these to get started

Player name with most total number of visits at [REDACTED]

Casinos	First and Last Name	Date Range	Most Visited Casino
All	All	All	All

Total Unique Players

Total Visits by Players

Total # of Casinos Visited by Players

Number of Visits by Casino

Casino [REDACTED]

26K	26026
21K	21147
20K	20400
20K	20132
13K	12940
6K	6442

Total Number of Visits

Matrix - Number of Visits

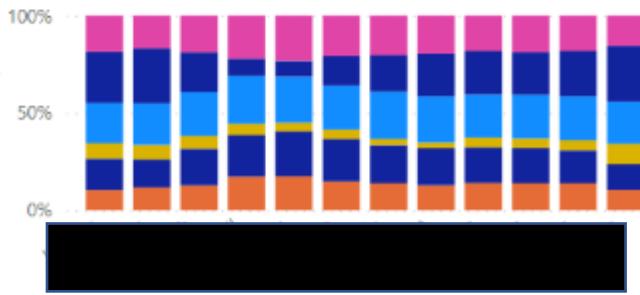
Year	2019	2020	
Casino	Variance %	Count of Players	Total N
[REDACTED]	0.29	5729	
[REDACTED]	0.35	4672	
[REDACTED]	0.41	6062	
[REDACTED]	0.36	4854	
[REDACTED]	0.50	3636	
	0.29	18592	

Total Players - Visits Segment

Frequency of Visits	Total Players
[REDACTED]	22219
[REDACTED]	721
[REDACTED]	255
[REDACTED]	133
[REDACTED]	50
[REDACTED]	47
Total	23515

Number of Players by Casino

Casino [REDACTED]



Count of Players

Month

The Most/Least/Only Casino Visited by Player

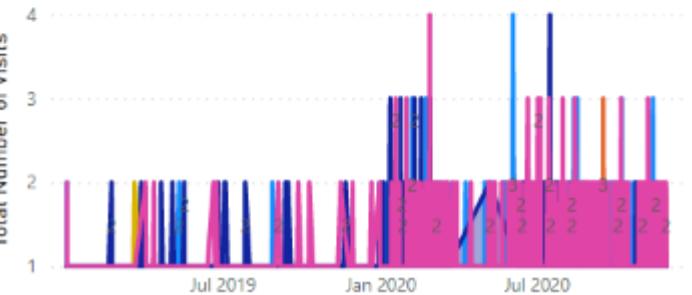
Most Visited Casino

- Seminole Classic Casino
- Seminole Classic Casino
- Gulfstream Park
- Seminole Classic Casino
- Gulfstream Park
- Seminole Classic Casino
- Seminole Hard Rock Hotel & Casino Hollywood
- The Total

Time Interval of Visits Per Player

Casino

- Calder C...
- Gulfstre...
- Magic Ci...
- Seminol...
- Seminol...

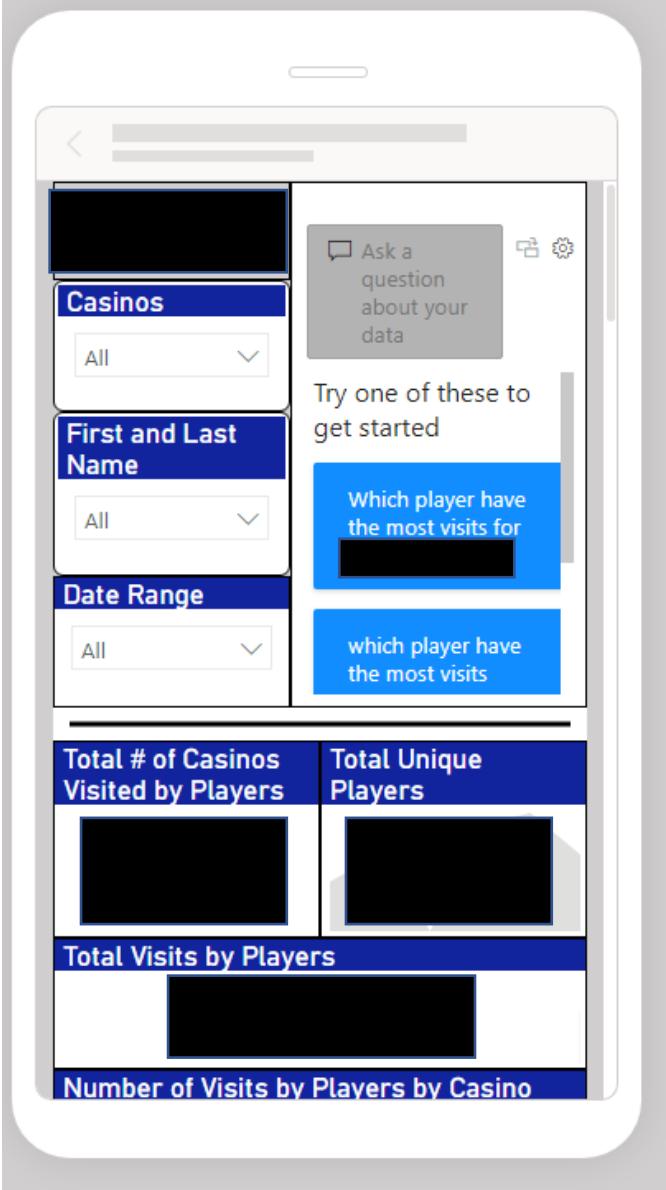


Total Number of Visits

Visit Time

Jul 2019, Jan 2020, Jul 2020

Power BI Dashboard – Mobile Layout for iOS and Android



Power BI Dashboard – Geo Capture with Natural Language Processing Q/A

Player name with most total number of visits at [redacted]

301 Total Number of Visits

Casinos	First and Last Name	Date Range	Most Visited Casino
All	All	All	All

Total Unique Players [redacted]

Total Visits by Players [redacted]

Total # of Casinos Visited by Players [redacted]

Number of Visits by Casino

Casino	Total Number of Visits
[redacted]	26K
[redacted]	21K
[redacted]	20K
[redacted]	20K
[redacted]	13K
[redacted]	6K

Matrix - Number of Visits

Year	2019	2020	
Casino	Variance %	Count of Players	Total N
[redacted]	0.29	5729	
[redacted]	0.35	4672	
[redacted]	0.41	6062	
[redacted]	0.36	4854	
[redacted]	0.50	3636	
Total	0.29	18592	

Total Players - Visits Segment

Frequency of Visits	Total Players
[redacted]	22219
[redacted]	721
[redacted]	255
[redacted]	133
[redacted]	50
[redacted]	47
Total	23515

Number of Players by Casino

Month	Casino	Calder C...	Gulfstre...	Magic Ci...	Seminol...	Seminol...
1	[redacted]	10%	20%	10%	20%	20%
2	[redacted]	10%	20%	10%	20%	20%
3	[redacted]	10%	20%	10%	20%	20%
4	[redacted]	10%	20%	10%	20%	20%
5	[redacted]	10%	20%	10%	20%	20%
6	[redacted]	10%	20%	10%	20%	20%
7	[redacted]	10%	20%	10%	20%	20%
8	[redacted]	10%	20%	10%	20%	20%
9	[redacted]	10%	20%	10%	20%	20%
10	[redacted]	10%	20%	10%	20%	20%
11	[redacted]	10%	20%	10%	20%	20%
12	[redacted]	10%	20%	10%	20%	20%

The Most/Least/Only Casino Visited by Player

Most Visited Casino	Least Visited Casino
Seminole Classic Casino	Seminole Hard Rock Hotel & Casino Hollywood
Seminole Classic Casino	The Gulfstream Park
Gulfstream Park	The Seminole Hard Rock Hotel & Casino Hollywood
Seminole Classic Casino	Calypso Casino
Gulfstream Park	Calypso Casino
Seminole Classic Casino	Calypso Casino
Seminole Hard Rock Hotel & Casino Hollywood	Calypso Casino
Total	

Time Interval of Visits Per Player

Visit Time	Total Number of Visits
Jul 2019	2
Jan 2020	3
Jul 2020	3

Power BI Dashboard – Geo Capture with Natural Language Processing Q/A

Total Number of Visits

20K

Casinos | First and Last Name | Date Range | Most Visited Casino

Total Unique Players | Total Visits by Players | Total # of Casinos Visited by Players

Number of Visits by Casino

Casino	Total Number of Visits
26K	26026
21K	21147
20K	20400
20K	20132
13K	12940
6K	6442

Matrix - Number of Visits

Year	2019	2020	
Casino	Variance %	Count of Players	Total N
Total	0.29	18592	

Total Players - Visits Segment

Frequency of Visits	Total Players
	22219
	721
	255
	133
	50
	47
Total	23515

Number of Players by Casino

The chart displays the count of players for each casino across different months. The y-axis represents the count of players from 0% to 100%, and the x-axis represents the months. The bars are stacked with various colors representing different casinos.

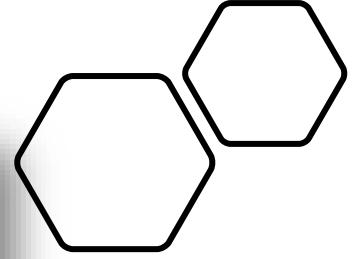
The Most/Least/Only Casino Visited by Player

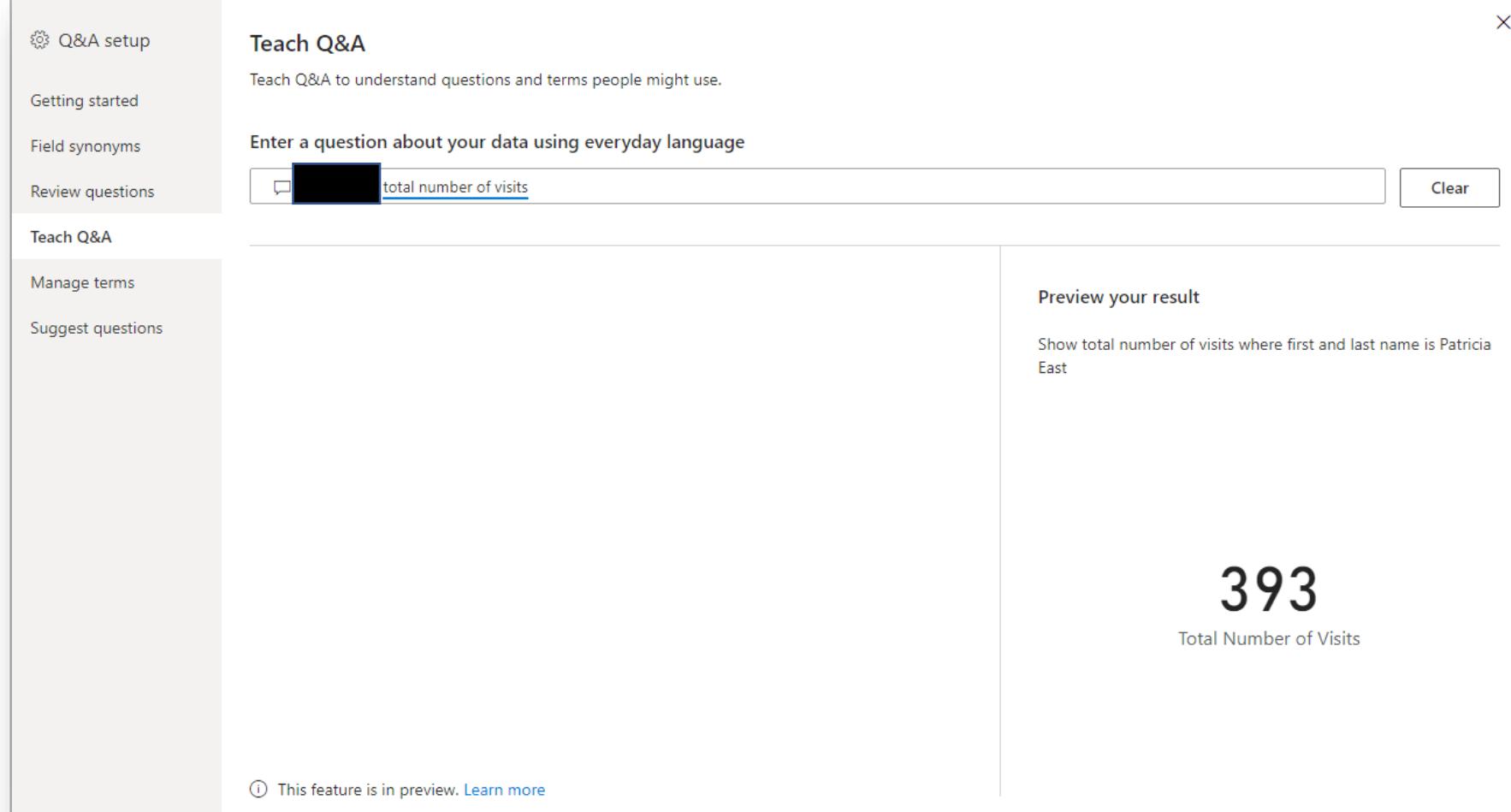
Most Visited Casino	Least Visited Casino
Seminole Classic Casino	Seminole Hard Rock Hotel & Casino Hollywood
Seminole Classic Casino	The Seminole Hard Rock Hotel & Casino Hollywood
Gulfstream Park	The Seminole Hard Rock Hotel & Casino Hollywood
Seminole Classic Casino	The Seminole Hard Rock Hotel & Casino Hollywood
Gulfstream Park	The Seminole Hard Rock Hotel & Casino Hollywood
Seminole Classic Casino	The Seminole Hard Rock Hotel & Casino Hollywood
Seminole Hard Rock Hotel & Casino Hollywood	The Seminole Hard Rock Hotel & Casino Hollywood
Total	

Time Interval of Visits Per Player

The chart shows the total number of visits per player over time intervals. The y-axis represents the total number of visits from 1 to 4, and the x-axis represents the visit time from July 2019 to July 2020. The bars are stacked with various colors representing different players.

Natural Language Processing – (Machine Learning)



**Q&A setup**

Getting started

Field synonyms

Review questions

Teach Q&A

Manage terms

Suggest questions

Teach Q&A

Teach Q&A to understand questions and terms people might use.

Enter a question about your data using everyday language

total number of visits Clear

Preview your result

Show total number of visits where first and last name is Patricia East

393

Total Number of Visits

This feature is in preview. [Learn more](#)

Data Sources

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- Oracle - PL/SQL
- SQL Server Management Studio – T-SQL
- Python

SQL Server Management Studio (SSMS) – T-SQL

```
Incorrect Patient..ON_NT\SA\lloyd (73)) ➔ X
1 SELECT DISTINCT dbo.Facilities.Facility_State, dbo.Facilities.Hospital_Code, dbo.Patients.Medical_Record_Number, dbo.Patients.Last_Name,
2 dbo.Patients.Birth_Date, YEAR(dbo.Patients.Birth_Date) AS 'DOB Year', MONTH(dbo.Patients.Birth_Date) AS 'DOB Month', dbo.Patients.Sex, dbo.Hearing_Screen_Rollup.First_Date_Of_Service,
3 dbo.Hearing_Screen_Rollup.Right_Ear, dbo.Hearing_Screen_Rollup.Left_Ear,
4 dbo.Summary_Patient_Demographics_Section_1.Patient_Status, dbo.Patients.Birth_Location
5
6 FROM dbo.Hearing_Screen_Rollup WITH (NOLOCK)
7
8 RIGHT JOIN dbo.Summary_Patient_Demographics_Section_1
9 RIGHT JOIN dbo.Patients WITH (NOLOCK) ON dbo.Summary_Patient_Demographics_Section_1.Patient_ID = dbo.Patients.Patient_ID ON dbo.Hearing_Screen_Rollup.Patient_ID = dbo.Patients.Patient_ID
10 LEFT JOIN dbo.Facilities WITH (NOLOCK) ON dbo.Patients.Facility_ID = dbo.Facilities.Facility_ID
11
12 WHERE dbo.Summary_Patient_Demographics_Section_1.Patient_Status LIKE '%Not Screened%'
13 AND dbo.Summary_Patient_Demographics_Section_1.Patient_Status LIKE '%not screened%'
14 AND dbo.Hearing_Screen_Rollup.Right_Ear IS NOT NULL
15 AND dbo.Hearing_Screen_Rollup.Left_Ear IS NOT NULL
16 AND dbo.Patients.Active_Record_Flag = 'T'
17
18 AND
19
20 dbo.Patients.Birth_Date >= '1/1/2019'
21
```



Microsoft
SQL Server

```
Weekly Inpatient R..._NT\SA\lloyd (112)) ➔ X Stipend Report.sql...N_NT\SA\lloyd (111) South Carolina Qua..._NT\SA\lloyd (110) OP Birth Location..._N_NT\SA\lloyd (107) NICU Pending Repo..._NT\SA\lloyd
1 SELECT F.Hospital_Code, P.Last_Name, P.Birth_Date, P.Medical_Record_Number, HSR.Gender, P.Birth_Location, HSR.Right_Ear, HSR.Left_Ear, HSR.Last_Date_of_Service,
2 IIF((HSR.Right_Ear = 'refer' OR HSR.Left_Ear = 'refer'), 'refer', 'pass') AS 'Refer Indicator'
3
4 FROM dbo.Facilities F WITH (NOLOCK)
5 INNER JOIN dbo.Patients P WITH (NOLOCK) ON F.Facility_ID = P.Facility_ID
6 INNER JOIN dbo.Hearing_Screen_Rollup HSR ON P.Patient_ID = HSR.Patient_ID
7
8 GROUP BY F.Hospital_Code, P.Last_Name, P.Birth_Date, P.Medical_Record_Number, HSR.Gender, P.Birth_Location, HSR.Right_Ear, HSR.Left_Ear, HSR.Last_Date_of_Service
9
10 HAVING IIF((HSR.Right_Ear = 'refer' OR HSR.Left_Ear = 'refer'), 'refer', 'pass') = 'refer'
11
12 AND
13
14 YEAR(HSR.Last_Date_of_Service) = '2020'
```

SQL Server Management Studio (SSMS) – T-SQL



```
1 SELECT F.Facility_State, F.Hospital_Code, P.Last_Name, P.Birth_Location,
2 P.Sex, CONVERT(varchar(10), (P.Birth_Date), 101) as Date_of_Birth, P.Medical_Record_Number, HSR.Left_Ear, HSR.Right_Ear,
3 CONVERT(char(10),(HSR.First_Date_Of_Service),101) + substring(convert(varchar,HSR.First_Date_Of_Service,0),12,8)
4 as First_Date_Of_Service,
5 CONVERT(char(10),(HSR.Last_Date_Of_Service),101) + substring(convert(varchar,HSR.Last_Date_Of_Service,0),12,8)
6 as Last_Date_Of_Service
7
8
9 FROM
10 Facilities F WITH (NOLOCK)
11 Left Join Patients P WITH (NOLOCK)
12 On F.Facility_ID = P.Facility_ID
13 LEFT JOIN dbo.Hearing_Screen_Rollup HSR WITH (NOLOCK)
14 ON P.Patient_ID = HSR.Patient_ID
15
16 WHERE F.Hospital_Code in ('FRDH', 'FVIS', 'HOWC', 'JHOP', 'NHHH', 'PGHC', 'UMIN',
17 'TRVR', 'BAPE', 'PACR', 'WBHK', 'BRKY', 'CBHL', 'N327', 'N168', 'N330', 'AVWI', 'CORM', 'CCRM', 'FRSQ', 'SJME',
18 'HARH', 'MTGH')
19
20 AND HSR.First_Date_Of_Service >= '9/1/2020'
21 And HSR.First_Date_Of_Service < '10/1/2020';
22
23
24
```

```
1 SELECT DISTINCT
2 F.Facility_State,
3 F.Hospital_Code,
4 P.Last_Name,
5 P.Medical_Record_Number,
6 P.Birth_Location,
7 SD1.Patient_Status,
8 YEAR(P.Birth_Date) AS 'DOB Year',
9 MONTH(P.Birth_Date) AS 'DOB Month'
10
11 FROM
12 dbo.Patients P with (NOLOCK)
13 INNER JOIN dbo.Facilities F with (NOLOCK) ON P.Facility_ID = F.Facility_ID
14 LEFT JOIN dbo.Summary_Hearing_Screen SHS ON P.Patient_ID = SHS.Patient_ID
15 INNER JOIN dbo.Summary_Patient_Demographics_Section_1 SD1 with (NOLOCK)
16 ON P.Patient_ID = SD1.Patient_ID
17
18 WHERE 1 = CASE
19     WHEN SD1.Patient_Status = 'Screened Outpatient' AND P.Birth_Location <> 'OP' THEN 1
20     WHEN SD1.Patient_Status <> 'Screened Outpatient' AND P.Birth_Location = 'OP' THEN 1
21     ELSE 0
22 END
23 AND P.Birth_Date >= '1/1/2019'
24
```

Oracle SQL Developer – PL/SQL

The screenshot shows the Oracle SQL Developer interface with a query worksheet titled "Patron Signups By Hour.sql". The code retrieves distinct patron information and their sign-up details for a specific hour. The code uses joins between four views: vw_tal_dailyptnsum, vw_tal_dailypnrtg, vw_tal_ptnann, and vw_tal_dailypnall. It filters the results to a specific date range from April 24, 2021, at 00:00:00 to 23:59:59.

```
1 --PATRONS SIGNUPS PER HOUR
2 SELECT DISTINCT dp.ptnid, dp.firstname || ' ' || dp.lastname AS "NAME", dp.anndate, dp.anntypedesc, dp.issuedate, dp.signupterm
3   FROM ems.vw_tal_dailyptnsum dp, ems.vw_tal_dailypnrtg dr, ems.vw_tal_ptnann pa, ems.vw_tal_dailypnall da
4 WHERE dp.ptnid = da.ptnid(+)
5       AND dp.ptnid = dr.ptnid(+)
6       AND dp.anndate = dr.dateinserted(+)
7       AND dp.anndate
8 BETWEEN TO_DATE('04/24/2021 00:00:00', 'mm/dd/yyyy HH24:MI:SS')
9      and TO_DATE('04/24/2021 23:59:59', 'mm/dd/yyyy HH24:MI:SS')
10
```

ORACLE®

The screenshot shows the Oracle SQL Developer interface with a query worksheet titled "DAL Incentive Redemption.sql". The code retrieves distinct patron information and their club tier details. It joins between vw_tal_patron and vw_tal_ptncard tables. The results are filtered by PTNCARDNOTE containing a specific tier name and a last modification date of 09-16-2020 or later.

```
--CLUB TIER MATCH WITH PTNCARDNOTE
SELECT DISTINCT p.ptnid, p.firstname, p.lastname, pc.lastmoddate, pc.ptncardnote
  FROM ems.vw_tal_patron p, ems.vw_tal_ptncard pc
 WHERE p.ptnid = pc.ptnid
   AND PTNCARDNOTE like '%TIER%'
   AND pc.lastmoddate >= '09-16-2020';
```

Oracle SQL Developer – PL/SQL

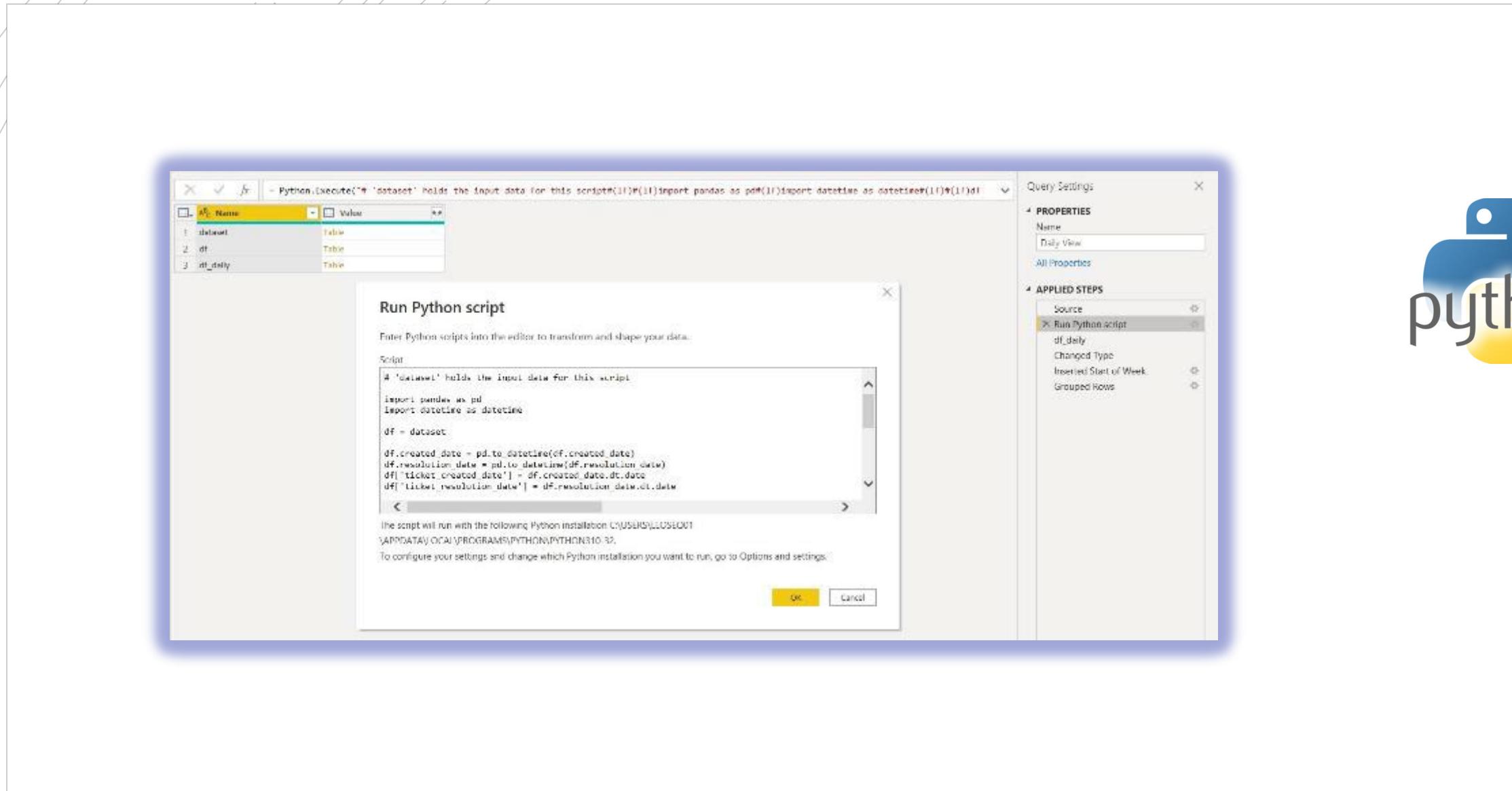
SQL Worksheet History

Worksheet Query Builder

```
--Player Classification Query
select --
ps.playerid,
pl.firstname || ' ' || pl.lastname AS "NAME",
count(*) totalvisits,
count(case when month in (11,12,01,02,03,04) then 1 else null end) winter_visits,
count(case when month in (05,06,07,08,09,10) then 1 else null end) summer_visits,
sum(slotcoinin) coinin,
sum(slottheowin) theo,
sum(freeplayused) freeplayused
from EMS.VW_GANALYTICS_PLAYERSUMMARY ps, EMS.VW_GANALYTICS_PLAYERLIST pl
where ps.playerid = pl.playerid
AND slotcoinin > 0
group by ps.playerid, pl.firstname, pl.lastname
```

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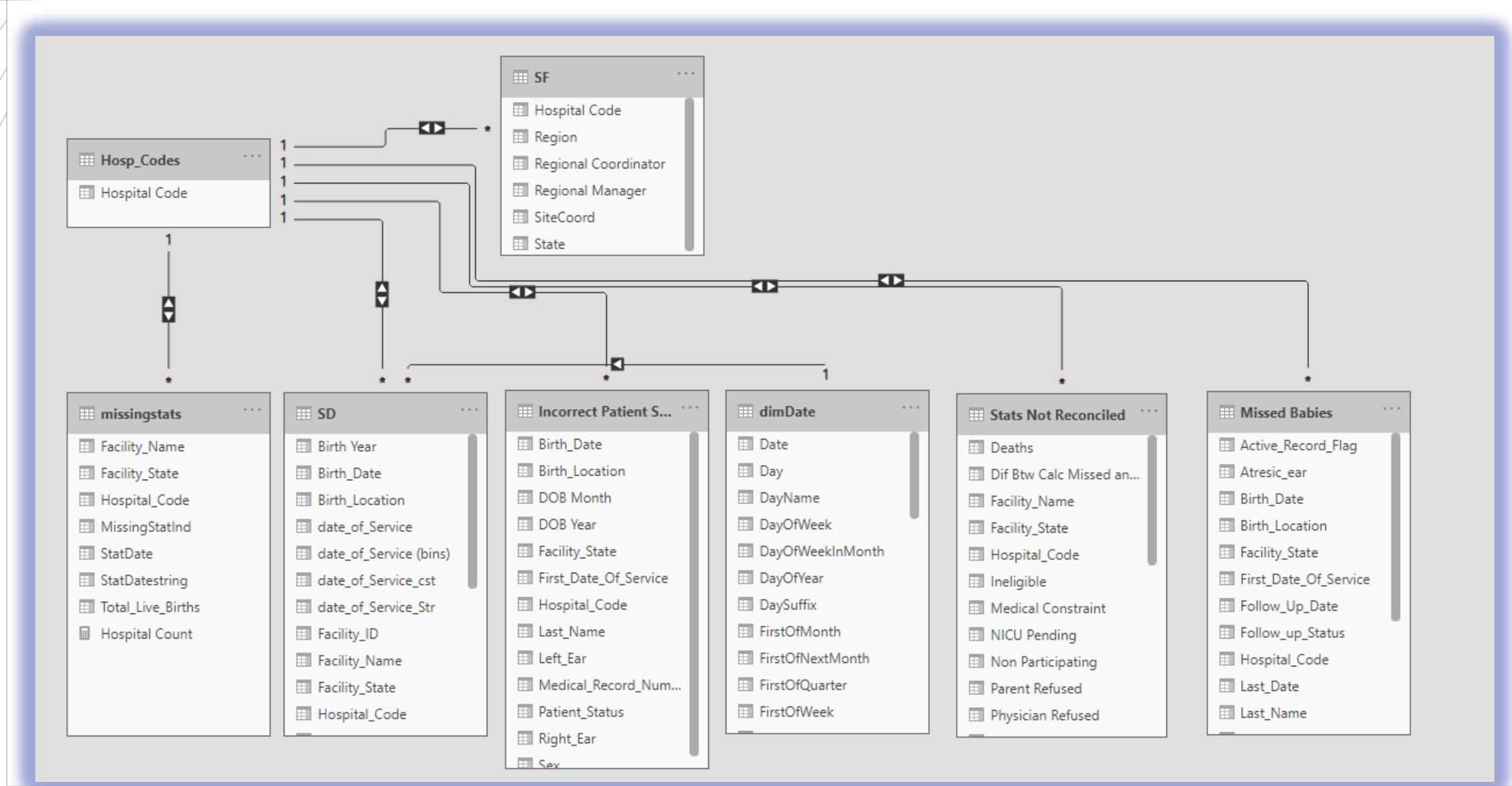
Data Sources – Python (Pandas DataFrame)



Data Modeling

Created & Developed by Sequoah Lloyd, MCP

Power BI Data Model (Entity Relationship Diagram)



SharePoint

Created & Developed by Sequoah Lloyd, MCP

✓ SharePoint Design/Web Parts

SharePoint Design/Web Parts

 **Business Analytics**

Home Business Operations Hub ▾ Clinical Operations Hub ▾ Regional Operations Hub ▾ Edit Not following Share

+ New ▾ Page details Analytics Published 1/10/2023 Edit



Welcome to the Analytics SharePoint site.



Power BI



VAX Portal



PHM Tool



Documentation

SharePoint Design/Web Parts

Business Analytics Home Business Operations Hub ▾ Clinical Operations Hub ▾ Regional Operations Hub ▾ Edit

+ New ▾ Page details Analytics Published 1/10/2023 Edit ↗

The Analytics team is a support engine for the enterprise. We are true data storytellers within the ██████████ Family of Companies.

We specialize in analytics, data science, data management, and application development.

We assist in creating reports, analysis, tools, cubes, outreach, etc.

Analytics Documentation Library See all

+ New ▾ Upload ▾ ... All Documents ▾ ⓘ

Name	Modified	Modified By
Analytics Product Delivery Process	January 17	Matthew Hoffma
BA Resource Accessibility	January 10	Sequoah Lloyd
Lift & Shift Documents	January 10	Sequoah Lloyd
Power BI Documents	January 10	Matthew Hoffma
SSRS Report Accessibility	January 9	Sequoah Lloyd

Business Analytics Resources

 Health Plans - Managed Care

 BA Report Request Form

 BA Reports

 Product Portfolio with Detail

 Queue Reporting - Accomplishments