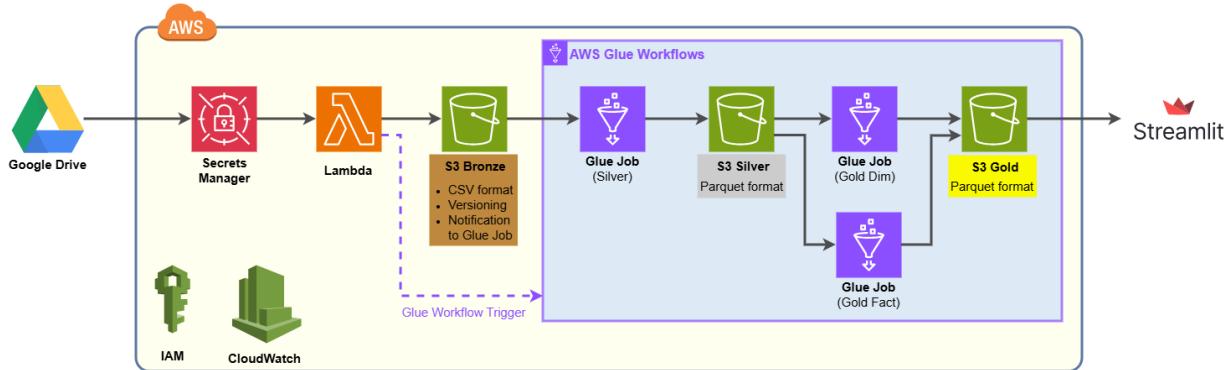


## Project 2: Healthcare Metrics Project

### Raw Source Data (Google Drive):

Master file: PBJ\_Daily\_Nurse\_Staffing\_Q2\_2024.csv

Additional file: NH\_ProviderInfo\_Oct2024.csv



### Bronze layer:

dim_providere	
Source: NH_ProviderInfo_Oct2024.csv	
#	Fields
1	CMS Certification Number (CCN) [PK]
2	Provider Name
3	Provider Type
4	State
5	City/Town
6	ZIP Code
7	Number of Certified Beds
8	Average Number of Residents per Day
9	Average Number of Residents per Day Footnote
10	Reported Nurse Aide Staffing Hours per Resident per Day
11	Reported LPN Staffing Hours per Resident per Day
12	Reported RN Staffing Hours per Resident per Day
13	Reported Licensed Staffing Hours per Resident per Day
14	Reported Total Nurse Staffing Hours per Resident per Day
15	Total number of nurse staff hours per resident per day on the weekend
16	Registered Nurse hours per resident per day on the weekend
17	Reported Physical Therapist Staffing Hours per Resident Per Day
18	Total nursing staff turnover
19	Total nursing staff turnover footnote
20	Registered Nurse turnover
21	Registered Nurse turnover footnote
22	Number of administrators who have left the nursing home
23	Administrator turnover footnote

fact_table	
Source: PBJ_Daily_Nurse_Staffing_Q2_2024.csv	
#	Fields
1	PROVNUM [PK]
2	PROVNAME
3	CITY
4	STATE
5	WorkDate [PK]
6	MDSensus
7	Hrs_RNDON
8	Hrs_RNDON_emp
9	Hrs_RNDON_ctr
10	Hrs_RNadmin
11	Hrs_RNadmin_emp
12	Hrs_RNadmin_ctr
13	Hrs_RN
14	Hrs_RN_emp
15	Hrs_RN_ctr
16	Hrs_LPNadmin
17	Hrs_LPNadmin_emp
18	Hrs_LPNadmin_ctr
19	Hrs_LPN
20	Hrs_LPN_emp
21	Hrs_LPN_ctr
22	Hrs_CNA
23	Hrs_CNA_emp
24	Hrs_CNA_ctr
25	Hrs_NAtrn
26	Hrs_NAtrn_emp
27	Hrs_NAtrn_ctr
28	Hrs_MedAide
29	Hrs_MedAide_emp
30	Hrs_MedAide_ctr

## Silver layer:

dim_table (Source: NH_ProviderInfo_Oct2024.csv)		fact_table (Source: PBJ_Daily_Nurse_Staffing_Q2_2024.csv)	
#	Fields	#	Fields
1	PROVIDER_NUM [PK]	1	PROVNUM [PK]
2	PROVIDER_NAME	2	PROVNAME
3	PROVIDER_TYPE	3	CITY
4	STATE	4	STATE
5	CITY_TOWN	5	WORKDATE [PK]
6	ZIP_CODE	6	MDSCENSUS
7	NUMBER_OF_CERTIFIED_BEDS	7	HRS_RNDON
8	AVERAGE_NUMBER_OF_RESIDENTS_PER_DAY	8	HRS_RNDON_EMP
9	AVERAGE_NUMBER_OF_RESIDENTS_PER_DAY_FOOTNOTE	9	HRS_RNDON_CTR
10	REPORTED_NURSE_AIDE_STAFFING_HOURS_PER_RESIDENT_PER_DAY	10	HRS_RNADMIN
11	REPORTED_LPN_STAFFING_HOURS_PER_RESIDENT_PER_DAY	11	HRS_RNADMIN_EMP
12	REPORTED_RN_STAFFING_HOURS_PER_RESIDENT_PER_DAY	12	HRS_RNADMIN_CTR
13	REPORTED_LICENSED_STAFFING_HOURS_PER_RESIDENT_PER_DAY	13	HRS_RN
14	REPORTED_TOTAL_NURSE_STAFFING_HOURS_PER_RESIDENT_PER_DAY	14	HRS_RN_EMP
15	TOTAL_NUMBER_OF_NURSE_STAFF_HOURS_PER_RESIDENT_PER_DAY_ON_THE_WEEKEND	15	HRS_RN_CTR
16	REGISTERED_NURSE_HOURS_PER_RESIDENT_PER_DAY_ON_THE_WEEKEND	16	HRS_LPNADMIN
17	REPORTED_PHYSICAL_THERAPIST_STAFFING_HOURS_PER_RESIDENT_PER_DAY	17	HRS_LPNADMIN_EMP
18	TOTAL_NURSING_STAFF_TURNOVER	18	HRS_LPNADMIN_CTR
19	TOTAL_NURSING_STAFF_TURNOVER_FOOTNOTE	19	HRS_LPN
20	REGISTERED_NURSE_TURNOVER	20	HRS_LPN_EMP
21	REGISTERED_NURSE_TURNOVER_FOOTNOTE	21	HRS_LPN_CTR
22	NUMBER_OF_ADMINISTRATORS_WHO_HAVE_LEFT_THE_NURSING_HOME	22	HRS_CNA
23	ADMINISTRATOR_TURNOVER_FOOTNOTE	23	HRS_CNA_EMP

## Gold layer:

dim_bed		dim_nurse	
Columns	Type	Columns	Type
PROVIDER_NUM [PK]	object	PROVIDER_NUM [PK]	object
PROVIDER_NAME	object	PROVIDER_NAME	object
PROVIDER_TYPE	object	PROVIDER_TYPE	object
STATE	object	STATE	object
NUMBER_OF_CERTIFIED_BEDS	int32	REPORTED_NURSE_AIDE_STAFFING_HOURS_PER_RESIDENT_PER_DAY	float64
AVERAGE_NUMBER_OF_RESIDENTS_PER_DAY	float64	REPORTED_LPN_STAFFING_HOURS_PER_RESIDENT_PER_DAY	float64
AVERAGE_NUMBER_OF_RESIDENTS_PER_DAY_FOOTNOTE	int32	REPORTED_RN_STAFFING_HOURS_PER_RESIDENT_PER_DAY	float64
AVERAGE_NUMBER_OF_RESIDENTS_PER_DAY_TOTAL	float64	REPORTED_TOTAL_NURSE_STAFFING_HOURS_PER_RESIDENT_PER_DAY	float64
BED_UTILIZATION_RATE	float64	TOTAL_NUMBER_OF_NURSE_STAFF_HOURS_PER_RESIDENT_PER_DAY_ON_THE_WEEKEND	float64
		REGISTERED_NURSE_HOURS_PER_RESIDENT_PER_DAY_ON_THE_WEEKEND	float64
		NURSE_AIDE_TO_PATIENT_RATE	float64
		LPN_TO_PATIENT_RATE	float64
		RN_TO_PATIENT_RATE	float64
		NURSE_TO_PATIENT_RATE	float64

fact_staff	
Columns	Type
PROVNUM [PK]	object
PROVNAME	object
CITY	object
STATE	object
WORKDATE [PK]	int32
MDSCENSUS	int32
HRS_RNDON_EMP	float64
HRS_RNDON_CTR	float64
HRS_RNADMIN_EMP	float64
HRS_RNADMIN_CTR	float64
HRS_RN_EMP	float64
HRS_RN_CTR	float64
HRS_LPNADMIN_EMP	float64
HRS_LPNADMIN_CTR	float64
HRS_LPN_EMP	float64
HRS_LPN_CTR	float64
HRS_CNA_EMP	float64
HRS_CNA_CTR	float64
HRS_NATRN_EMP	float64
HRS_NATRN_CTR	float64
HRS_MEDAIDE_EMP	float64
HRS_MEDAIDE_CTR	float64
STAFF_RATIO_RNDON	float64
STAFF_RATIO_RNADMIN	float64
STAFF_RATIO_RN	float64
STAFF_RATIO_LPNADMIN	float64
STAFF_RATIO_LPN	float64
STAFF_RATIO_CNA	float64
STAFF_RATIO_NATRN	float64
STAFF_RATIO_MEDAIDE	float64