-- icnarc\_\_identify\_v2\_and\_v3\_columns

-- It appears as though the ICNARC data contains two different admission versions because different sets of columns are used depending on if 'adm\_is\_ver\_2\_adm' is Yes/No.

-- Given that ICNARC is on Version 3 and when adm\_is\_ver\_2\_adm is 'No', the populated columns match the Version 3 documentation, I think there are simply two versions of admission software, where v2 columns has been replaced.

-- this script figures out which columns are used for version 2 and version 3 of the icnarc icu admission system

-- I then downloaded the result into a csv and did some other calculations in excel to help with the data dictionary

-- count how many records there are for each admission version

SELECT

adm\_is\_ver\_2\_adm,

COUNT(\*) as records,

(COUNT(\*) / (SUM(COUNT(\*)) OVER())) \* 100 as percentage

FROM `yhcr-prd-phm-bia-core.CY\_MYSPACE\_EmW.icnarc\_06a\_data`

GROUP BY adm\_is\_ver\_2\_adm;

-- what are the columns used by icnarc v2 vs v3?

-- from https://dabblingwithdata.wordpress.com/2021/05/17/a-quick-way-to-count-the-number-of-null-values-in-each-field-of-a-bigquery-table/

-- version 2 admissions

CREATE TABLE `yhcr-prd-phm-bia-core.CY\_MYSPACE\_EmW.icnarc\_temp\_v2\_admissions`

AS

SELECT

column\_name,

COUNT(1) AS v2\_nulls\_count

FROM `yhcr-prd-phm-bia-core.CY\_MYSPACE\_EmW.icnarc\_06a\_data` icnarc\_table,

UNNEST(REGEXP\_EXTRACT\_ALL(TO\_JSON\_STRING(icnarc\_table), r'"(\w+)":null')) column\_name

WHERE adm\_is\_ver\_2\_adm = "Yes"

GROUP BY column\_name

ORDER BY column\_name;

-- version 3 admissions

CREATE TABLE `yhcr-prd-phm-bia-core.CY\_MYSPACE\_EmW.icnarc\_temp\_v3\_admissions`

AS

SELECT

column\_name,

COUNT(1) AS v3\_nulls\_count

FROM `yhcr-prd-phm-bia-core.CY\_MYSPACE\_EmW.icnarc\_06a\_data` icnarc\_table,

UNNEST(REGEXP\_EXTRACT\_ALL(TO\_JSON\_STRING(icnarc\_table), r'"(\w+)":null')) column\_name

WHERE adm\_is\_ver\_2\_adm = "No"

GROUP BY column\_name

ORDER BY column\_name;

-- join these tables

SELECT

v2.\*,

v3.\*

FROM `yhcr-prd-phm-bia-core.CY\_MYSPACE\_EmW.icnarc\_temp\_v2\_admissions` v2

FULL JOIN `yhcr-prd-phm-bia-core.CY\_MYSPACE\_EmW.icnarc\_temp\_v3\_admissions` v3

ON v2.column\_name = v3.column\_name;

DROP TABLE `yhcr-prd-phm-bia-core.CY\_MYSPACE\_EmW.icnarc\_temp\_v2\_admissions`

DROP TABLE `yhcr-prd-phm-bia-core.CY\_MYSPACE\_EmW.icnarc\_temp\_v3\_admissions`