-- create a table join admission, patient table, and total\_LOS

SELECT -- join 2 tables admission and total\_LOS to analyze the mortality, lenght of stay.

ad.subject\_id,

ad.hadm\_id,

ad.admittime,

ad.dischtime,

ad.deathtime,

ad.admission\_type,

ad.admission\_location,

ad.discharge\_location,

ad.religion,

ad.marital\_status,

ad.ethnicity,ad.diagnosis,

ad.hospital\_expire\_flag,

trans.total\_LOS,

pt.gender,

pt.dob,

diag.icd9\_code,

diag.short\_title as short\_diagnosis,

diag.long\_title as long\_diagnosis

FROM [dbo].[ADMISSIONS] as ad

LEFT JOIN (SELECT subject\_id,hadm\_id,sum(CAST( los as float)) AS total\_LOS

FROM [dbo].[TRANSFERS]

GROUP BY subject\_id,hadm\_id) as trans

ON ad.subject\_id = trans.subject\_id

AND ad.hadm\_id=trans.hadm\_id

JOIN [dbo].[PATIENTS] as pt

ON pt.subject\_id = ad.subject\_id

JOIN (SELECT dia.subject\_id,dia.hadm\_id,dia.icd9\_code,d.short\_title,d.long\_title

FROM [dbo].[DIAGNOSES\_ICD] as dia

JOIN [dbo].[D\_ICD\_DIAGNOSES] as d

ON dia.icd9\_code=d.icd9\_code

where dia.seq\_num=1) AS diag

ON diag.subject\_id =ad.subject\_id

AND diag.hadm\_id=ad.hadm\_id

A screenshot of a computer

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-- create a table with subject\_id and ICU type

WITH t1 as

(SELECT distinct subject\_id,last\_careunit,intime, rank() over (partition by subject\_id order by intime DESC) AS rank\_num

FROM [dbo].[ICUSTAYS])

SELECT subject\_id,last\_careunit

FROM t1

WHERE rank\_num = 1

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-- create a table of patient with mechanical intervention

SELECT distinct subject\_id,ordercategoryname

FROM [dbo].[PROCEDUREEVENTS\_MV]

WHERE ordercategoryname like '%Venti%'

OR ordercategoryname like '%venti%'

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