**Raw codes**

select d.subject\_id, d.hadm\_id, d.icustay\_id, d.gender, d.admission\_age, d.admission\_type, ad.primary\_diagnosis, d.ethnicity, d.los\_hospital, d.hospital\_expire\_flag, d.los\_icu, e.icustay\_expire\_flag, sur.survivingstatus\_90d, sur.survivingdate\_90d, sur.survivingstatus\_28d, survivingdate\_28d, e.oasis, h.sofa, spa.sapsii, o.explicit\_sepsis, mcd.vent AS vent\_firstday, kfc.rrt AS rrt\_firstday, abscore.elixhauser\_sid30, ab.congestive\_heart\_failure, ab.cardiac\_arrhythmias, ab.valvular\_disease, ab.pulmonary\_circulation, ab.peripheral\_vascular, ab.hypertension, ab.paralysis, ab.other\_neurological, ab.chronic\_pulmonary, ab.diabetes\_uncomplicated, ab.diabetes\_complicated, ab.hypothyroidism, ab.renal\_failure, ab.liver\_disease, ab.peptic\_ulcer, ab.aids, ab.lymphoma, ab.metastatic\_cancer, ab.solid\_tumor, ab.rheumatoid\_arthritis, ab.coagulopathy, ab.obesity, ab.weight\_loss, ab.fluid\_electrolyte, ab.blood\_loss\_anemia, ab.deficiency\_anemias, ab.alcohol\_abuse, ab.drug\_abuse, ab.psychoses, ab.depression

from "icustay\_detail" As d

left join "oasis" AS e on d.icustay\_id=e.icustay\_id

left join "sofa" AS h on d.icustay\_id=h.icustay\_id

left join "angus\_sepsis" AS o on d.hadm\_id=o.hadm\_id

left join "elixhauser\_ahrq\_no\_drg\_all\_icd" AS ab on d.hadm\_id=ab.hadm\_id

left join "elixhauser\_ahrq\_score" AS abscore on d.hadm\_id=abscore.hadm\_id

left join (select ac.hadm\_id, ac.icd9\_code AS primary\_diagnosis from diagnoses\_icd AS ac where ac.seq\_num=1) AS ad on d.hadm\_id=ad.hadm\_id

left join "rrtfirstday" AS kfc on d.icustay\_id=kfc.icustay\_id

left join "ventfirstday" AS mcd on d.icustay\_id=mcd.icustay\_id

left join "sapsii" AS spa on d.icustay\_id=spa.icustay\_id

left join "surviving" AS sur on d.icustay\_id=sur.icustay\_id

where d.icustay\_seq=1 AND d.hospstay\_seq=1

AND d.admission\_age>=18

AND h.sofa>=2 AND o.infection=1

AND d.los\_hospital>=d.los\_icu

AND d.los\_icu>=1

order by d.subject\_id, d.hadm\_id, d.icustay\_id