**Problem Set 4: Advanced SQL II**

**Deliverable:** Submit your CREATE VIEW statement. Ensure that your view runs without errors before submission.

**CREATE VIEW patient\_illness\_start\_dates AS**

**WITH diabetes AS (**

**SELECT person\_id, MIN(condition\_start\_date) AS Min\_Diabetes\_Date**

**FROM condition\_occurrence**

**WHERE condition\_concept\_id IN (43531019,43531016,201254,4034962,194700,443412,4322638,45757079,37204277,45757674,43531007,4193704,4102018,4192852,37018765,43531012,765478,4063043,4235410,4062687,37204818,4084643,4048202,44793114,43531645,4240589,193323,43531009,44787902,36713275,43531643,4326434,45766050,37396524,4136889,43531008,4096671,201826,37110041,4131907,40482883,192691,36684827,44793113,4063042,4099334,4006979,43531010,4099741,4129519,43531644,46274096,4144583,43531641,4024659,43531018,36717215,4304377,4062685,4096042,4129524,4327944,4129516,4166381,44792134,37116960,4212631,4245270,4263902,4079850,4178452,4058243,43531640,45766052,4252384,4008576,42537681,4030061,37311329,43531013,36715051,4143529,4047906,4178790,45757789,45757129,43531015,4145827,36685758,4230254,4096670,36716258,4237068,43531014,4062686,201820,443012,43531011,4034960,43531006,43531020,45757474,4034963,4130162,42535539,195771,4140808,36715417,4099653,37204232,4129378,45766051,37116379,43531017,4130164,4099215,4099651,4129525,4030066,45757077,45757124,43531642,4202383,4099214)**

**GROUP BY person\_id**

**),**

**asthma AS (**

**SELECT person\_id, MIN(condition\_start\_date) AS Min\_Asthma\_Date**

**FROM condition\_occurrence**

**WHERE condition\_concept\_id IN (317009,45768910,4125022,44810117,45769352,3661412,37109103,4155469,4232595,4142738,4155470,4022592,35609847,257583,42539549,42536649,37108581,4244339,45757063,45768963,45769438,4312524,45772073,4250128,36684335,45769441,256448,37310241,35609846,46269784,4051466,46274062,46269767,45771045,4245292,42538744,46269801,4145356,257581,46270029,46273635,252658,4143474,4057952,46269771,37108580,4075237,4212099,4155468,46269802,4138760,46273487,4145497,4120261,46269777,4309833,45769350,4119298,42535716,4225554,45769351,46274124,46269770,4080516,45768965,46270322,46273452,764949,4143828,37208352,4211530,4233784,313236,42536208,40481763,443801,45768911,46269776,45769442,45769443,4217558,42536207,4141978,46270082,46270030,46273462,46274059,761844,764677,4152913,46273454,4191479,45772937,312950,36684328,45768912,45766727,4245676,4146581,46270028,40483397,37116845,4301938,4206340,4110051,45766728,4123253,4271333,45773005,43530693,45768964,37206717,4119300,43530745,4225553,46269785)**

**GROUP BY person\_id**

**),**

**covid AS (**

**SELECT person\_id, MIN(condition\_start\_date) AS Min\_COVID\_Date**

**FROM condition\_occurrence**

**WHERE condition\_concept\_id IN (3661631,37310254,756039,37310284,3656667,3661405,3661748,3661632,3656668,3661408,3663281,37310283,3661885,3661406,37310287,3655977,756031,3662381,37310286,3655975,3656669,3655976,37311061)**

**GROUP BY person\_id**

**),**

**Gender AS (**

**SELECT concept\_id AS gender\_concept\_id, concept\_name AS gender\_name**

**FROM concept**

**WHERE domain\_id = 'Gender' ),**

**Race AS (**

**SELECT concept\_id AS race\_concept\_id, concept\_name AS race\_name**

**FROM concept**

**WHERE domain\_id = 'Race' )**

**SELECT p.person\_id, g.gender\_name AS Gender, r.race\_name AS Race, d.Min\_Diabetes\_Date, a.Min\_Asthma\_Date, c.Min\_COVID\_Date**

**FROM person p**

**LEFT JOIN Gender g ON p.gender\_concept\_id = g.gender\_concept\_id**

**LEFT JOIN Race r ON p.race\_concept\_id = r.race\_concept\_id**

**LEFT JOIN diabetes d ON p.person\_id = d.person\_id**

**LEFT JOIN asthma a ON p.person\_id = a.person\_id**

**LEFT JOIN covid c ON p.person\_id = c.person\_id;**