**R2D2 Query 5** <https://github.com/DBMI/R2D2-Queries/tree/master/Question_0005>

**Date: 08-26-2020**

**Revision dates:**

|  |  |
| --- | --- |
| **Date** | **Description of revised** |
|  |  |

**Project Purpose**: pSCANNER to create a rapid response system to answer COVID19 research questions. Researchers and Clinicians can submit a question online and review previously asked and answered questions from a public website [https<https://covid19questions.org/]>.

Funded by Gordon and Betty Moore Foundation

**Final summary:**

* Question 5 is like question 1, there weren’t any changes we needed to do.

Question [06-07-2020]: What is the incidence of COVID-19 in Hispanic vs. Non-Hispanic ethnicity?

### **Revised Question [08-11-2020]**: Among adults hospitalized with COVID-19, how many had a Hispanic or LatinX ethnicity?

**Old COVID definition: <08-14-2020 R2D2 Tech WG**

* Initial cohort entry date: 2020-12-01
* Initial cohort entry population: IP, EI (inpatients)
* >18 years of age
* Covid definition
  + 21-day lookback
  + SARS-COVID2 measurement (antibody) and diagnostic tests were included
    - We had no records of measurement tests, so it didn’t make a difference anyway

**Updated COVID definition: 08-14-2020 R2D2 Tech WG**

* Please visit this website for full details on how COVID was defined: [https://github.com/DBMI/R2D2-Queries/tree/master/ElectronicPhenotype/COVID-19#r2d2-cohort-definition-305](https://github.com/DBMI/R2D2-Queries/tree/master/ElectronicPhenotype/COVID-19" \l "r2d2-cohort-definition-305)

**Updates and Issues**:

* [06-25-2020] Question 5 is like question 1, there weren’t any changes we needed to do.
* [06-25-2020] uploaded results – see below in the document
* [07-14-2020] discuss new covid definition
* [08-14-2020] new covid definition query released
* [08-14-2020] uploaded results - [HERE](https://teams.microsoft.com/l/file/8CEFA9B4-D5FA-42D9-92D1-E7E3A6C34091?tenantId=563337ca-a517-421a-aae0-1aa5b414fd7f&fileType=xlsx&objectUrl=https%3A%2F%2Folucdenver.sharepoint.com%2Fsites%2FR2D2CP3OCOVIDRapidResponse%2FShared%20Documents%2FR2D2%20Q5%20Hispanic%20vs.%20Non-Hispanic%20ethnicity%2F_resultsQ05_BQ_v3.1_08-14-2020.xlsx&baseUrl=https%3A%2F%2Folucdenver.sharepoint.com%2Fsites%2FR2D2CP3OCOVIDRapidResponse&serviceName=teams&threadId=19:ae4187cdceff40a49064478f523a3346@thread.tacv2&groupId=85ef05b8-ba19-4553-ad93-f162e5908895)
* **[08-15-2020] submitted sql and results to Github.**

**Concept ID/set and code changes**:

* We used our set of ICU department instead of UCSD, [here](https://teams.microsoft.com/l/file/D2E5468C-331C-447B-85DC-4671A3939E23?tenantId=563337ca-a517-421a-aae0-1aa5b414fd7f&fileType=xlsx&objectUrl=https%3A%2F%2Folucdenver.sharepoint.com%2Fsites%2FR2D2CP3OCOVIDRapidResponse%2FShared%20Documents%2FR2D2%20Question%202%2FR2D2%20-%20Q2_Care_Site_id_results-20200605-145612.xlsx&baseUrl=https%3A%2F%2Folucdenver.sharepoint.com%2Fsites%2FR2D2CP3OCOVIDRapidResponse&serviceName=teams&threadId=19:75310d64b326472eb25b89473cd5f114@thread.tacv2&groupId=85ef05b8-ba19-4553-ad93-f162e5908895)
* [06-11-2020] Cohort definition concept ID change in SQL code, #15057 [Eureka]
* [08-14-2020] Used the new covid defined: [https://github.com/DBMI/R2D2-Queries/tree/master/ElectronicPhenotype/COVID-19#r2d2-cohort-definition-305](https://github.com/DBMI/R2D2-Queries/tree/master/ElectronicPhenotype/COVID-19" \l "r2d2-cohort-definition-305)

**Results files**:

|  |  |  |
| --- | --- | --- |
| **Date** | **Link to file** | **Changes** |
| 06-25-2020 | - | Testing to see counts - shown in the document below |
| 08-14-2020 | [CLICK HERE](https://teams.microsoft.com/l/file/8CEFA9B4-D5FA-42D9-92D1-E7E3A6C34091?tenantId=563337ca-a517-421a-aae0-1aa5b414fd7f&fileType=xlsx&objectUrl=https%3A%2F%2Folucdenver.sharepoint.com%2Fsites%2FR2D2CP3OCOVIDRapidResponse%2FShared%20Documents%2FR2D2%20Q5%20Hispanic%20vs.%20Non-Hispanic%20ethnicity%2F_resultsQ05_BQ_v3.1_08-14-2020.xlsx&baseUrl=https%3A%2F%2Folucdenver.sharepoint.com%2Fsites%2FR2D2CP3OCOVIDRapidResponse&serviceName=teams&threadId=19:ae4187cdceff40a49064478f523a3346@thread.tacv2&groupId=85ef05b8-ba19-4553-ad93-f162e5908895) | New covid definition update |

**SQL files**:

|  |  |  |
| --- | --- | --- |
| **Date** | **Link to file** | **Changes** |
| 06-15-2020 | [CLICK HERE](https://olucdenver.sharepoint.com/sites/R2D2CP3OCOVIDRapidResponse/Shared%20Documents/R2D2%20Q5%20Hispanic%20vs.%20Non-Hispanic%20ethnicity/archived/q5_BQ_2020-06-15.sql) | First translation of the code |
| 06-25-2020 | [CLICK HERE](https://olucdenver.sharepoint.com/sites/R2D2CP3OCOVIDRapidResponse/Shared%20Documents/R2D2%20Q5%20Hispanic%20vs.%20Non-Hispanic%20ethnicity/archived/q5_BQ_DIedit_2020-06-25.txt) | Diana modified code, cohort definition |
| 08-14-2020 | [CLICK HERE](https://olucdenver.sharepoint.com/sites/R2D2CP3OCOVIDRapidResponse/Shared%20Documents/R2D2%20Q5%20Hispanic%20vs.%20Non-Hispanic%20ethnicity/_revisedQ05_BQ_v3.1_08-14-2020.sql) | Update for new covid definition |

Results: Ran 06-25-2020

|  |  |
| --- | --- |
| Site number | Site07 |
| Hispanic or Latino | 545 |
| No-Hispanic or Latino | 844 |
| No Matching concept | 19 |

CU CODE MARK UP - **(UPDATED 08-26-2020) CODE IS OUTDATED, THE MOST RECENT CODE IS IN OUR FILES**

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|  |
| --- |
| Project: R2D2 |
| Create date: 06/01/2020 |
| Query: Proportion of hospitalized COVID positive patients Hispanic vs. Non-Hispanic ethnicity? |
|  |
| /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| Site specific customization required (Please substitute local codes for |
| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/ |
| **The code starts out by creating a temp table and selecting COVID+ patients into this temp table called covid\_pos.** |
|  |
| -- COVID positive patients |
| if object\_id('tempdb.dbo.#covid\_pos') is not null drop table #covid\_pos |
| select subject\_id [person\_id], cohort\_start\_date, cohort\_end\_date |
| into #covid\_pos |
| from omop\_v5.OMOP5.cohort |
| where cohort\_definition\_id = 100200 ---UCSD COVID-19 CONFIRMED POSITIVE REGISTRY  **For our cohort definition, we used the ATLAS cohort definition of [COVID ID2 v1- Persons hospitalized with COVID-19 narrow, w/ no prior observation required cohort #108, [https://atlas.ohdsi.org/#/cohortdefinition/108](https://atlas.ohdsi.org/" \l "/cohortdefinition/108" \t "_blank)] to identify our hospitalized  covid+ patients.  The cohort was defined as COVID+ 21 days prior to admission throughout the end of admission (excludes the inclusions).  To look at how the cohort was defined, click here -> https://ohdsi-atlas.healthdatacompass.org/#/cohortdefinition/15057. (can access through Eureka)**      **[DI] Persons hospitalized with COVID-19, narrow, w/ no prior observation,**  **cohort #108 R2D2 Q1,2**    **Initial Event Cohort, People having any of the following:**   * **a visit occurrence of IP, EI visits, occurrence start is after 2019-12-01 with continuous observation of at least 0 days prior and 0 days after event index date, and limit initial events to: all events per person.**     **For people matching the Primary Events, include:**  **Having any of the following criteria:**   * **at least 1 occurrences of a condition occurrence of COVID-19 (including asymptomatic) where event starts between 21 days Before and all days After index start date and event starts between all days Before and 0 days After index end date or at least 1 occurrences of a condition occurrence of Any Condition** * **Condition Source Concept is COVID-19 source codes where event starts between 21 days Before and all days After index start date and event starts between all days Before and 0 days After index end date** * **or at least 1 occurrences of a measurement of COVID-19 specific testing (pre-coordinated Measurements) - Positive, where event starts between 21 days Before and all days After index start date and event starts between all days Before and 0 days After index end date** * **or at least 1 occurrences of a measurement of COVID-19 specific testing (pre-coordinated Measurements excluded), value as concept is any of: Detected, Detected, Positive, Present, Present, Positive, where event starts between 21 days Before and all days After index start date and event starts between all days Before and 0 days After index end date** * **or at least 1 occurrences of an observation of COVID-19 specific testing (pre-coordinated Measurements excluded), value as concept is any of: Detected, Detected, Positive, Positive, Present, Present, where event starts between 21 days Before and all days After index start date and event starts between all days Before and 0 days After index end date** * **or at least 1 occurrences of an observation of Any Observation, where event starts between 21 days Before and all days After index start date and event starts between all days Before and 0 days After index end date**   **Limit cohort of initial events to: all events per person.**    **Inclusion Rules**   * **Inclusion Criteria #1: age >=18** * **Having all of the following criteria:** * **with the following event criteria: with age >= 18**   **Limit qualifying cohort to: all events per person.**    **We identified hospitalized and COVID+ (21 days prior to admission throughout the end of admission) patients through the selection of patients with unique subject\_id (no duplicates). We used the cohort table, which are primary building blocks to define the features of the cohort [cohort\_definition\_id] from the achilles\_result database. We counted the total number of patients by subject id that fit the criteria of hospitalized and COVID+ and the total records for patients who are hospitalized and/or COVID+.**  **SELECT COUNT (DISTINCT co.subject\_id) total\_people, COUNT(\*) total\_records**  **FROM achilles\_results.cohort co**  **WHERE co.cohort\_definition\_id = 15057**    **Re-Ran 06-25-2020 (not submitted to github)**   |  |  | | --- | --- | | **Total people** | **Total Records** | | **1495** | **1557** | |
|  |
|  |
| /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
|  |
| Section 2: COVID +ve with hospital admission (OHDSI definition) |
|  |
| Target Cohort #1: Patient cohorts in the hospitalised with COVID-19 cohort Diana: |
| 1) have a hospitalisation (index event) after December 1st 2019, |
| 2) with a record of COVID-19 in the 3 weeks prior and up to end of hospitalisation, |
| 3) be aged 18 years or greater at time of the index visit, |
|  |
| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/ |
| **The code starts out by creating a temp table and creating the covid+ with hospital admission (OHDSI definition) after 12-01-2019, record of covid+ 21 days prior to and up to end of hospitalizations, and over the age of 18 years or older. We Diana remove covid associated hospitalization 6 mo prior to the index event and length of stay of at least 4 hours.** |
| -- 1, 2 and 3 |
| if object\_id('tempdb.dbo.#covid\_hsp') is not null drop table #covid\_hsp |
| select a.\*, d.death\_datetime |
| , case when d.death\_datetime between a.visit\_start\_datetime and a.visit\_end\_datetime |
| or discharge\_to\_concept\_id = 44814686 -- Deceased |
| then 1 else 0 end as [Hospital\_mortality] |
| , ROW\_NUMBER() over (partition by a.person\_id order by days\_bet\_COVID\_tst\_hosp asc) rownum |
| into #covid\_hsp |
| from ( |
| select distinct vo.visit\_occurrence\_id, vo.person\_id, vo.visit\_concept\_id, vo.visit\_start\_datetime, vo.visit\_end\_datetime |
| , vo.discharge\_to\_concept\_id, vo.discharge\_to\_source\_value |
| , datediff(dd, p.birth\_datetime, GETDATE())/365.0 [Current\_age], cp.cohort\_start\_date |
| , datediff(dd, cp.cohort\_start\_date, vo.visit\_start\_datetime) days\_bet\_COVID\_tst\_hosp |
| from #covid\_pos cp |
| join omop5.visit\_occurrence vo on cp.person\_id = vo.person\_id |
| join omop5.person p on p.person\_id = vo.person\_id |
| where vo.visit\_start\_datetime >= '2019-12-01' |
| and vo.visit\_concept\_id in (9201, 262) -- IP, EI visits |
| and datediff(dd, p.birth\_datetime, GETDATE())/365.0 >= 18.0 --CORDS doesn't have birthdate info |
| and (datediff(dd, cp.cohort\_start\_date, vo.visit\_start\_datetime) between 0 and 21 -- +ve COVID status within 21 days before admission |
| or cp.cohort\_start\_date between vo.visit\_start\_datetime and vo.visit\_end\_datetime |
| ) |
| ) a |
| left join (select person\_id, min(death\_datetime) death\_datetime from OMOP\_v5.OMOP5.death |
| group by person\_id ) d on d.person\_id = a.person\_id  --4) Length of stay should be at least 1 dayDELETE FROM temp\_covid\_scratch.u68u4v2ncovid\_hsp hspWHERE datetime\_diff(visit\_end\_datetime, visit\_start\_datetime, HOUR) <= 24; |
|  |
|  |
| /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| Section 3: |
| Ethnicity breakdown |
|  |
| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/ |
| **This creates counts and breakdown of the ethnicity and covid\_hsp.** |
| select p.ethnicity\_concept\_id, c.concept\_name, count(distinct p.person\_id) Patient\_counts |
| from #covid\_hsp hsp |
| join omop5.person p on hsp.person\_id = p.person\_id |
| left join vocab5.CONCEPT c on c.concept\_id = p.ethnicity\_concept\_id |
| group by p.ethnicity\_concept\_id, c.concept\_name |
| order by 1 |
|  |

### Results

To the [results](https://github.com/DBMI/R2D2-Queries/blob/master/Question_0005/results) directory, please upload .csv file of 2 rows and 3 columns in the following format with a header (one .csv file per institution named as SiteXX\_results.csv)

* Column 1: Site number in the format of (Site01, Site02, ... , Site12)
* Column 2: Ethnicity ('Hispanic or Latino', 'Not Hispanic or Latino', 'Unknown')
* Column 3: Number of hospitalized patients related to COVID-19

See the [example](https://github.com/DBMI/R2D2-Queries/blob/master/Question_0005/results/template_results.csv) result file.

UCSD Original Code (below )– DO NOT EDIT

|  |
| --- |
| Project: R2D2 |
| Create date: 06/01/2020 |
| Query: Proportion of hospitalized COVID positive patients Hispanic vs. Non-Hispanic ethnicity? |
|  |
| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/ |
|  |
| /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| Site specific customization required (Please substitute local codes for |
| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/ |
|  |
| -- COVID positive patients |
| if object\_id('tempdb.dbo.#covid\_pos') is not null drop table #covid\_pos |
| select subject\_id [person\_id], cohort\_start\_date, cohort\_end\_date |
| into #covid\_pos |
| from omop\_v5.OMOP5.cohort |
| where cohort\_definition\_id = 100200 ---UCSD COVID-19 CONFIRMED POSITIVE REGISTRY |
|  |
|  |
| /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
|  |
| Section 2: COVID +ve with hospital admission (OHDSI definition) |
|  |
| Target Cohort #1: Patient cohorts in the hospitalised with COVID-19 cohort Diana: |
| 1) have a hospitalisation (index event) after December 1st 2019, |
| 2) with a record of COVID-19 in the 3 weeks prior and up to end of hospitalisation, |
| 3) be aged 18 years or greater at time of the index visit, |
| 4) have no COVID-19 associated hospitalisation in the six months prior to the index event |
| 5) Length of stay is atleast 4 hours |
|  |
| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/ |
|  |
| -- 1, 2 and 3 |
| if object\_id('tempdb.dbo.#covid\_hsp') is not null drop table #covid\_hsp |
| select a.\*, d.death\_datetime |
| , case when d.death\_datetime between a.visit\_start\_datetime and a.visit\_end\_datetime |
| or discharge\_to\_concept\_id = 44814686 -- Deceased |
| then 1 else 0 end as [Hospital\_mortality] |
| , ROW\_NUMBER() over (partition by a.person\_id order by days\_bet\_COVID\_tst\_hosp asc) rownum |
| into #covid\_hsp |
| from ( |
| select distinct vo.visit\_occurrence\_id, vo.person\_id, vo.visit\_concept\_id, vo.visit\_start\_datetime, vo.visit\_end\_datetime |
| , vo.discharge\_to\_concept\_id, vo.discharge\_to\_source\_value |
| , datediff(dd, p.birth\_datetime, GETDATE())/365.0 [Current\_age], cp.cohort\_start\_date |
| , datediff(dd, cp.cohort\_start\_date, vo.visit\_start\_datetime) days\_bet\_COVID\_tst\_hosp |
| from #covid\_pos cp |
| join omop5.visit\_occurrence vo on cp.person\_id = vo.person\_id |
| join omop5.person p on p.person\_id = vo.person\_id |
| where vo.visit\_start\_datetime >= '2019-12-01' |
| and vo.visit\_concept\_id in (9201, 262) -- IP, EI visits |
| and datediff(dd, p.birth\_datetime, GETDATE())/365.0 >= 18.0 --CORDS doesn't have birthdate info |
| and (datediff(dd, cp.cohort\_start\_date, vo.visit\_start\_datetime) between 0 and 21 -- +ve COVID status within 21 days before admission |
| or cp.cohort\_start\_date between vo.visit\_start\_datetime and vo.visit\_end\_datetime |
| ) |
| ) a |
| left join (select person\_id, min(death\_datetime) death\_datetime from OMOP\_v5.OMOP5.death |
| group by person\_id ) d on d.person\_id = a.person\_id |
|  |
|  |
|  |
| -- 4) have no COVID-19 associated hospitalisation in the six months prior to the index event |
| delete from #covid\_hsp |
| where visit\_occurrence\_id in ( |
| select d.visit\_occurrence\_id |
| from #covid\_hsp o |
| left join #covid\_hsp d on o.person\_id = d.person\_id |
| where o.visit\_occurrence\_id != d.visit\_occurrence\_id |
| and datediff(mm, o.visit\_start\_datetime, d.visit\_start\_datetime) <=6 |
| and d.visit\_start\_datetime > o.visit\_start\_datetime |
| and o.rownum = 1 |
| ) |
|  |
|  |
| --5) Length of stay should be atleast 4 hrs |
| delete hsp |
| from #covid\_hsp hsp |
| where datediff(hh, visit\_start\_datetime, visit\_end\_datetime) <= 4 |
|  |
| /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| Section 3: |
| Ethnicity breakdown |
|  |
| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/ |
|  |
| select p.ethnicity\_concept\_id, c.concept\_name, count(distinct p.person\_id) Patient\_counts |
| from #covid\_hsp hsp |
| join omop5.person p on hsp.person\_id = p.person\_id |
| left join vocab5.CONCEPT c on c.concept\_id = p.ethnicity\_concept\_id |
| group by p.ethnicity\_concept\_id, c.concept\_name |
| order by 1 |
|  |

Top of Form

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