

COVID-19 Vaccination Data Repository

Snowflake Job Aid: Frequently Used SQL Queries

Last Updated 9/24/2021

LHJ Data Sources in CA_VACCINE

Role: CA_LHJ_RO

Database: CA_VACCINE

Schema: PUBLIC

Views: VW_ALL_IIS_LHJ (dose level view) or

VW_ALL_IIS_RECIPIENTS_LHJ (recipient level view)

VW_DERIVED_FED_OVERALL_BY_COUNTY_DEMOGRAPHICS (Federal Administrations Summary)

Examples

Below are some examples of SQL queries that can be used with the PUBLIC views in Snowflake. Inserting a double hyphen (--) in the beginning of a line makes the line a comment; any text between -- and the end of the line will be ignored and will not be evaluated in the query. To include the line in the query, delete the double hyphen.

To count total COVID-19 doses administered statewide:

```
select
  count(distinct vax_event_id)
from
  "CA_VACCINE"."PUBLIC"."VW_ALL_IIS_LHJ"
;
```

To count total COVID-19 doses administered by county:

```
select
  recip_county_label as RecipCounty,
  --admin_county_label as AdminCounty,
  --mixed_county as MixedCounty,
  count(distinct vax_event_id)
from
  "CA_VACCINE"."PUBLIC"."VW_ALL_IIS_LHJ"
group by
  1
```

;

To count total COVID-19 doses administered by zip code:

```
select
  recip_address_zip as RecipZIP,
  --admin_address_zip as AdminZIP,
  --mixed_zip as MixedZIP,
  count(distinct vax_event_id)
from
  "CA_VACCINE"."PUBLIC"."VW_ALL_IIS_LHJ"
group by
  1
;
```

To count total COVID-19 doses by manufacturer or dose number:

```
select
  vax_label as Manufacturer,
  --dose_num,
  count(distinct vax_event_id) as Doses
from
  "CA_VACCINE"."PUBLIC"."VW_ALL_IIS_LHJ"
group by
  1
order by
  1
;
```

To count total COVID-19 doses administered by Vaccine Equity Metric quartile and county:

```
select
  hpiquartile as VEM,
  HPI_COUNTY_RCP_ZIP as Recipient_County,
  count(distinct vax_event_id) as Doses
from
  "CA_VACCINE"."PUBLIC"."VW_ALL_IIS_LHJ"
group by
  1, 2
order by
  1, 2
;
```

To count total persons vaccinated with at least 1 COVID-19 vaccine dose by county:

```
select
  recip_county_label as RecipCounty,
  --admin_county_label as AdminCounty,
  --mixed_county as MixedCounty,
  count(distinct recip_id) as Persons
from
  "CA_VACCINE"."PUBLIC"."VW_ALL_IIS_RECIPIENTS_LHJ"
group by
  1
order by
  1
;
```

To count total persons fully or partially vaccinated by county:

```
select
  recip_county_label as RecipCounty,
  --admin_county_label as AdminCounty,
  --mixed_county as MixedCounty,
  count(distinct recip_id) as Persons
from
  "CA_VACCINE"."PUBLIC"."VW_ALL_IIS_RECIPIENTS_LHJ"
where
  fully_vaccinated=1      --Fully Vaccinated
  --fully_vaccinated=0    --Partially Vaccinated
group by
  1
order by
  1
;
```

To count total persons who have received a J&J dose:

```
select
  distinct recip_id,
  recip_first_name,
  recip_last_name,
  recip_recip_dob
from
  "CA_VACCINE"."PUBLIC"."VW_ALL_IIS_RECIPIENTS_LHJ"
where
  vax_received like '%J&J%'
```

;

To count total persons who received only one dose of Pfizer or Moderna vaccine:

```
select
  mixed_county,
  vax_received,
  count(distinct recip_id) as Persons,
from
  "CA_VACCINE"."PUBLIC"."VW_ALL_IIS_RECIPIENTS_LHJ"
where (
  (VAX_RECEIVED like 'Pfizer')
  or
  (VAX_RECEIVED like 'Moderna')
)
and not (DS1_ORIG_DOSE_NUM = '2' and DS2_VAX_EVENT_ID is null) --only has single dose labeled
as dose 2
and DS2_ADMIN_DATE is null --does not have two doses
--and mixed_county="" --county filter
group by
  1,2
order by
  1,2
;
```

To count fully or partially vaccinated persons by VEM quartile or age group:

```
select
  hpiquartile as VEM,
  --hpiquartile_rcp_zip as VEM_Recip,
  --recip_age_group,
  count(distinct recip_id) as Persons
from
  "CA_VACCINE"."PUBLIC"."VW_ALL_IIS_RECIPIENTS_LHJ"
where
  fully_vaccinated = 1 --Fully vaccinated
  --fully_vaccinated = 0 --Partially vaccinated
  --and mixed_county = "" --County filter
group by
  1
order by
  1
;
```

To count fully or partially vaccinated persons by user-defined age range and vaccination status:

```
select
  count(distinct recip_id) as Persons
from
  "CA_VACCINE"."PUBLIC"."VW_ALL_IIS_RECIPIENTS_LHJ"
where
  fully_vaccinated = 1          --Fully vaccinated
  and recip_age between 12 and 15  --Age filter
group by
  1
order by
  1
;
```

To count total persons who are fully or partially vaccinated, by VEM quartile and county:

```
select
  HPIQUARTILE as VEM,
  HPI_COUNTY_RCP_ZIP as Recipient_County,
  count(distinct recip_id) as Persons
from
  "CA_VACCINE"."PUBLIC"."VW_ALL_IIS_RECIPIENTS_LHJ"
where
  fully_vaccinated = 1          --Fully vaccinated
  --fully_vaccinated = 0        --Partially vaccinated
group by
  1, 2
order by
  1, 2
;
```

To see the total federal administrations in a particular county by Age Group:

```
select
  COUNTY
  ,DEMOGRAPHIC_CATEGORY
  ,DEMOGRAPHIC_VALUE
  ,CUMULATIVE_TOTAL_DOSES
from
  "CA_VACCINE"."PUBLIC"."VW_DERIVED_FED_OVERALL_BY_COUNTY_DEMOGRAPHICS"
where
  COUNTY = 'Alameda' and DEMOGRAPHIC_CATEGORY = 'Age Group'
;
```

To see the total federal administrations in a particular county by Race/Ethnicity:

```
select
COUNTY
,DEMOGRAPHIC_CATEGORY
,DEMOGRAPHIC_VALUE
,CUMULATIVE_TOTAL_DOSES
from
"CA_VACCINE"."PUBLIC"."VW_DERIVED_FED_OVERALL_BY_COUNTY_DEMOGRAPHICS"
where
COUNTY = 'Alameda' and DEMOGRAPHIC_CATEGORY = 'Race/Ethnicity'
;
```

References

The data dictionaries for VW_ALL_IIS_LHJ and VW_ALL_IIS_RECIPIENTS_LHJ can be found on the [CAIR2 Website](#).