SQL Assignment_2337014

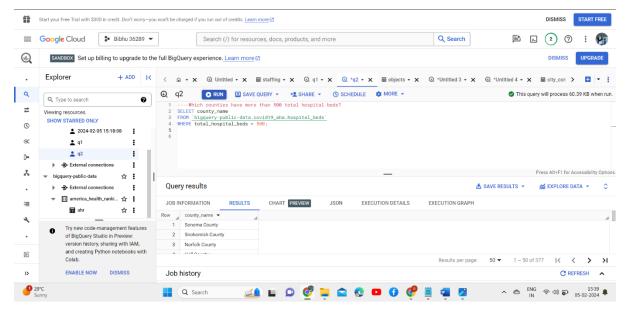
Q1: Find the total number of hospital beds in each state.

```
---Find the total number of hospital beds in each state.

SELECT state_name, SUM(total_hospital_beds) AS total_beds

FROM `bigquery-public-data.covid19_aha.hospital_beds`

GROUP BY state_name;
```



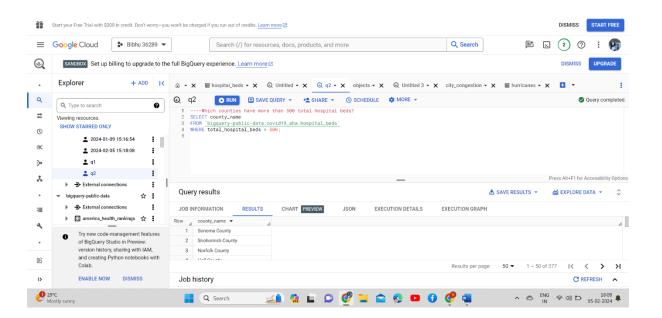
Q.2) ----Which counties have more than 500 total hospital beds?

```
---Which counties have more than 500 total hospital beds?

SELECT county_name

FROM `bigquery-public-data.covid19_aha.hospital_beds`

WHERE total_hospital_beds > 500;
```



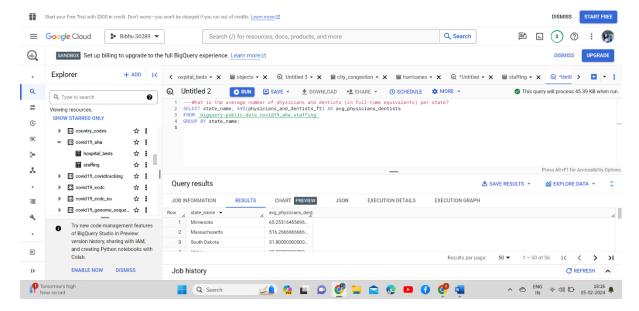
Q.3) What is the average number of physicians and dentists (in full-time equivalents) per state?

---What is the average number of physicians and dentists (in full-time equivalents) per state?

SELECT state_name, AVG(physicians_and_dentists_ft) AS avg_physicians_dentists

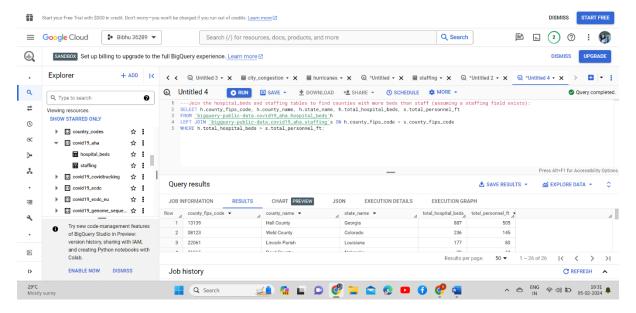
FROM `bigquery-public-data.covid19_aha.staffing`

GROUP BY state_name;



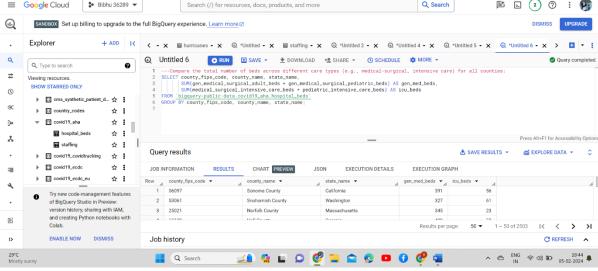
Q.4) Join the hospital_beds and staffing tables to find counties with more beds than staff (assuming a staffing field exists):

```
---Join the hospital_beds and staffing tables to find counties with more beds than staff (assuming a staffing field exists):
SELECT h.county_fips_code, h.county_name, h.state_name, h.total_hospital_beds, s.total_personnel_ft
FROM `bigquery-public-data.covid19_aha.hospital_beds`h
LEFT JOIN `bigquery-public-data.covid19_aha.staffing`s ON h.county_fips_code = s.county_fips_code
WHERE h.total_hospital_beds > s.total_personnel_ft;
```



Q.5) Compare the total number of beds across different care types (e.g., medical-surgical, intensive care) for all counties:

--- Compare the total number of beds across different care types (e.g., medicalsurgical, intensive care) for all counties: SELECT county_fips_code, county_name, state_name, SUM(gen_medical_surgical_adult_beds + gen_medical_surgical_pediatric_beds) AS gen_med_beds, SUM(medical_surgical_intensive_care_beds + pediatric_intensive_care_beds) AS icu_beds FROM `bigquery-public-data.covid19_aha.hospital_beds` GROUP BY county_fips_code, county_name, state_name; Start your Free Trial with \$300 in credit. Don't worry—you won't be charged if you run out of credits. Learn more DISMISS START FREE Search (/) for resources, docs, products, and more **①** SANDBOX Set up billing to upgrade to the full BigQuery experience. Learn more 🗷 Explorer Q

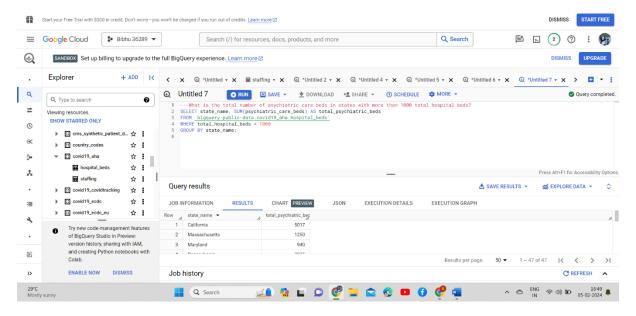


Q.6) What is the total number of psychiatric care beds in states with more than 1000 total hospital beds?

---What is the total number of psychiatric care beds in states with more than 1000 total hospital beds?

SELECT state_name, SUM(psychiatric_care_beds) AS total_psychiatric_beds

```
FROM `bigquery-public-data.covid19_aha.hospital_beds`
WHERE total_hospital_beds > 1000
GROUP BY state_name;
```



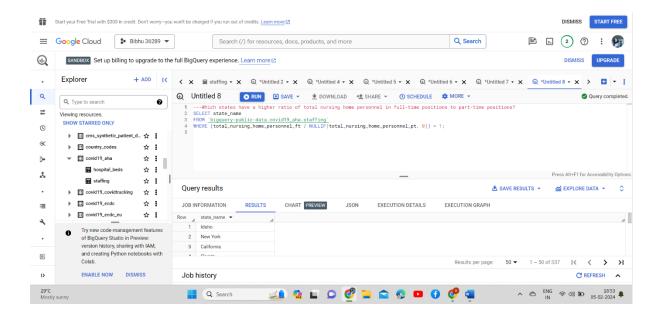
Q.7) Which states have a higher ratio of total nursing home personnel in full-time positions to part-time positions?

```
---Which states have a higher ratio of total nursing home personnel in full-time positions to part-time positions?

SELECT state_name

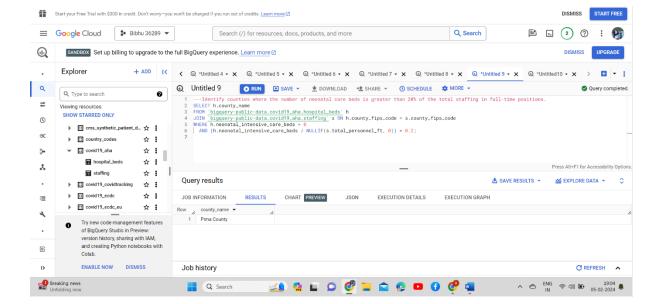
FROM `bigquery-public-data.covid19_aha.staffing`

WHERE (total_nursing_home_personnel_ft / NULLIF(total_nursing_home_personnel_pt, 0)) > 1;
```

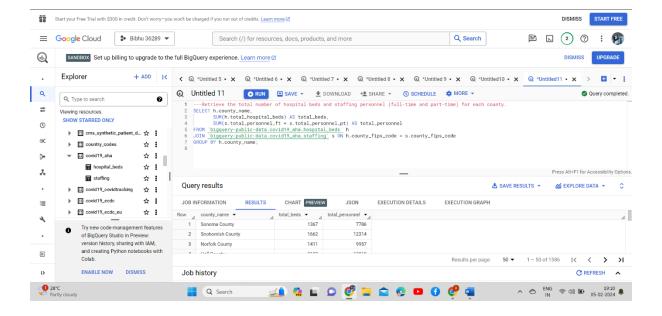


Q.8) Identify counties where the number of neonatal care beds is greater than 20% of the total staffing in full-time positions.

```
---Identify counties where the number of neonatal care beds is greater than 20% of
the total staffing in full-time positions.
SELECT h.county_name
FROM `bigquery-public-data.covid19_aha.hospital_beds` h
JOIN `bigquery-public-data.covid19_aha.staffing` s ON h.county_fips_code =
s.county_fips_code
WHERE h.neonatal_intensive_care_beds > 0
AND (h.neonatal_intensive_care_beds / NULLIF(s.total_personnel_ft, 0)) > 0.2;
```



Q.9) Retrieve the total number of hospital beds and staffing personnel (full-time and part-time) for each county.



Q.10) Identify counties with the highest ratio of specific care type beds to staff (e.g.,

medical-surgical beds per nurse): ---Identify counties with the highest ratio of specific care type beds to staff (e.g., medical-surgical beds per nurse): SELECT h.county_fips_code, h.county_name, h.state_name, h.gen_medical_surgical_adult_beds + h.gen_medical_surgical_pediatric_beds AS gen_med_beds, s.medical_surgical_intensive_care_fte FROM `bigquery-public-data.covid19_aha.hospital_beds` h INNER JOIN `bigguery-public-data.covid19_aha.staffing` s ON h.county_fips_code = s.county_fips_code WHERE s.medical_surgical_intensive_care_fte > 0 ORDER BY (gen_med_beds / s.medical_surgical_intensive_care_fte) DESC; DISMISS START FREE Search (/) for resources, docs, products, and more **①** SANDBOX Set up billing to upgrade to the full BigQuery experience. Learn more ☑ Q Q Type to search (1) ☆ : country_codes 000

