Group 3 - MOD Project:

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1. Executive Summary

Our objective is to identify optimal locations for opening a new Drug Store outlet in the United States. By analyzing demographic data, foot traffic patterns, and existing hospital information, we aim to highlight areas with high potential for drug store success. This data will then inform our recommendations for a suitable client seeking promising store locations.

Key Findings:

- **Brand Focus**: There are 59 brands that match the NAICS code 446110, which represents pharmacies and drug stores. After a thorough analysis, we identified one standout brand: **Safeway Pharmacy**.
- Optimum Location: After detailed analysis, we found that **King County in Washington** is the optimum location to start the business. It has a high concentration of the adult population (25% aged 55-84) and excellent footfall in the nearby hospitals, making it a strong candidate for a successful store launch.
- Outlets Analysis: On average, drug store brands in the U.S. have 466.06 outlets. Major outliers in the data are CVS (9,906 outlets), Walgreens (8,605 outlets), and RiteAid (3,292 outlets). These outliers are dominant, while smaller, local brands such as Clark's Rx operate with as few as 1 outlet. After removing such outliers, the average number of outlets for the remaining brands provides a more realistic picture of expansion opportunities.
- **Geographic Dominance**: Many brands tend to have a stronghold in a specific state. This suggests a strategic opportunity for expansion in states where those particular brands have little or no presence.
- Wholesaler Concentration: The highest number of drug wholesalers are in Oklahoma, which could be a factor when considering supply chain logistics for new outlets.
- Data Gaps: It is important to note that we do not have population data for certain states, including Alabama, Alaska, Arizona, Arkansas, California, Colorado, and Connecticut, as well as specific counties like Bristol Bay Borough, Denali Borough, and Kenai Peninsula Borough. This limits our analysis in these areas, and they may offer additional opportunities that we were unable to evaluate.

This analysis positions **Safeway Pharmacy** as a strong candidate for expansion in underrepresented areas, particularly in **King County, Washington**, where demographic trends and

hospital foot traffic suggest high success potential. Detailed analysis of these key findings are discussed in this report.

2. Introduction

Background:

Healthcare has always been a vital aspect of any country's well-being, and providing quality healthcare facilities is essential. These facilities should include easily accessible pharmacies and drug stores, ensuring that patients can conveniently obtain necessary medications when visiting hospitals. Motivated by this gap in healthcare access, we used data-driven analysis to identify ideal locations for drug stores near hospitals. Our goal is to enhance healthcare accessibility while offering strategic business solutions. By focusing on well-performing drug stores with fewer than average locations, we identified potential areas for expansion that can benefit both the business and the community.

Objectives: The purpose of this report is to determine the best location for opening a new store. Our team has focused on analyzing key data to answer the following questions:

- 1. Which brand should we focus on?
- 2. Which county and state will provide the optimal location to maximize profit while minimizing risk?
- 3. Which street should the store be opened on?

3. Methodology

Assumptions:

- **Brand Expansion Potential**: Brands with fewer stores are more likely to expand, so we focused on those with fewer existing outlets.
- Footfall as a Success Indicator: Higher foot traffic in existing stores signals a successful brand, so we focused on brands with footfall above the industry average.
- **Healthcare Demand as a Key Driver**: Locations near hospitals with high footfall are likely to have greater demand for drug stores. The assumption is that areas with high footfall in hospitals are reflective of overall healthcare needs.
- Targeting Older Populations: Older demographics (ages 55 to 84) are more likely to frequent hospitals and pharmacies. Therefore, counties with a higher proportion of older populations were considered prime locations.

Thought Process:

Our methodology revolves around maximizing profit while minimizing risk. To do this, we first focused on identifying a brand that has potential for expansion but is not overly saturated in the market. We targeted mid-sized brands with strong performance in terms of foot traffic, avoiding

outliers like CVS, Walgreens, and RiteAid, which already has broad coverage and limited potential for expansion.

Once the brand was selected, we moved to location analysis. We assumed that areas with high healthcare demand—measured by footfall near hospitals—are prime for pharmacy expansion. This assumption is based on the idea that drug stores will thrive near hospitals with high traffic. In parallel, we also focused on counties where the population is more likely to require frequent healthcare services, especially older individuals aged 55 to 84.

4. Results

- 1. Following are the results for Query 1: Deciding on optimum brand
- a. The 5 Drug Store Brands with the number of outlets just above the median number of Drug Store brand outlets are shown in table 1.1
- b. The 5 Drug Store Brands with the number of visits just above the median number of Footfall are shown in table 1.2

The combinations present in their intersection are Rite Aid, Safeway Pharmacy and Benzer Pharmacy. But since Rite Aid is an outlier we didn't go for that brand. Secondly, Benzer Pharmacy didn't have many location options that were closer to hospitals.

Therefore we went with the brand Safeway Pharmacy, which had a good opportunity to expand their business.

Brand	Outlet Count
Benzer Pharmacy	120
Duane Reade by	136
Walgreens	100
The Medicine	300
Shoppe	300
Safeway Pharmacy	400
Rite Aid	3292

Table 1.1: Based on Drug stores outlets

Brand	Outlet count
Discount	76
Drug Mart	76
Benzer	114
Pharmacy	114
Medicap	75
Pharmacy	75
Rite Aid	3253
Safeway	424
Pharmacy	424

Table 1.2: Based on Footfall(visits)

- 2. Following are the results for Query 2: Deciding on optimum state+county combination
- a. The 5 State+County combinations which are just below the median number of Drug Store brand outlets are shown in table 2.1
- b. The 10 State+County combinations which are just above the median hospital footfall are shown in table 2.2

The only state+county combination present in their intersection is King County in Washington state

State	County	
WA	King County	
VA	Fairfax County	
OR	Multnomah	
	County	
MD	Montgomery	
	County	
WA	Pierce County	

Table 2.1: Based on Drug stores outlets

State	County
OK	Cleveland County
МО	Laclede County
NM	Santa Fe County
IN	Dearborn County
MA	Hampden County
MT	Missoula County
ОН	Greene County
NY	Bronx County
WA	King County
TN	Franklin County

Table 2.2: Based on nearby Hospital footfall

3. Following are the results for query 3: Deciding on exact location to open the store(Postal code and street address)

State: Washington, County: King County

City	Postal Code	Street Address
Kirkland	98034	12040 NE 128th St Ste 1600
Renton	98055	400 S 43rd St
Renton	98055	4033 Talbot Rd S Ste 450
Renton	98055	4033 Talbot Rd S Ste 530
Auburn	98002	1 E Main St
Issaquah	98027	1740 NW Maple St Ste 100
Renton	98055	Main Hospital 400 S. 43rd St

Given that Renton has multiple potential locations, it presents more business opportunities. Opening a store on one of these streets in Renton would be a strategically sound decision based on the high hospital foot traffic and population dynamics in the area.

4. Discussion

Implications of the Findings: The analysis provides key insights for optimal store placement:

Targeting the Right Population:

Areas like Renton (98055), Seattle (98104), and Auburn (98002) have high percentages of older adults, a key demographic for drug stores. Locating the store in these areas ensures steady demand from frequent healthcare visitors.

Leveraging Hospital Foot Traffic:

Locations near high-traffic hospitals, such as 4033 Talbot Rd S in Renton and Main Hospital West Clinic in Seattle, attract consistent footfall from patients and healthcare workers, boosting store visibility.

Suburban Growth Potential:

Emerging areas like Issaquah and Maple Valley show moderate foot traffic and a growing aging population, offering long-term growth potential while avoiding overcrowded markets.

These insights help align the store's placement with demographic needs and high footfall areas, maximizing profit and reducing risk.

Limitations: Only locations with available population data were considered for this analysis. There may be other counties or states that could have been a better fit, but due to the absence of population data, they were not included in the evaluation. This limits the comprehensiveness of the findings and may overlook potentially more suitable locations.

5. Conclusion and Recommendations

Actionable Recommendations:

- **Target Brand Expansion:** Focus on partnering with brands like Safeway Pharmacy, which are mid-sized and looking to expand. These brands show strong performance but are not yet oversaturated in the market.
- **Prioritize King County, Washington:** Based on the analysis, King County has a high proportion of the adult population and significant hospital footfall, making it an optimal location for a new store.
- Expand Demographic Analysis: As future steps, consider collecting or purchasing more comprehensive demographic data for other counties and states to ensure no viable location is overlooked due to data gaps.
- **Monitor Competition:** Although RiteAid and Walgreens dominate in many locations, focus on regions where these brands have a weaker presence to minimize competition while capitalizing on unmet demand.

Query Log for the Project

Main queries

Q1. Which brand should be the focus for expansion?

```
-- loc_counts will have the list of Pharmacy brands which have more than 50 outlets
WITH loc_counts AS (
-- Step 1: Get a count of distinct locations for each brand
      SELECT
             brands.safegraph_brand_id AS brand_id,
             brands.brand_name AS brand,
             COUNT(DISTINCT(places.safegraph_place_id)) AS location_count,
             -- Generate row number for each brand, ordered by the count of locations
             ROW_NUMBER() OVER (ORDER BY COUNT(DISTINCT(places.safegraph_place_id)))
             AS row_num
      FROM
             `querious-jac-grp3-final.grp3_safegraph.brands` AS brands
      INNER JOIN
             `querious-jac-grp3-final.grp3_safegraph.places` AS places
      ON
             brands.safegraph_brand_id = places.safegraph_brand_ids
      WHERE
      -- Filter for Pharmacy category NAICS code
             brands.naics_code = 446110
      GROUP BY
             brands.safegraph_brand_id, brands.brand_name
      HAVING
             -- Only include brands with more than 50 outlets
             COUNT(DISTINCT(places.safegraph_place_id)) > 50
-- Median will give us the median value from the number of outlets
median AS (
-- Step 2: Calculate the median row number from loc_counts
      SELECT.
             MAX(row_num) / 2 AS med
      FROM
```

```
loc_counts
),
-- Top5_brand_outlet will filter brands with number of outlets higher than the median
value
Top5_brand_outlet AS (
-- Step 3: Select brands with row numbers around the median (5 above the median)
             brand_id.
             brand.
             location_count
      FROM
             loc_counts
      WHERE
      -- Brands just above the median
             row_num > (SELECT med FROM median)
      AND
      -- Up to 5 brands above the median
             row_num <= (SELECT med FROM median) + 5
      ORDER BY
             row_num ASC
),
-- Step 4: Get footfall(visits) information (number of visits divided by the number of
locations)
outlet_footfall AS (
      SELECT
             brands.safegraph_brand_id AS of_brand_id,
             brands.brand_name AS of_brand,
             COUNT(DISTINCT(places.safegraph_place_id)) AS location_count,
             COUNT(DISTINCT(visits.date_range_start)) AS no_of_months,
             -- Generate a row number based on the ratio of visits to location count
             ROW_NUMBER() OVER (ORDER BY SUM(visits.raw_visit_counts) /
             COUNT(DISTINCT(places.safegraph_place_id)) *
             COUNT(DISTINCT(visits.date_range_start)) AS row_num
      FROM
             `querious-jac-grp3-final.grp3_safegraph.brands` AS brands
      INNER JOIN
              `querious-jac-grp3-final.grp3_safegraph.places` AS places
      ON
             brands.safegraph_brand_id = places.safegraph_brand_ids
      INNER JOIN
              `querious-jac-grp3-final.grp3_safegraph.visits` AS visits
      ON
             visits.safegraph_place_id = places.safegraph_place_id
      -- Filter for Pharmacy category NAICS code
             brands.naics_code = 446110
      GROUP BY
             brands.safegraph_brand_id, brands.brand_name
```

```
HAVING
      -- Only include brands with more than 50 outlets
             COUNT(DISTINCT(places.safegraph_place_id)) > 50
),
-- Median will give us the median value from the Footfall
median_of AS (
-- Step 5: Calculate the median row number based on footfall data
      SELECT
             MAX(row_num) / 2 AS med
      FROM
             outlet_footfall
),
-- Top5_brand_footfall will filter brands with number of footfalls higher than the
median value
Top5_brand_footfall AS (
-- Step 6: Select brands with footfall data around the median (5 above the median)
      SELECT
             of_brand_id,
             of_brand,
             outlet_footfall.location_count
      FROM
             outlet_footfall
      WHERE
             -- Brands just above the footfall median
             row_num > (SELECT med FROM median_of)
      AND
             -- Up to 5 brands above the median
             row_num <= (SELECT med FROM median_of) + 5</pre>
      ORDER BY
             row_num ASC
)
-- Step 7: Join the results from the Top5_brand_outlet and the Top5_brand_footfall
SELECT *
FROM Top5_brand_outlet
INNER JOIN Top5_brand_footfall
ON Top5_brand_outlet.brand_id = Top5_brand_footfall.of_brand_id;
```

Answer :

Row	brand_id	brand	location_count
1	SG_BRAND_dcb657b5f186	Benzer Pharmacy	120
	fff7e0f5c09b222db75d		
2	SG_BRAND_c7706c9b14f2	Rite Aid	3292
	ca266c2a309dba059031		

3	SG_BRAND_2e6163ca2b39	Safeway Pharmacy	428
	e204		

Q2. What county and state will maximize profit while minimizing risk?

```
-- Query to calculate footfall of hospitals above the median
-- Step 1: Create a granular dataset of hospital visits and population
WITH hospitals_granular (
      SELECT
             counties.county AS county,
             counties.state AS state,
             places.city AS city,
             places.postal_code as postal_code,
             places.street_address as street_address,
             -- Total footfall of hospitals
             sum(visits.raw_visit_counts) as footfall_of_hospitals,
             -- Total population of the region
             sum(demographics.pop_total) as pop,
             -- Footfall per capita per month (to measure traffic relative to
      population)
             (sum(visits.raw_visit_counts)/count(visits.date_range_start)) /
             nullif(sum(demographics.pop_total), 0) as footfall_per_month_per_capita
      FROM
             `querious-jac-grp3-final.grp3_safegraph.brands` as brands
      INNER JOIN
             `querious-jac-grp3-final.grp3_safegraph.places` as places
      ON
             brands.safegraph_brand_id = places.safegraph_brand_ids
      INNER JOIN
             `querious-jac-grp3-final.grp3_safegraph.visits` as visits
      ON
             visits.safegraph_place_id = places.safegraph_place_id
      INNER JOIN
              `querious-jac-grp3-final.grp3_safegraph.cbg_demographics` as demographics
      ON
             visits.poi_cbg = demographics.cbg
      INNER JOIN
             `querious-jac-grp3-final.grp3_safegraph.cbg_fips` as counties
      ON
             concat(counties.state_fips, counties.county_fips) = left(visits.poi_cbg,
      5)
      WHERE
             brands.naics_code = 622110 -- Filter for hospitals
      GROUP BY
             county,
             state,
             city,
```

```
postal_code,
             street_address,
             brand_name,
             places.latitude,
             places.longitude -- Group by region and hospital information
-- Step 2: Rank hospitals by footfall per capita
hospitals as (
      SELECT
             hospitals_granular.county,
             hospitals_granular.state,
             -- Calculate average footfall per capita
             avg(hospitals_granular.footfall_per_month_per_capita),
             -- Rank counties based on footfall
             ROW_NUMBER() OVER (ORDER BY
       (avg(hospitals_granular.footfall_per_month_per_capita))) as row_num
      FROM
             hospitals_granular
      GROUP BY
             county,
             state
),
-- Step 3: Calculate the median footfall
median1 as (
      SELECT.
             max(row_num) / 2 as med -- Calculate the median row number (for footfall
      ranking)
      FROM
             hospitals
),
-- Step 4: Select counties above the median footfall
tab1 as (
      SELECT *
      FROM
             hospitals
      WHERE
             -- Filter for rows above the median footfall
             row_num > (SELECT med FROM median1)
      AND
       -- Select the next 12 rows after the median
             row_num <= (SELECT med FROM median1) + 12</pre>
      ORDER BY
             row_num ASC),
-- Query to calculate brand outlet counts below average
```

```
-- Step 5: Count the number of drug store outlets for Safeway Pharmacy
drugs_stores as (
      SELECT
             places.region as state,
             counties.county as county,
             -- Rank counties by outlets per capita
             ROW_NUMBER() OVER (ORDER BY count(places.safegraph_place_id)/
      nullif(sum(demographics.pop_total), 0)) as row_num,
             -- Count total number of outlets
             count(places.safegraph_place_id) as count_brand_outlets,
             sum(demographics.pop_total),
             -- Calculate outlets per capita
             count(places.safegraph_place_id)/ nullif(sum(demographics.pop_total),0)
      as Outlets_per_Capita
      FROM
             `querious-jac-grp3-final.grp3_safegraph.brands` as brands
      INNER JOIN
             `querious-jac-grp3-final.grp3_safegraph.places` as places
      ON
             brands.safegraph_brand_id = places.safegraph_brand_ids
      INNER JOIN
             `querious-jac-grp3-final.grp3_safegraph.visits` as visits
      ON
             visits.safegraph_place_id= places.safegraph_place_id
      INNER JOIN
             `querious-jac-grp3-final.grp3_safegraph.cbg_demographics` as demographics
      ON
             visits.poi_cbg=demographics.cbg
      INNER JOIN
             `querious-jac-grp3-final.grp3_safegraph.cbg_fips` as counties
      ON
             concat(counties.state_fips, counties.county_fips) = left(visits.poi_cbg,
      5)
      WHERE
             brands.brand_name = "Safeway Pharmacy"
      GROUP BY
             state,
             county
      ORDER BY
             count_brand_outlets desc
),
-- Step 6: Calculate the median outlet count
median as (
      SELECT
             max(row_num) / 2 as med -- Calculate the median row number (for outlet
      count)
      FROM
```

```
drugs_stores
),
-- Step 7: Select counties with outlet counts below the median
tab2 as (
      SELECT *
      FROM
             drugs_stores
      WHERE
             row_num < (SELECT med FROM median) -- Filter for rows below the median
      outlet count
      AND
             row_num >= (SELECT med FROM median) - 15 -- Select the next 15 rows
      before the median
      ORDER BY
             row_num ASC)
-- Step 8: Join results from footfall and outlet count analysis
SELECT *
FROM
      tab1
INNER JOIN
      tab2
ON
      tab1.county = tab2.county
AND
      tab1.state = tab2.state;
Q3. What specific street locations near hospitals will attract the most foot traffic?
-- Step 1: Create a dataset for hospital footfall, population, and aged population in
King County, WA
WITH tab AS (
      SELECT
             places.city as city,
             places.postal_code as postal_code,
             places.street_address as street_address,
             brands.brand_name as brand_hospital,
             -- Calculate the average hospital footfall per month by dividing total
      visit counts by the number of time periods
             (sum(visits.raw_visit_counts)/count(visits.date_range_start)) as
      footfall_of_hospitals_per_month,
-- Calculate the average population per month by dividing total population by the
number of time periods
(sum(demographics.pop_total)/count(visits.date_range_start)) as total_pop_per_month,
-- Calculate the average aged population per month for male and female (55-84 age
range) by dividing by the number of time periods
(sum(
```

```
pop_m_55-59 + pop_m_60-61 + pop_m_62-64 + pop_m_65-66 + pop_m_67-69 +
pop_m_70-74+pop_m_75-79+pop_m_80-84+-
pop_f_55-59 + pop_f_60-61 + pop_f_62-64 + pop_f_65-66 + pop_f_67-69 +
pop_f_70-74 + pop_f_75-79 + pop_f_80-84 -- Female population in the age ranges
) / count(visits.date_range_start)) as aged_pop_per_month -- Dividing the aged
population by the number of months
FROM `querious-jac-grp3-final.grp3_safegraph.brands` as brands -- SafeGraph brands
dataset
INNER JOIN `querious-jac-grp3-final.grp3_safegraph.places` as places -- Join places
dataset to get location information
ON brands.safegraph_brand_id = places.safegraph_brand_ids
INNER JOIN `querious-jac-grp3-final.grp3_safegraph.visits` as visits -- Join visit
data to get footfall counts
ON visits.safegraph_place_id = places.safegraph_place_id
INNER JOIN `querious-jac-grp3-final.grp3_safegraph.cbg_demographics` as demographics -
- Join demographic data
ON visits.poi_cbg = demographics.cbg
INNER JOIN `querious-jac-grp3-final.grp3_safegraph.cbg_fips` as counties -- Join
county data
ON concat(counties.state_fips, counties.county_fips) = left(visits.poi_cbq, 5)
WHERE brands.naics_code = 622110 -- Filter for hospitals (NAICS code 622110)
AND counties.county = 'King County' -- Filter for King County
AND counties.state = 'WA' -- Filter for Washington state
GROUP BY city, postal_code, street_address, brand_name -- Group by city, postal code,
street address, and brand
ORDER BY footfall_of_hospitals_per_month DESC -- Order results by descending footfall
of hospitals per month
)
-- Step 2: Calculate the ratio of aged population to total population for each
hospital and select all fields from tab
SELECT *,
tab.aged_pop_per_month / tab.total_pop_per_month as aged_pop_ratio -- Calculate the
ratio of aged population to total population
FROM tab:
------Research Queries------
-- Query 1: Fetch the number of brands in the dataset that match the NAICS code 446110
(representing pharmacies or drug stores)
-- The result should give 59 brands.
SELECT
      brands.safegraph_brand_id,
      brands.brand_name
FROM
      `querious-jac-grp3-final.grp3_safegraph.brands` AS brands
```

```
WHERE
      brands.naics_code = 446110;
-- Query 2: Count distinct place IDs in the dataset to check if all the place IDs are
unique.
SELECT
      DISTINCT(safegraph_place_id)
FROM
       `querious-jac-grp3-final.grp3_safegraph.places`;
-- Query 3: Calculate the ratio of each brand's location count to the sum of all
location counts.
SELECT
      safegraph_brand_id,
      brand_name.
      location_count,
      location_count / (SELECT SUM(location_count) FROM loc_counts) AS
      loc_count_ratio
FROM
      loc_counts;
-- Query 4: Calculate the average number of outlets per brand.
-- For each brand, count the distinct place IDs (outlets), then calculate the average
across all brands.
SELECT
      AVG(loc_count)
FROM (
      SELECT
             COUNT(DISTINCT p.safegraph_place_id) AS loc_count
      FROM
             `querious-jac-grp3-final.grp3_safegraph.brands` AS b
      INNER JOIN
              `querious-jac-grp3-final.grp3_safegraph.places` AS p
      ON
             b.safegraph_brand_id = p.safegraph_brand_ids
      WHERE
             b.naics_code = 446110
      GROUP BY
             b.safegraph_brand_id
);
-- Query 5: Find brands with a number of outlets greater than or equal to the average
number of outlets per brand.
-- Brands are filtered based on this condition and then sorted by the number of
outlets in descending order.
SELECT
```

```
brands.safegraph_brand_id,
      brands.brand_name,
      COUNT(DISTINCT places.safegraph_place_id) AS locations
FROM
       `querious-jac-grp3-final.grp3_safegraph.brands` AS brands
INNER JOIN
       `querious-jac-grp3-final.grp3_safegraph.places` AS places
ON
      brands.safegraph_brand_id = places.safegraph_brand_ids
WHERE
      brands.naics_code = 446110
GROUP BY
      brands.safegraph_brand_id, brands.brand_name
HAVING
      COUNT(DISTINCT places.safegraph_place_id) >= (
             SELECT AVG(loc_count)
             FROM (
                    SELECT
                           COUNT(DISTINCT p.safegraph_place_id) AS loc_count
                    FROM
                           `querious-jac-grp3-final.grp3_safegraph.brands` AS b
                    INNER JOIN
                           `querious-jac-grp3-final.grp3_safegraph.places` AS p
                    ON
                           b.safegraph_brand_id = p.safegraph_brand_ids
                    WHERE
                           b.naics_code = 446110
                    GROUP BY
                           b.safegraph_brand_id
                    )
)
ORDER BY
      locations DESC;
-- Query 6: Retrieve place details along with brand and geographic information for
wholesalers (NAICS code 424210).
SELECT
      counties.county, -- The county name from the cbg_fips table.
      places.region,
      places.city AS city,
      places.postal_code AS postal_code,
      places.street_address AS street_address,
      brands.brand_name AS brand_wholesaler, -- The brand/wholesaler name from the
                                         brands table.
      places.latitude,
      places.longitude
FROM
       `querious-jac-grp3-final.grp3_safegraph.brands` AS brands
```

```
INNER JOIN
       `querious-jac-grp3-final.grp3_safegraph.places` AS places
ON
      brands.safegraph_brand_id = places.safegraph_brand_ids
INNER JOIN
       `querious-jac-grp3-final.grp3_safegraph.visits` AS visits
ON
      visits.safegraph_place_id = places.safegraph_place_id
-- Join the cbg_demographics table to link demographic data based on the census block
group (cbg) of the place of interest (POI).
INNER JOIN
       `querious-jac-grp3-final.grp3_safegraph.cbg_demographics` AS demographics
ON
      visits.poi_cbg = demographics.cbg
-- Join the cbq_fips table to obtain county and state FIPS codes.
-- The FIPS code is combined to form a complete location identifier.
INNER JOIN
       `querious-jac-grp3-final.grp3_safegraph.cbg_fips` AS counties
ON
      CONCAT(counties.state_fips, counties.county_fips) = LEFT(visits.poi_cbq, 5)
-- Filter the results to only include places where the brand's NAICS code is 424210
(wholesalers).
WHERE
      brands.naics_code = 424210
-- Optional filter (commented out): you could restrict results to a specific county
like 'Prince William County'.
-- AND counties.county = 'Prince William County'
-- Filter the results to include only counties from certain states (NC, KY, TN, WV,
PA, OH, IN).
AND
      counties.state IN ('NC', 'KY', 'TN', 'WV', 'PA', 'OH', 'IN');
-- Query 7 : Selects the region and count of places based on the SafeGraph place ID
SELECT places.region, COUNT(places.safegraph_place_id)
-- Specifies the source table `places` from the dataset `querious-jac-grp3-
final.grp3_safegraph.places`
FROM `querious-jac-grp3-final.grp3_safegraph.places` AS places
-- Filters the records to only include places with NAICS code 424210 (Pharmaceutical
and Medical Distributors)
WHERE places.naics_code = 424210
-- Groups the results by region to get the count of places per region
GROUP BY places.region;
```