Business Analysis Using Athena Queries

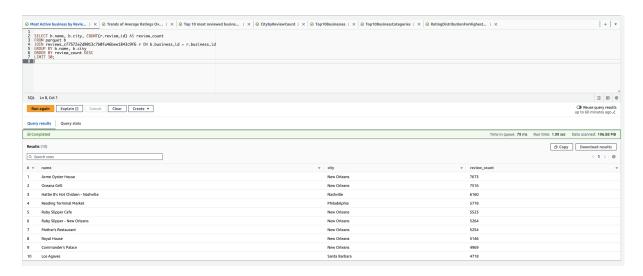
1. Most Active Business by Review Count

SELECT b.name, b.city, COUNT(r.review_id) AS review_count FROM parquet b

JOIN reviews_cf7572e2d9013c7b0fa46bee1843c9f6 r ON b.business_id = r.business_id GROUP BY b.name, b.city

ORDER BY review_count DESC

LIMIT 10;



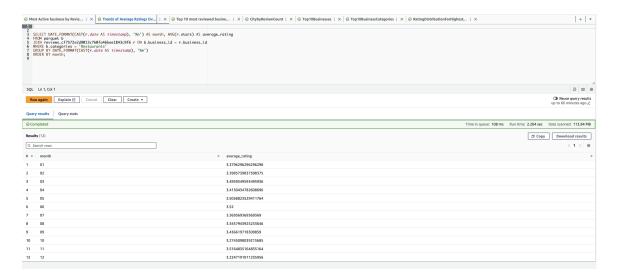
2. Trends of Average Ratings Over Time for a Specific Category

SELECT DATE_FORMAT(CAST(r.date AS timestamp), '%m') AS month, AVG(r.stars) AS average rating

FROM parquet b

JOIN reviews_cf7572e2d9013c7b0fa46bee1843c9f6 r ON b.business_id = r.business_id WHERE b.categories = 'Restaurants'

GROUP BY DATE_FORMAT(CAST(r.date AS timestamp), '%m') ORDER BY month;



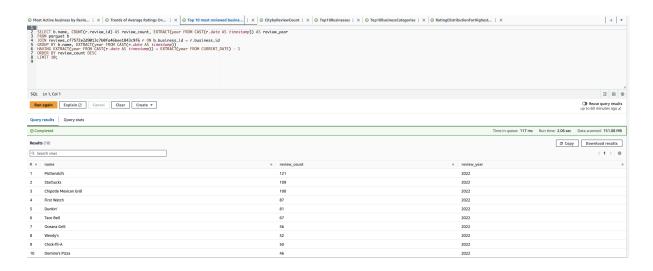
3. Top 10 Most Reviewed Businesses in the Previous Year

SELECT b.name, COUNT(r.review_id) AS review_count, EXTRACT(year FROM CAST(r.date AS timestamp)) AS review_year FROM parquet b

JOIN reviews_cf7572e2d9013c7b0fa46bee1843c9f6 r ON b.business_id = r.business_id GROUP BY b.name, EXTRACT(year FROM CAST(r.date AS timestamp))

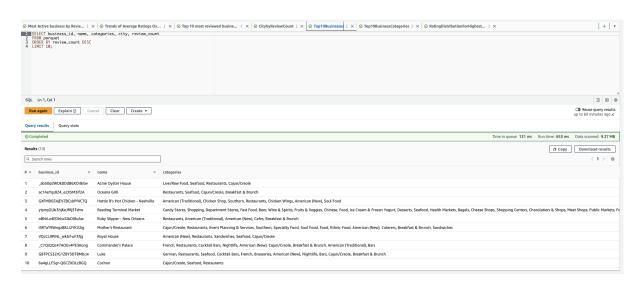
HAVING EXTRACT(year FROM CAST(r.date AS timestamp)) = EXTRACT(year FROM CURRENT_DATE) - 1

ORDER BY review_count DESC LIMIT 10;



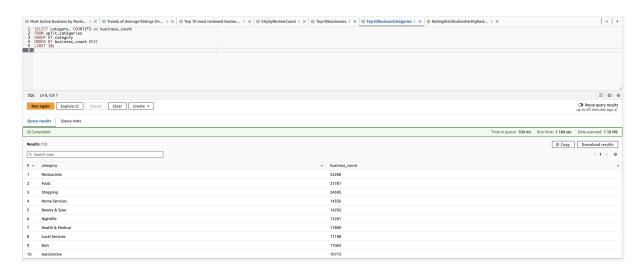
4. Top 10 Businesses

SELECT business_id, name, categories, city, review_count FROM parquet ORDER BY review_count DESC LIMIT 10;



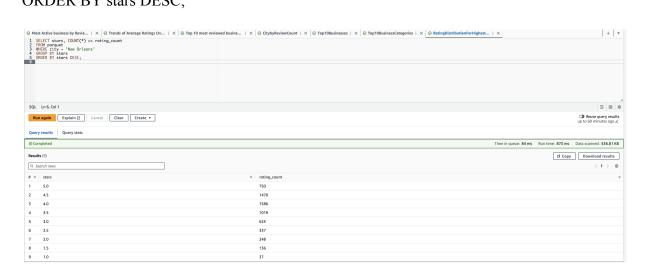
5. Top 10 Business Categories

SELECT category, COUNT(*) AS business_count FROM split_categories GROUP BY category ORDER BY business_count DESC LIMIT 10;



6. Rating Distribution for Highest Rated City

SELECT stars, COUNT(*) AS rating_count FROM parquet WHERE city = 'New Orleans' GROUP BY stars ORDER BY stars DESC;



7. Businesses with Most 5-star Reviews

SELECT b.business_id, b.name, COUNT(*) AS five_star_reviews
FROM parquet b

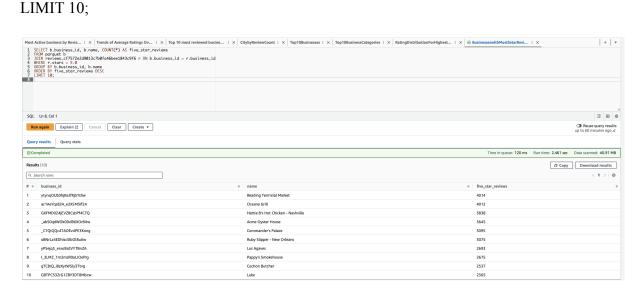
JOIN reviews_cf7572e2d9013c7b0fa46bee1843c9f6 r ON b.business_id = r.business_id

WHERE r.stars = 5.0

GROUP BY b.business_id, b.name

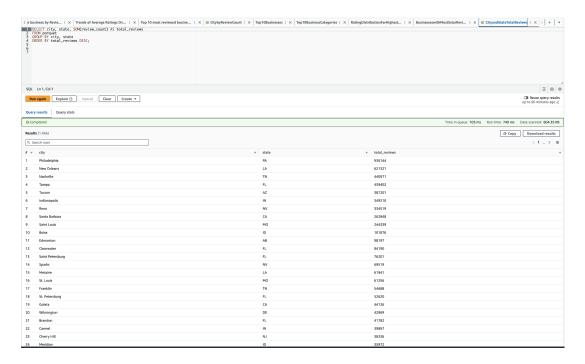
ORDER BY five_star_reviews DESC

LIMIT 10;



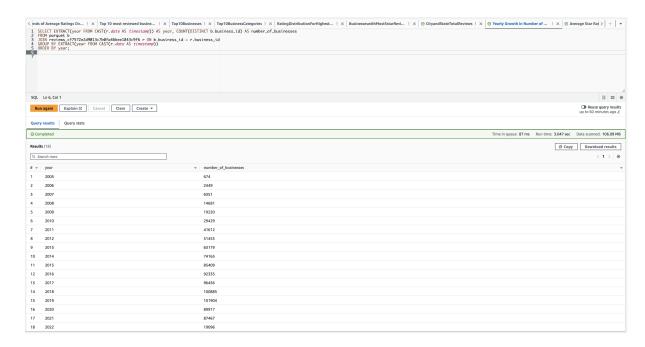
8. City and State Total Reviews

SELECT city, state, SUM(review_count) AS total_reviews FROM parquet GROUP BY city, state ORDER BY total_reviews DESC;



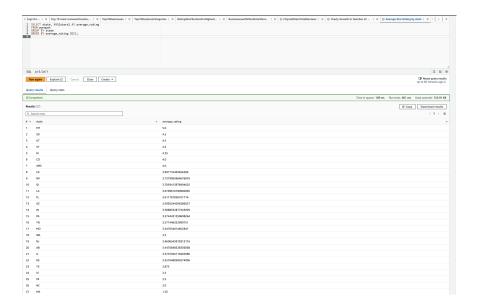
9. Yearly Growth in Number of Businesses

SELECT EXTRACT(year FROM CAST(r.date AS timestamp)) AS year, COUNT(DISTINCT b.business_id) AS number_of_businesses FROM parquet b JOIN reviews_cf7572e2d9013c7b0fa46bee1843c9f6 r ON b.business_id = r.business_id GROUP BY EXTRACT(year FROM CAST(r.date AS timestamp)) ORDER BY year;



10. Average Star Rating by State

SELECT state, AVG(stars) AS average_rating FROM parquet GROUP BY state ORDER BY average_rating DESC;



Saved Queries

