# ETL using AWS Glue and Redshift Dataset Used: AMAZON PRODUCT

**SALES** 

SQL Queries and Analysis

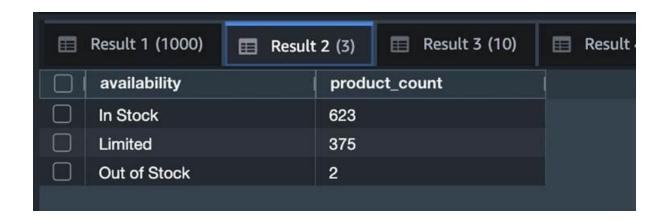
#### 1. Entire Entries

select \* from spectrum\_schema.product\_data\_final;



# 2. Count of Products by Availability

SELECT availability, COUNT(\*) AS product\_count FROM spectrum\_schema.product\_data\_final GROUP BY availability;



# 3. Top 10 Most Expensive Products

SELECT title, brand, final\_price

FROM spectrum\_schema.product\_data\_final

WHERE final\_price is not null

ORDER BY final\_price DESC

LIMIT 10;



## 4. Average Price by Manufacturer

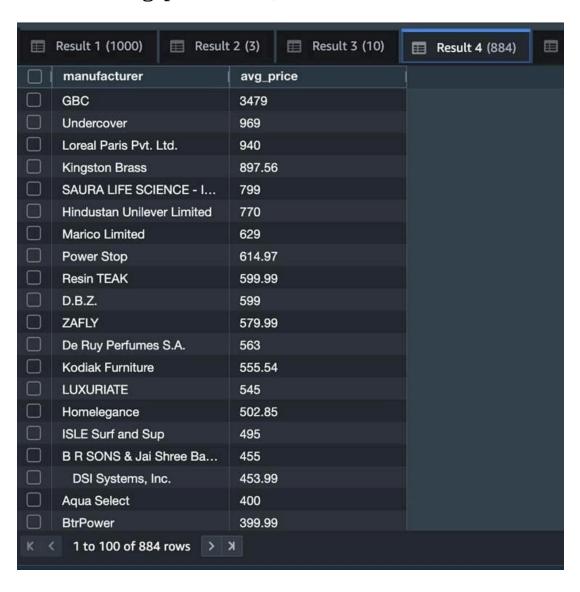
SELECT manufacturer, AVG(final\_price) AS avg\_price

FROM spectrum\_schema.product\_data\_final

WHERE final\_price is not null

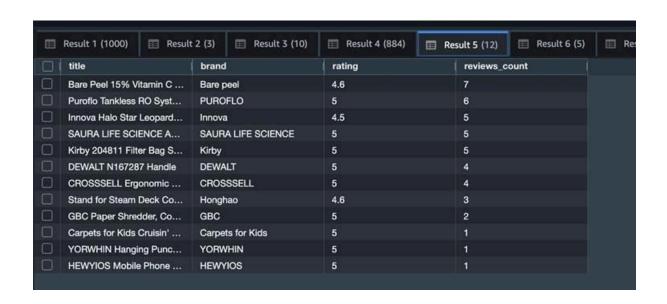
**GROUP BY manufacturer** 

ORDER BY avg\_price DESC;



#### 5. Hidden Gems: High Rating, Low Reviews

SELECT title, brand, rating, reviews\_count FROM spectrum\_schema.product\_data\_final WHERE rating >= 4.5 AND reviews\_count < 8 ORDER BY reviews\_count/rating DESC;



### 6. Top 5 Most Frequent Brands

SELECT brand, COUNT(\*) AS product\_count FROM spectrum\_schema.product\_data\_final GROUP BY brand
ORDER BY product\_count DESC
LIMIT 5;

Result 1 (1000)	Result 2	3) 🗏 Result 3 (10)	Result 4 (884)	Result 5 (12)	Result 6 (5)
brand		roduct_count			
Skechers	1	1			
AVERY					
Amazon Essentials					
New Balance					
adidas	5				

# 7. Top Rated Product per Brand

```
SELECT p1.brand, p1.rating, p1.title, p1.final_price
FROM spectrum_schema.product_data_final p1

JOIN (
SELECT brand, MAX(rating) AS max_rating
FROM spectrum_schema.product_data_final

GROUP BY brand
) p2 ON p1.brand = p2.brand AND p1.rating = p2.max_rating;
```

brand	rating	title	final_price	
Saucony	4.6	Saucony Men's Kinvara 1	57.79	
Kishigo	4.6	Kishigo Premium Black S	28.5	
TWINSLUXES	4.2	TWINSLUXES Solar Post	33.99	
Accutire	4.4	Accutire MS-4021B Digita	18	
SAURA LIFE SCIENCE	5	SAURA LIFE SCIENCE A	799	
KASOTT	4.3	KASOTT Replacement Air	17.88	
Bio-Oil	4.6	Bio-Oil Skincare Body Oil	24.95	
crysting	4.6	crysting 13 Inch Sewing	20.99	
RIDGID	4.4	Ridgid 62990 T-201 5* Str	25.38	
Core 10	4.4	Core 10 Women's All Day	23.92	
Barney Butter	4.5	Barney Butter Bare Smoo	NaN	
EKSA	4.1	Trucker Bluetooth Headse	84.99	
LOOGU	4.6	LOOGU Desert Netting S	11.19	
PULOTE	4.7	PULOTE 100PCS Pink Pl	45	
Stahlwille	4.4	Stahlwille 96410704 Dou	141.1	
Cell9102	4	2Packs 18V Battery and	69.99	
General Tools	4.1	General Tools 3-Pack Ret	6.19	
DANIEL SMITH	4.8	DANIEL SMITH Extra Fine	13.52	
NZND	4.5	NZND Case for At&t Moti	13.98	
Braun	4.3	Braun SE5-895 Epilator,	94.94	