





AMAZON SALES DATA ANALYSIS

PRESENTED BY VINAYAK LATHWAL

INTRODUCTION





Hello, I'm Vinayak Lathwal I recently completed an in-depth analysis of Amazon sales data, exploring trends across various product categories, customer demographics, and purchase patterns. This analysis provides valuable insights into sales performance, pricing strategies, and customer preferences, helping to better understand the dynamics of the online retail giant.







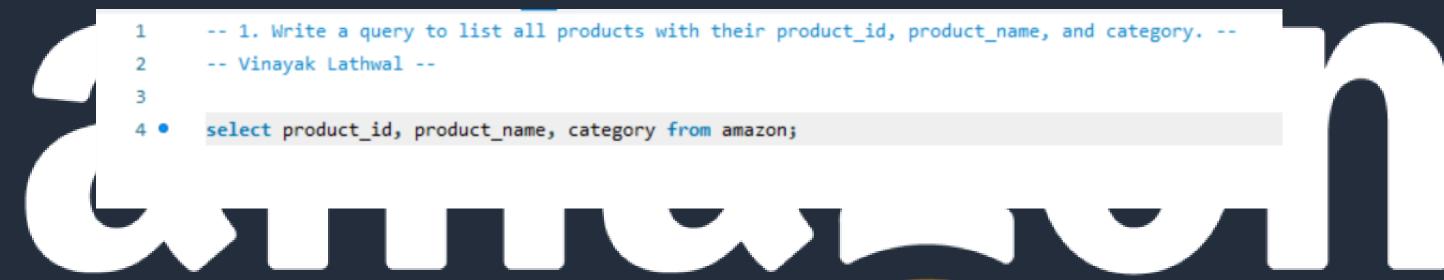
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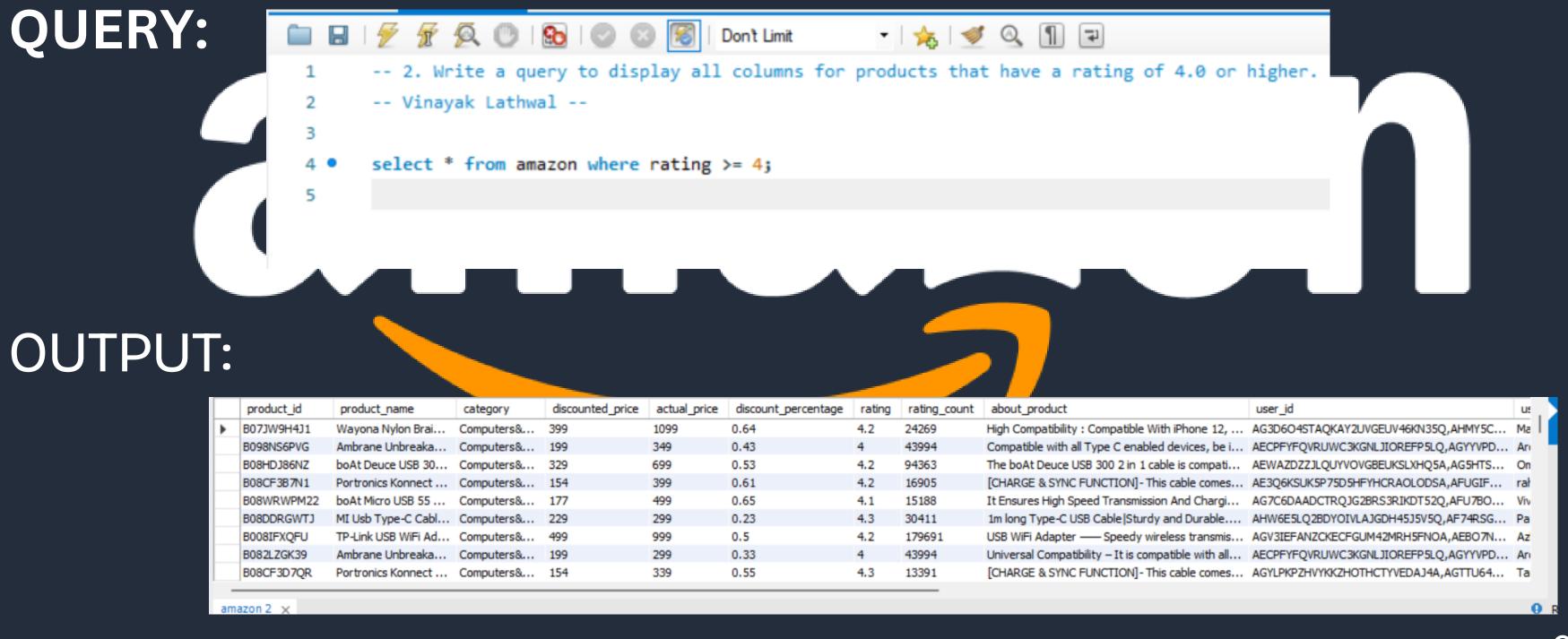
Write a query to list all products with their product_id, product_name, and category.

QUERY:

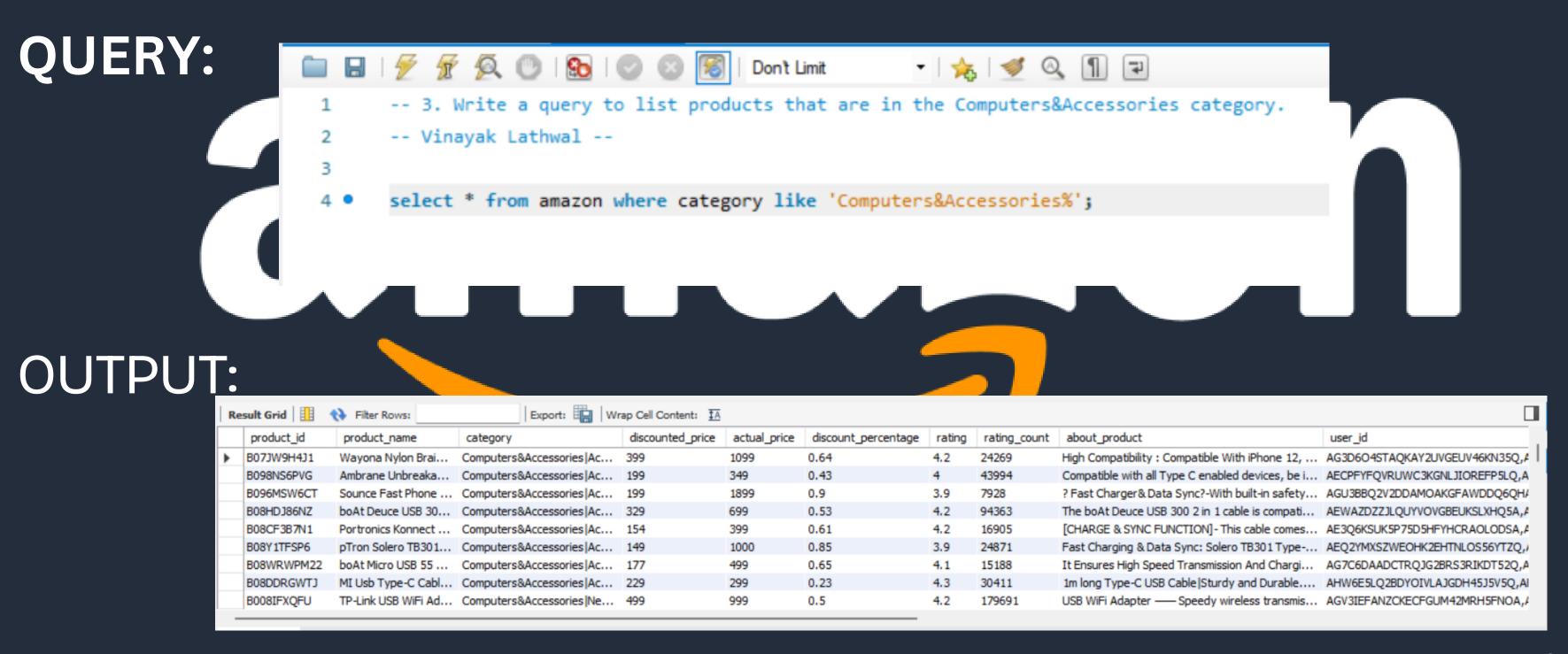


Re	sult Grid 🔠 🐧	Filter Rows: Export: Wra	p Cell Content: IA
	product_id	product_name	category
•	B07JW9H4J1	Wayona Nylon Braided USB to Lightning Fast Chargin	Computers&Accessories Accessories&P
	B098NS6PVG	Ambrane Unbreakable 60W / 3A Fast Charging 1.5m	Computers&Accessories Accessories&P
	B096MSW6CT	Sounce Fast Phone Charging Cable & Data Sync USB	Computers&Accessories Accessories&P
	B08HDJ86NZ	boAt Deuce USB 300 2 in 1 Type-C & Micro USB Stres	Computers&Accessories Accessories&P
	B08CF3B7N1	Portronics Konnect L 1.2M Fast Charging 3A 8 Pin US	Computers&Accessories Accessories&P
	B08Y1TFSP6	pTron Solero TB301 3A Type-C Data and Fast Chargi	Computers&Accessories Accessories&P
	B08WRWPM22	boAt Micro USB 55 Tangle-free, Sturdy Micro USB Cab	Computers&Accessories Accessories&P
	B08DDRGWTJ	MI Usb Type-C Cable Smartphone (Black)	Computers&Accessories Accessories&P
	B008IFXQFU	TP-Link USB WiFi Adapter for PC(TL-WN725N), N150	Computers&Accessories NetworkingDev
	B082LZGK39	Ambrane Unbreakable 60W / 3A Fast Charging 1.5m	Computers&Accessories Accessories&P
ama	azon 4 ×		

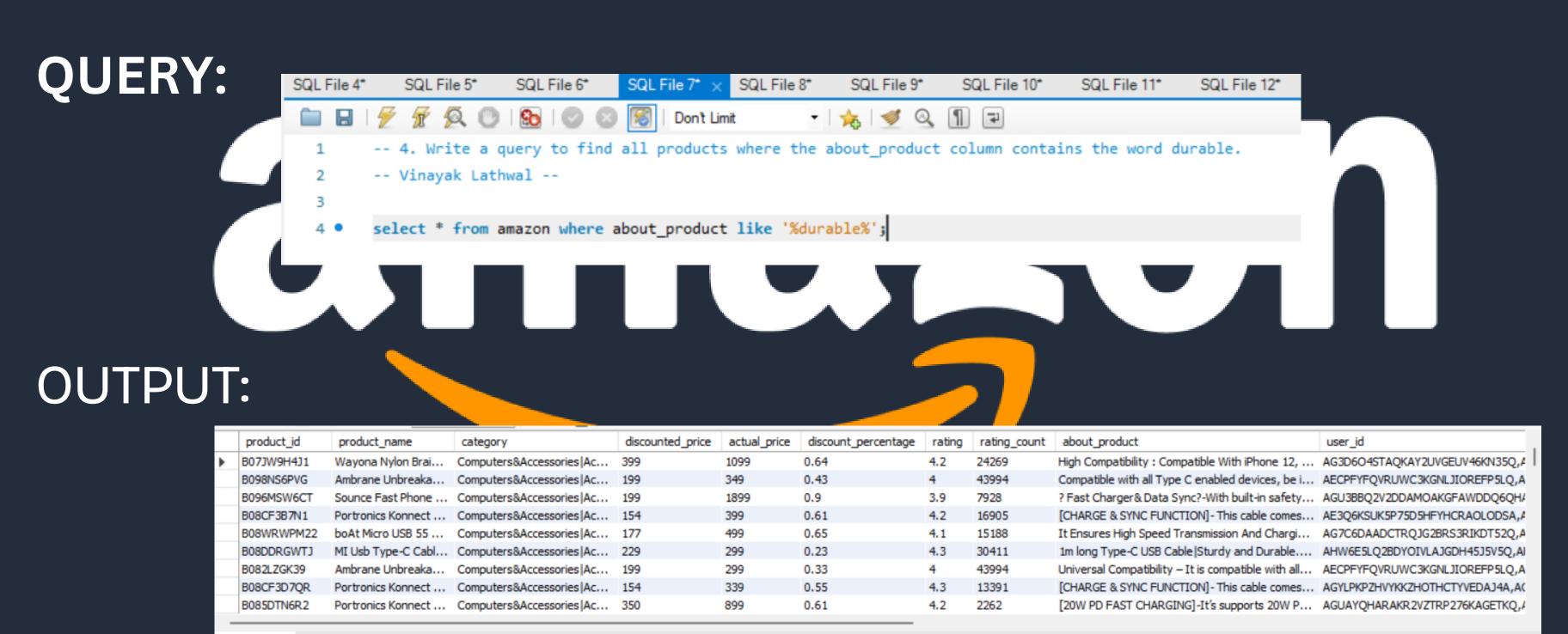
Write a query to display all columns for products that have a rating of 4.0 or higher.



Write a query to list products that are in the Computers&Accessories category.

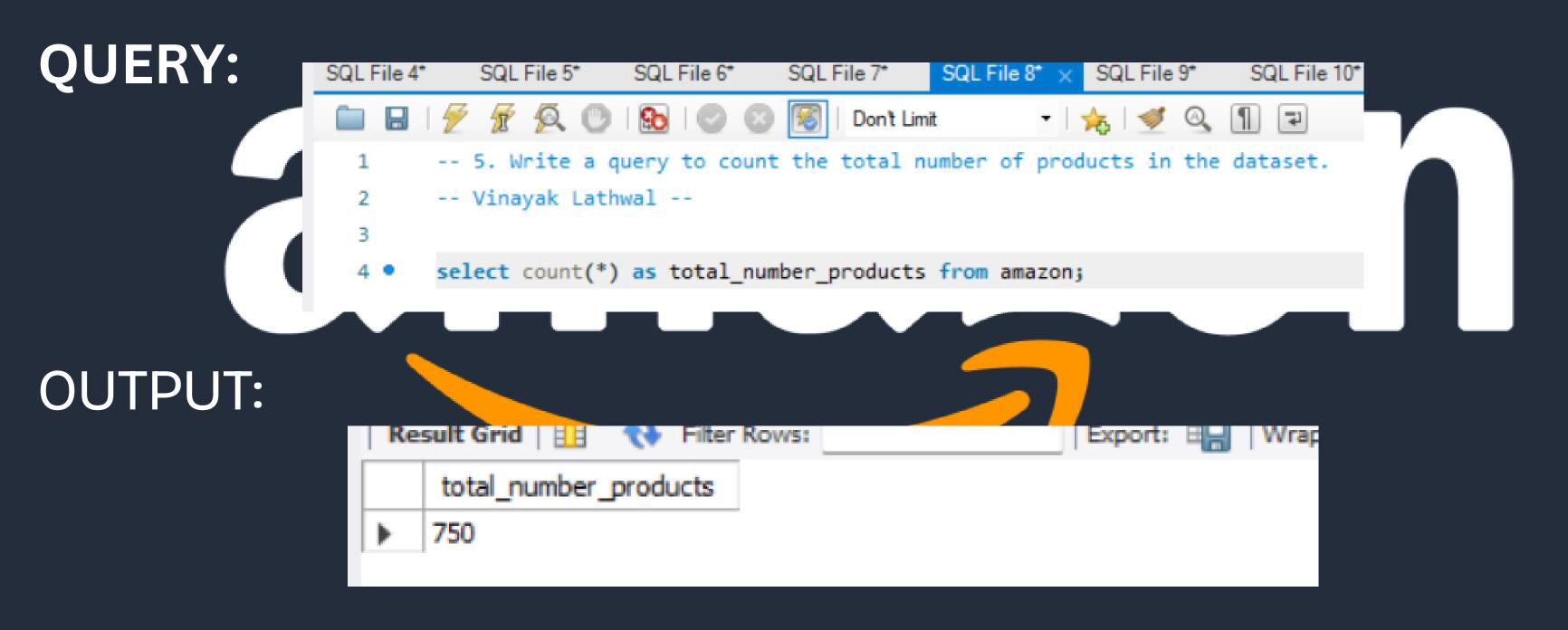


Write a query to find all products where the about_product column contains the word durable.

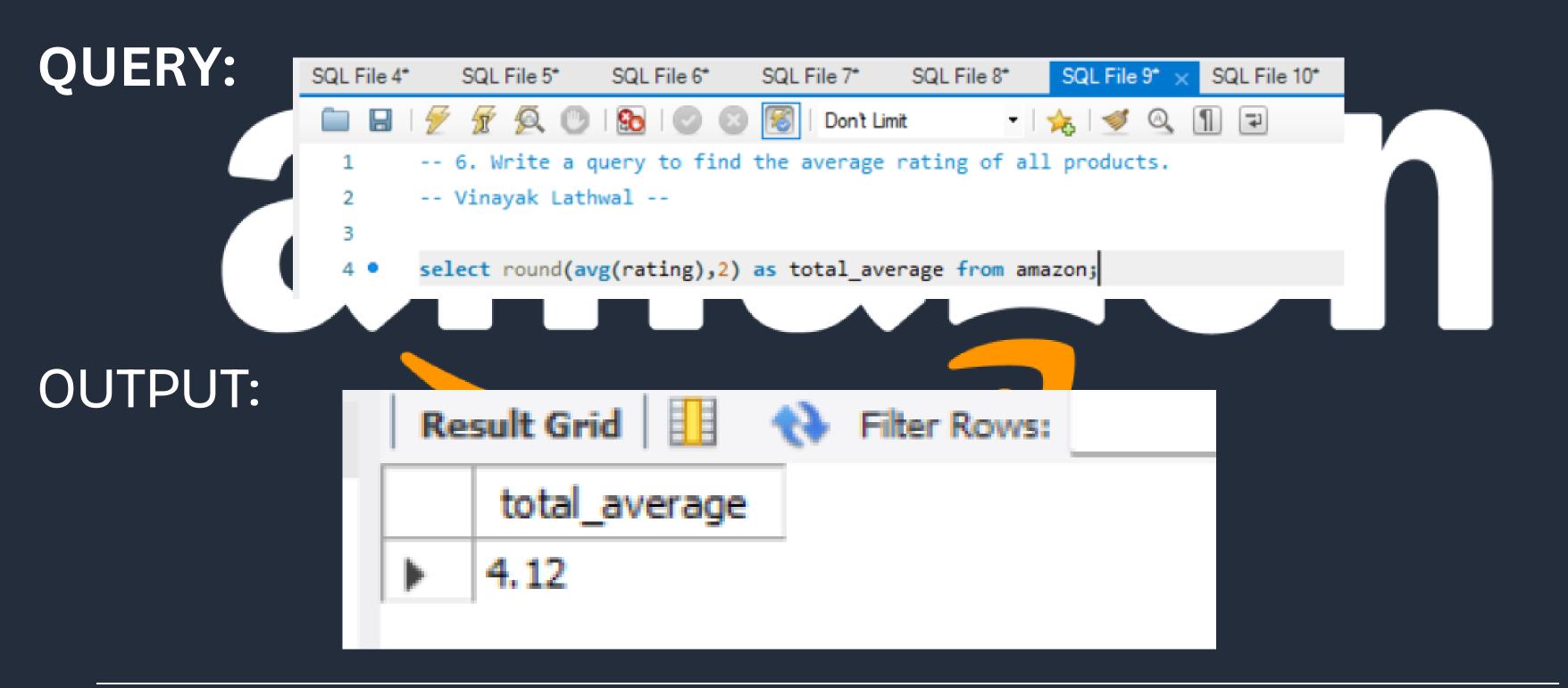


 $mazon 1 \times$

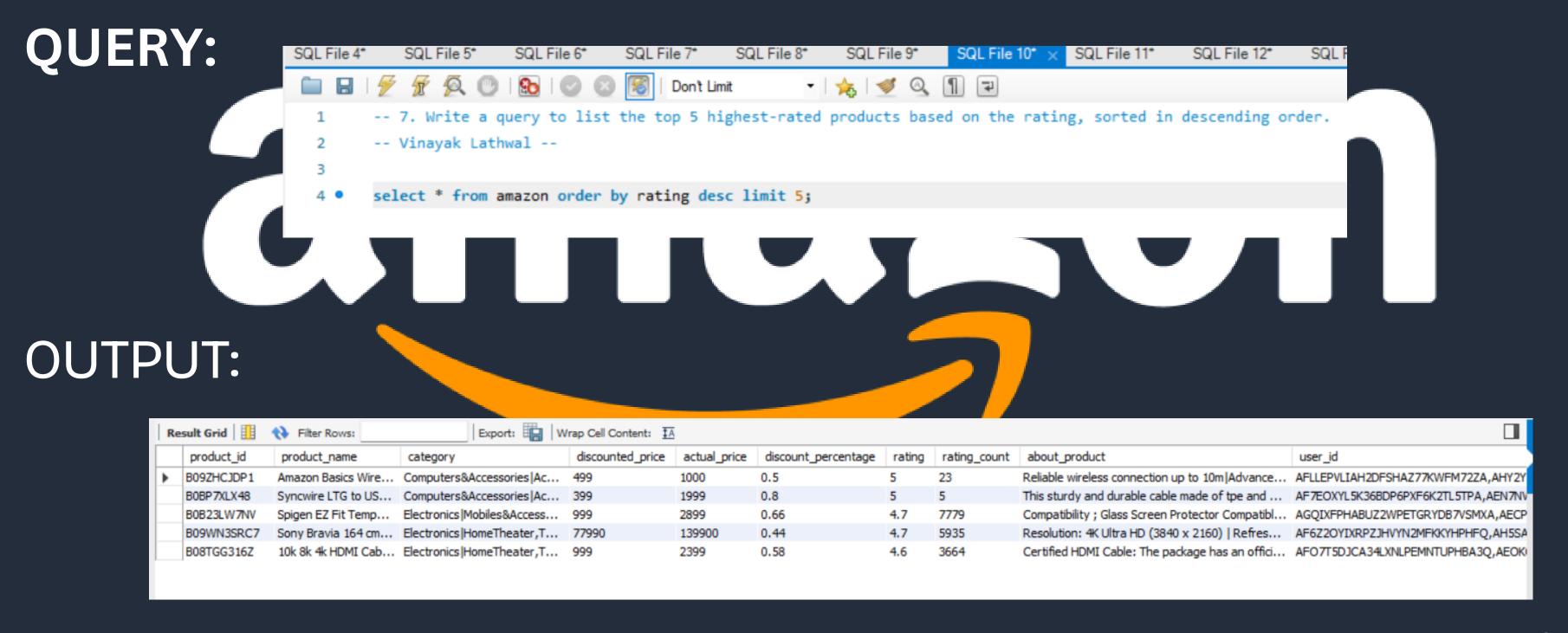
Write a query to count the total number of products in the dataset.



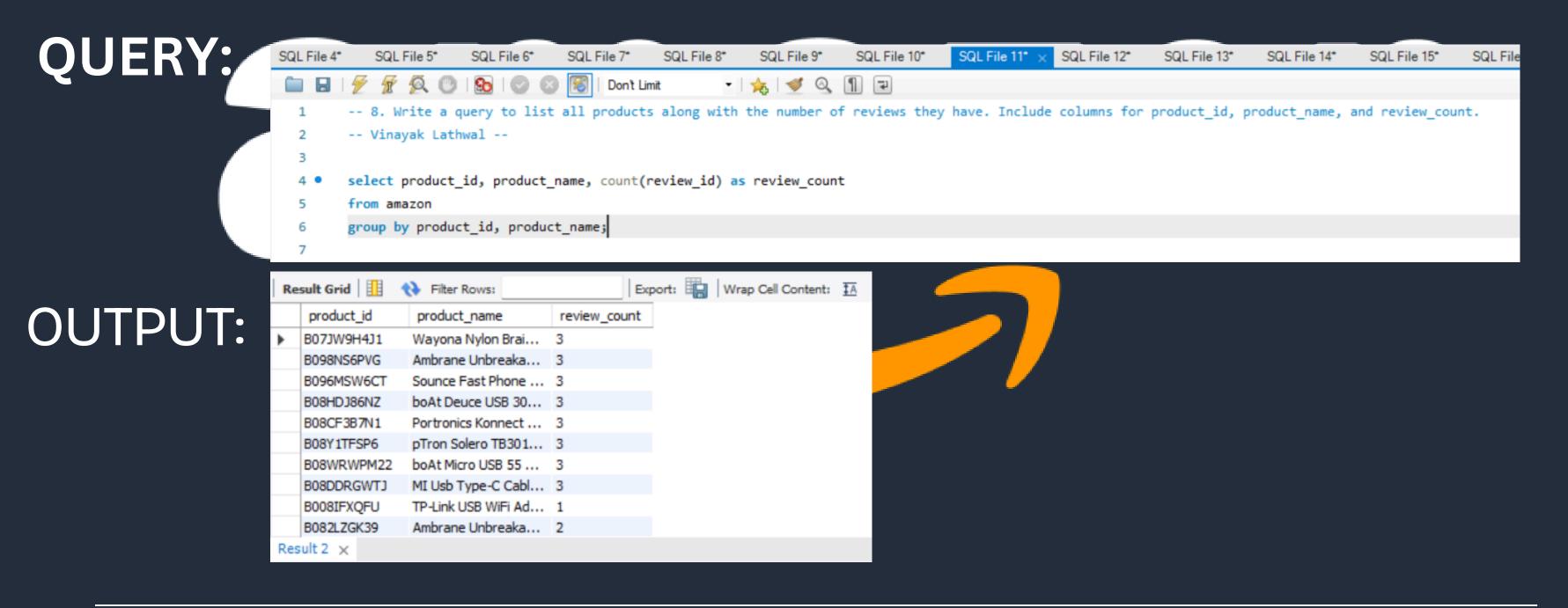
Write a query to find the average rating of all products.



Write a query to list the top 5 highest-rated products based on the rating, sorted in descending order.



Write a query to list all products along with the number of reviews they have. Include columns for product_id, product_name, and review_count.



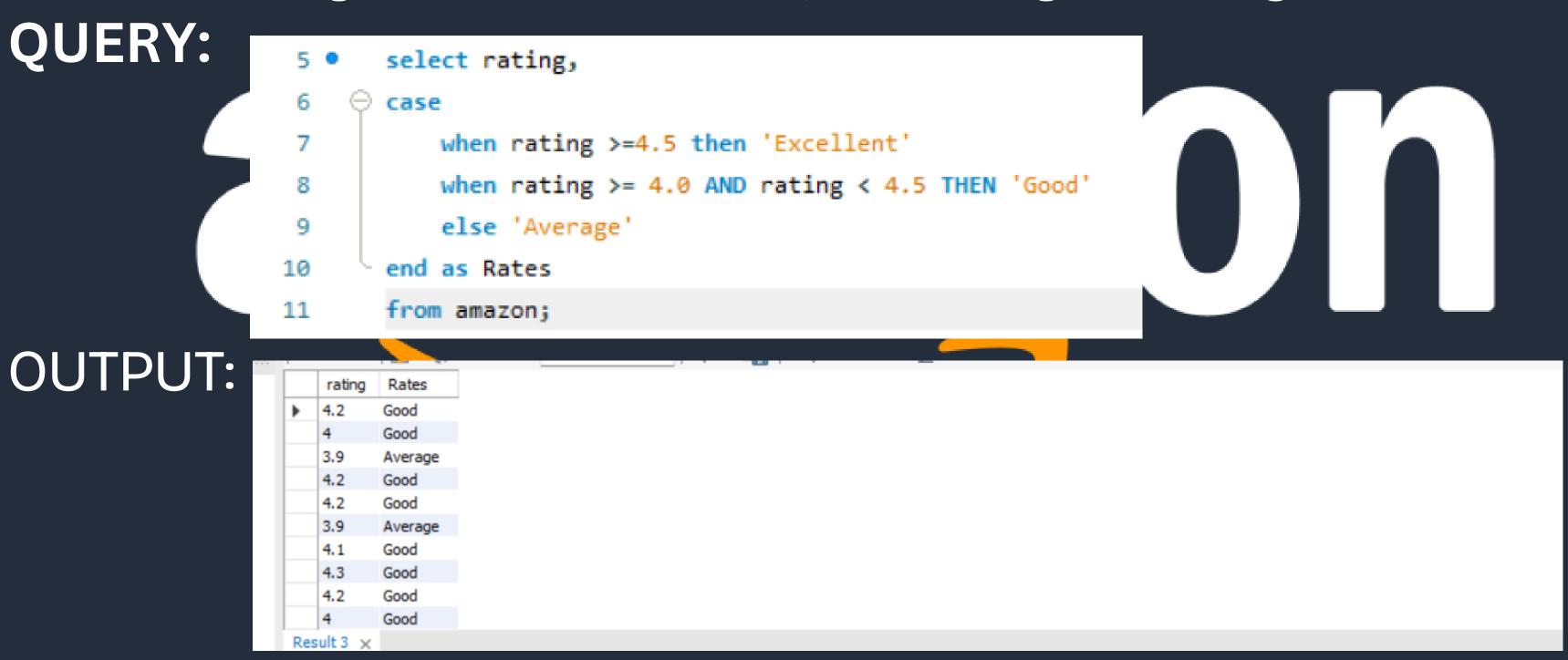
Write a query to find products that have the same rating and belong to the same category. Display product_id, product_name, category, and rating.

QUERY:

```
SQL File 4*
             SQL File 5*
                           SQL File 6*
                                         SQL File 7*
                                                       SQL File 8*
                                                                     SQL File 9*
                                                                                  SQL File 10*
                                                                                                 SQL File 11*
                                                                                                                SQL File 12*
                                                                                                                              SQL File 13*
                                                                                                                                             SQL File 14*
                                                                                                                                                            SQL File 15*
                                                                                                                                                                          SQL File 16*
             9. Write a query to find products that have the same rating and belong to the same category. Display product_id, product_name, category, and rating.
          -- Vinayak Lathwal --
         select al.product id, al.product name, al.category, al.rating
         join (select category, rating from amazon group by category, rating) a2
         on al.category = a2.category and al.rating = a2.rating;
```

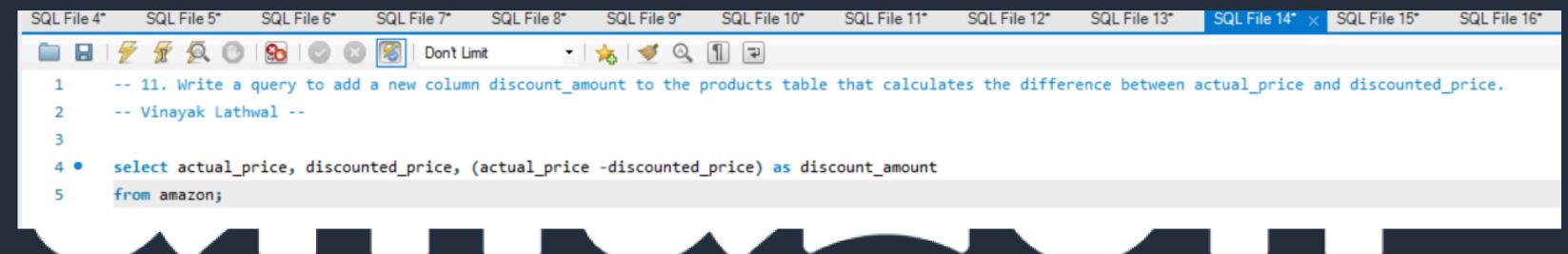
Ke	SUIT OND THE	Pilter Kows: Export: Em Wra	p Cell Content: 1M	
	product_id	product_name	category	rating
•	B07JW9H4J1	Wayona Nylon Braided USB to Lightning Fast Chargin	Computers&Accessories Accessories&P	4.2
	B098NS6PVG	Ambrane Unbreakable 60W / 3A Fast Charging 1.5m	Computers&Accessories Accessories&P	4
	B096MSW6CT	Sounce Fast Phone Charging Cable & Data Sync USB	Computers&Accessories Accessories&P	3.9
	B08HDJ86NZ	boAt Deuce USB 300 2 in 1 Type-C & Micro USB Stres	Computers&Accessories Accessories&P	4.2
	B08CF3B7N1	Portronics Konnect L 1.2M Fast Charging 3A 8 Pin US	Computers&Accessories Accessories&P	4.2
	B08Y1TFSP6	pTron Solero TB301 3A Type-C Data and Fast Chargi	Computers&Accessories Accessories&P	3.9
	B08WRWPM22	boAt Micro USB 55 Tangle-free, Sturdy Micro USB Cab	Computers&Accessories Accessories&P	4.1
	B08DDRGWTJ	MI Usb Type-C Cable Smartphone (Black)	Computers&Accessories Accessories&P	4.3
	B008IFXQFU	TP-Link USB WiFi Adapter for PC(TL-WN725N), N150	Computers&Accessories NetworkingDev	4.2
	B082LZGK39	Ambrane Unbreakable 60W / 3A Fast Charging 1.5m	Computers&Accessories Accessories&P	4
Res	sult 11 ×			

Write a query using a CASE statement to categorize products into three categories based on their rating: Excellent for ratings 4.5 and above, Good for ratings between 4.0 and 4.5, and Average for ratings below 4.0.



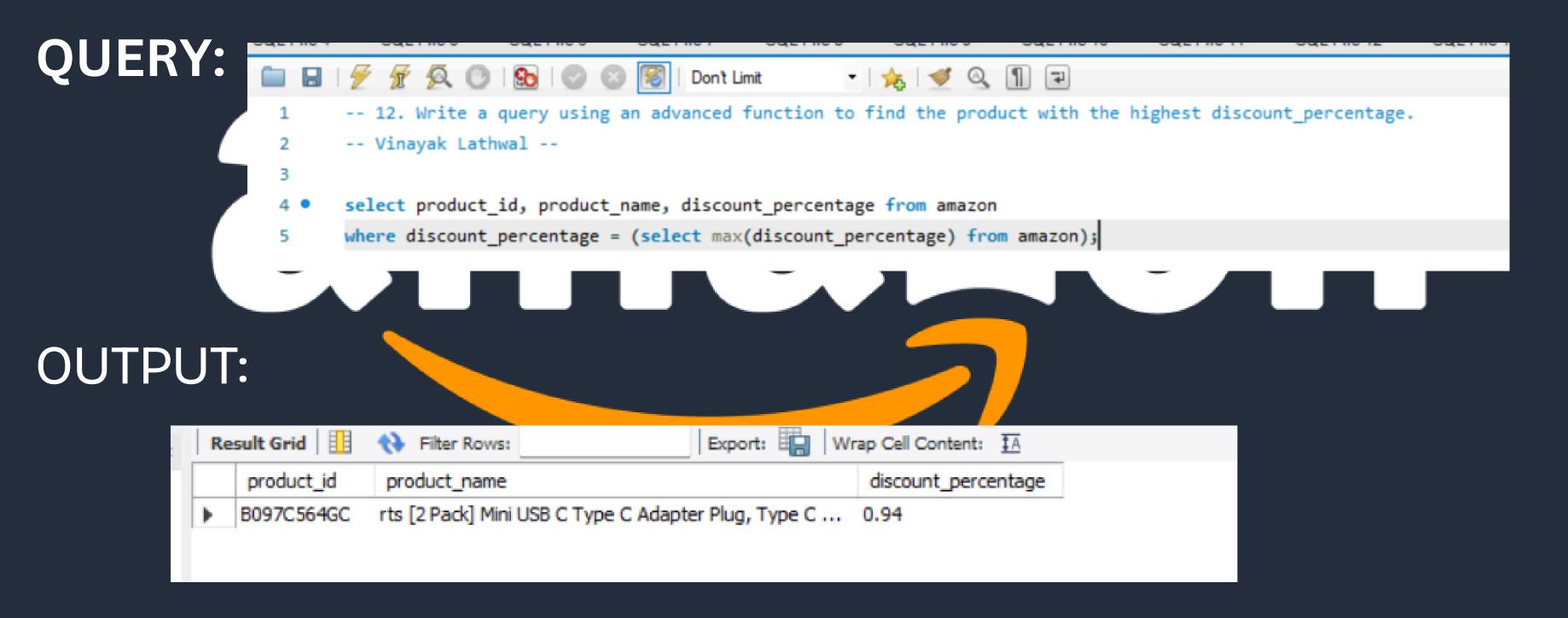
Write a query to add a new column discount_amount to the products table that calculates the difference between actual_price and discounted_price.

QUERY:



	-		
ā	actual_price	discounted_price	discount_amount
10	1099	399	700
3	349	199	150
18	1899	199	1700
6	99	329	370
3	399	154	245
10	1000	149	851
4	199	177	322
2	299	229	70
9	99	499	500
2	299	199	100
) 1 3 1 6 3 1 4 2 9	1099 349 1899 699 399 1000 499 299	1099 399 349 199 1899 199 699 329 399 154 1000 149 499 177 299 229 999 499 299 199

Write a query using an advanced function to find the product with the highest discount_percentage.



Create a view named HighRatingProducts that includes products with a rating of 4.5 and above.

QUERY:

```
-- 13. Create a view named HighRatingProducts that includes products with a rating of 4.5 and above.

-- Vinayak Lathwal --

create view HighRatingProducts as
select * from amazon where rating >= 4.5;

select * from HighRatingProducts;
```

Re	sult Grid 🛮 🔢	Filter Rows:	Export:	Wrap Cell Content: TA						
	product_id	product_name		category	discounted_price	actual_price	discount_percentage	rating	rating_count	about_product
•	B09C6HXFC1	Duracell USB Lightning Apple Certified	(Mfi) Brai	$Computers \& Accessories \\ Accessories \& Peripheral \dots$	970	1799	0.46	4.5	815	Supports Ios Devices With Max Output Up To
	B00NH11PEY	AmazonBasics USB 2.0 - A-Male to A-	Female Ex	Computers&Accessories Accessories&Peripheral	199	750	0.73	4.5	74976	One 9.8-foot-long (3 meters) USB 2.0 A-Male
	B00NH11KIK	AmazonBasics USB 2.0 Cable - A-Male	to B-Male	Computers&Accessories Accessories&Peripheral	209	695	0.7	4.5	107687	One 6-foot-long (1.8 meters) high-speed mul-
	B0B86CDHL1	oraimo 65W Type C to C Fast Chargin	ng Cable U	Computers&Accessories Accessories&Peripheral	349	899	0.61	4.5	149	???Kindly NOTE before you purchase?:This is
	BOBMXMLSMM	Lapster 65W compatible for OnePlus I	Dash Warp	$Computers \& Accessories \\ Accessories \& Peripheral \dots$	199	999	0.8	4.5	127	-1 meter type c to c cable fast charging cable
	B00V4BGDKU	TP-Link UE300 USB 3.0 to RJ45 Gigab	it Ethernet	Computers&Accessories NetworkingDevices Ne	1099	1899	0.42	4.5	22420	Fastest USB 3.0 and Gigabit solution ensure h
	B09TT6BFDX	Cotbolt Silicone Protective Case Cove	r for LG a	Electronics HomeTheater, TV&Video Accessories	399	1999	0.8	4.5	505	Silicone protective cover is specially designed
	B08TGG316Z	10k 8k 4k HDMI Cable, Certified 48Gb	ps 1ms Ult	Electronics HomeTheater, TV&Video Accessories	999	2399	0.58	4.6	3664	Certified HDMI Cable: The package has an of
	B082T6GXS5	AmazonBasics New Release Nylon US	B-A to Ligh	Computers&Accessories Accessories&Peripheral	999	2100	0.52	4.5	5492	Added Protection: An additional layer of prot

Write a query to find the category with the highest average rating for products. Use subqueries and aggregate functions to achieve this.

QUERY:

```
SQL File 4* SQL File 5* SQL File 6* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12* SQL File 13* SQL File 14* SQL File 15* SQL File 16*

-- 14. Write a query to find the category with the highest average rating for products. Use subqueries and aggregate functions to achieve this.

-- Vinayak Lathwal --

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4 • select category, avg(rating) from amazon group by category

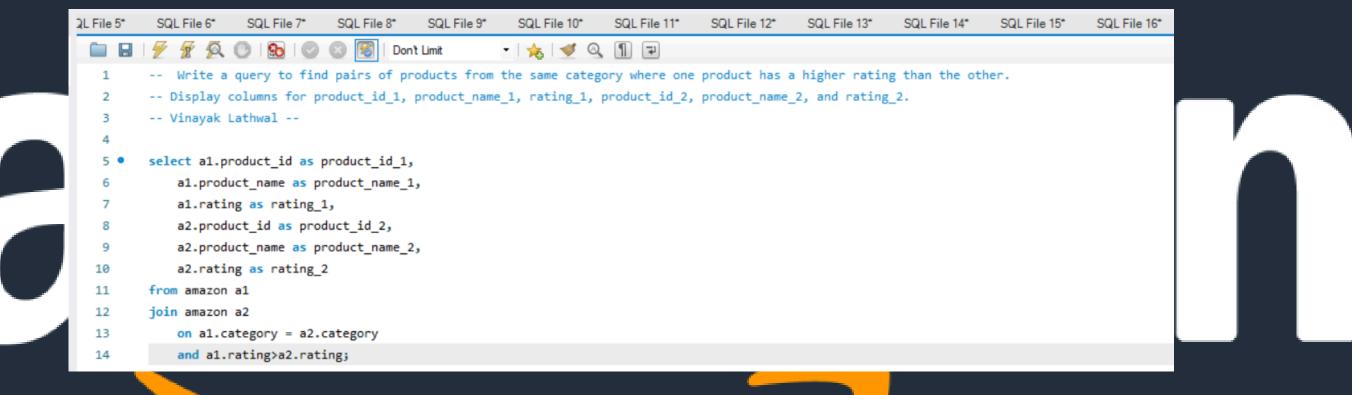
5 having avg(rating) = (select max(rating) from

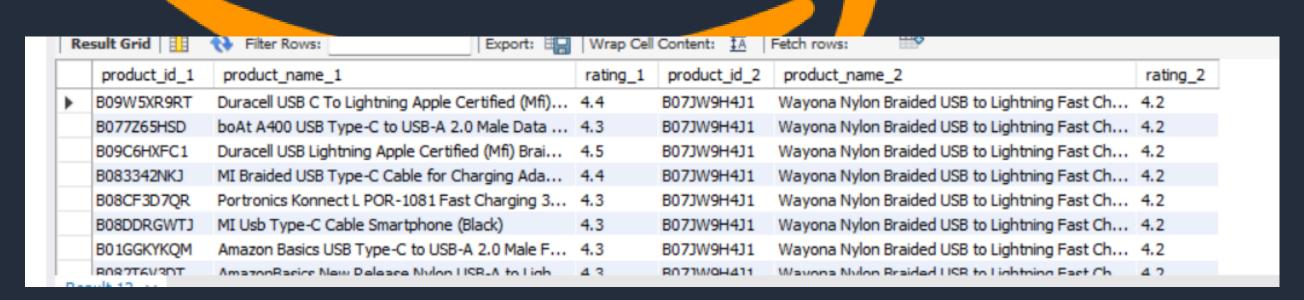
6 (select round(avg(rating),2) as rating from amazon group by category) as subquery);
```

	category	avg(rating)
-	Electronics HomeAudio MediaStreaming	4.5
	Electronics HomeTheater, TV & Video Proj	4.5
	Computers&Accessories Accessories&P	4.5
	Electronics Cameras & Photography Acc	4.5
	OfficeProducts OfficeElectronics Calcul	4.5
	Computers&Accessories Components M	4.5

Write a query to find pairs of products from the same category where one product has a higher rating than the other. Display columns for product_id_1, product_name_1, rating_1, product_id_2, product_name_2, and rating_2.

QUERY:





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