CREATE TABLE

`coral-mechanism-464902-i4.modulabs_project.amazon_cleaned` #rating에서 |을 제외한 테이블 생성

SELECT

*,CAST(rating AS FLOAT64) AS rating_flo

FROM

`coral-mechanism-464902-i4.modulabs_project.amazon`

WHERE

SAFE_CAST(rating AS FLOAT64) IS NOT NULL;

쿼리 결과				
작업 정보	결과	실행 세부정보	실행 그래프	
❸ 이문	으로 이름이	amazon_cleaned2	! 새 테이블이 생성되었습니다.	

- 추천시스템1
- 1. BEST 제품 추천 시스템
- 2. 테마: 믿고 사는 베스트 제품! 평점과 평점 수가 일정 기준(4.5/5200건) 이상을 충족하는 제품 중에서 평점과 평점 수가 좋은 순으로 제품을 추천합니다. 평점의 상위 5%값이 4.5, 평점 수의 중앙값이 5179건으로 평점이 상위 5%면서 평점 수도 중앙값 이상인 제품을 고객 만족도가 높은 베스트 제품이라고 판단해 이 조건을 충족하는 제품을 뽑아 추천합니다.

핵심 질문: 많은 사람들이 사용하고도 평점이 높은 제품은 뭘까?

주요 재료: rating, rating_flo(평점에서 │을 삭제해 float로 변환한 평점 칼럼), rating_count

3. 구현 로직

SELECT AVG(rating_flo),#평균

(SELECT PERCENTILE_CONT(rating_flo, 0.5) OVER()

FROM `coral-mechanism-464902-i4.modulabs_project.amazon_cleaned` LIMIT 1

) AS median_raing_flo #중앙값

FROM `coral-mechanism-464902-i4.modulabs_project.amazon_cleaned`

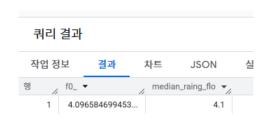
SELECT AVG(rating_flo),

(SELECT PERCENTILE_CONT(rating_flo, 0.95) OVER()

FROM `coral-mechanism-464902-i4.modulabs_project.amazon_cleaned` LIMIT 1

) AS median_raing_flo #95% 해당값

FROM `coral-mechanism-464902-i4.modulabs_project.amazon_cleaned`





SELECT

AVG(rating_count) AS avg_rating,#평균

MIN(rating_count) AS min_rating,#최소

MAX(rating_count) AS max_rating,#최대

(SELECT PERCENTILE_CONT(rating_count, 0.5) OVER() #중앙값

FROM `coral-mechanism-464902-i4.modulabs_project.amazon_cleaned`

LIMIT 1

) AS median_rating

FROM

`coral-mechanism-464902-i4.modulabs_project.amazon_cleaned`;



SELECT *

FROM `coral-mechanism-464902-i4.modulabs_project.amazon_cleaned`

WHERE rating_flo>=4.5

AND rating_count>=5200

ORDER BY rating_flo DESC

4.결과

평점 95% 구간에 해당하는 4.5 이상이면서 평점 수 중앙값 이상을 조건으로 설정해 출력한 결과,

48건의 제품이 추출되었습니다. 상품 리스트를 평점 기준 내림차순으로 배열했습니다.



A		С	D	E	P	G	н	1	3	K	L	M	N	0	P	Q	
product_id	product_name	category	discounted_prior a	ctual_price	discount_per	cen rating	rating_count	about_product	user_id	user_name	review_id	review_title	review_content	img_link	product_link	rating_flo	
B0BR4F878Q	Swiffer Instant E	Home&Kitchen	1439	1999	0	.28 4.8	53803	✓Quick Electric	AEU7DVFEL4	3) Yogita g.,Amazı	R2WHW4PEF1	Best Product,It's	Must buy best F	https://m.media	https://www.am		-
B0B23LW7NV	Spigen EZ Fit Te	Electronics)Mob	999	2899	0	.88 4.7	7779	Compatibility :	AGQIXFPHAB	U VK Siddhi Prabi	R13CIOIUD1D8	Easy to install, B	It is easy to inst	https://m.media-	https://www.am		
B09WN3SRC7				139900		.44 4.7				P2 David P., Dr. ATI							
B00NFD0ETQ	Logitech G402 F	Computers&Aco	1995	2895	0	.31 4.6	10780	HIGH SPEED 1	AFLGIDPC5G	T. Madhav Ashoka	R2W6BKEVXN	I very nice design	its really good p	https://m.media-	https://www.am		
B01MQ2A88A	Logitech M331 S		1295	1845	0	.21 4.6	12376	Quieter Click: L	AESTTPY5R4	Y Awesome Shop	R17S7JVWFH1	Good but the so	- excellent piece	https://m.media	https://www.am		
B0B244R4KB	Spigen EZ Fit Te		999	2899		.88 4.6				RI Prabhat Chaudi							
B07X2L5Z8C	Logitech Pebble	Computers&Acc	1490	2295	0	.35 4.6	10852	Modern, slim at	AGD6ND3S3N	AC Ravi, Shrey, Dee	R17OGPT2IDX	Sleek and batte	It's a good bluet	https://m.media-	https://www.am	ā	
B01J1CFO5I	Redgear MP35 :	Computers&Aco	299	550	0.	.48 4.6				DA Jayaprakash,Ke							
B095RTJH1M	Spigen EZ Fit Te	Electronics Mob	999	2899	0.	.68 4.6	28803	Compatibility ; (AFDITJCB5D4	4E Abdul Moiz,Rup	RE1RVB3YIBP	Easy to install b	I used my 13 pr	t https://m.media-	https://www.am	2	
B00K57MR22	Sujata Dynamix	Home&Kitchen)	6120	8478	0	.28 4.6	6550	Warranty: 2 year	AHNCY56JLP	Cl Amazon Custor	R2IMGTYKPM)	Best mixer, Best	Best mixer as or	https://m.media-	https://www.am		
B08C4Z69LN	Crucial RAM 8G	Computers&Acc	1792	3500	0.	.49 4.5	26194	Improve your s	AHT3PNU446	CI Riz, Akshat Neh	R3KX3LZE5DF	(FPS increased i	I installed it in m	https://m.media-	https://www.am		
B07G3YNLJB	Crucial BX500 2	Computers&Acc	1815	3100	0	.41 4.5	92928	240GB 2.5-inch	AGHW3JDEF6	BJ Shaikh Faisal,S	R34WAR6NQS	Absolutely worth	After I changed	https://m.media-	https://www.am		
B00NH13Q8W	AmazonBasics I	Computers&Acc	299	800	0	.63 4.5	74977	Two 3.3-feet (1.	(AGBX233C7B	71 Pravin Kumar,N	R1C8MVU3EIX	Nice,good,Paisa	Sufficient length	https://m.media-	https://www.am	2	
B00LZLQ824	Classmate Soft	OfficeProducts(157	160	0.	.02 4.5	8818	The cover desig	AF3GETWWB	G Anirban B.,Amit	R2QV1JD5V8C	An Overall Good	First Of all, the i	https://m.media-	https://www.am		
B0752LL57V	Casio MJ-12D 1	OfficeProducts	440	440		0 4.5	8810	Regular keys lik	AFCKVOFM46	BC Dipu,Kayumudo	R3S29FN21O2	Very easy to use	Very good, Nice	https://m.media-	https://www.am		
B00NH11KIK	AmazonBasics I	Computers&Aco	209	695		0.7 4.5	107887	One 6-foot-long	AEYHTCWWZ	Y Shiva, Uzef, kott	R2AE3BN2Y58	Functionality as	Using it and sat	i https://m.media	https://www.am		
B00NH11PEY	AmazonBasics I	Computers&Acc	199	750	0	.73 4.5	74976	One 9.8-foot-lo	AGBX233C7B	70 Pravin Kumar.N	R1C8MVU3EIX	Nice.good.Paisa	Sufficient length	https://m.media-	https://www.am		
B07R99NBVB	Gizga Essentials	Homelmorovem	249	599	0	58 4.5	5985	Gizna Essential	AEG6NCZPU	EE Dhineshkumar.	R3L1T1SL8IC3	Very useful proc	I have lot of cab	https://m.media-	https://www.am		
B0765B3TH7	Gizga Essentials		199	599	0	.67 4.5				K- Dhirendar Chris							
B0118MIKKC	Goldmedal Curv	Flectronics Moh	99	171	0	42 4 5	11336	LED indicator/T	AFIC3OFUDE	W paul Amazon C	R3MOME1SHC	Good product at	Product is just a	https://m.media-	https://www.am		
B083GKDRKR	Havells Aqua Pl	Home&Kitcheni	1625	2995	0	48 4 5				(B neerai vashisht.							
B08LT9BMPP	Logitech G102 L			1995	0	25 4.5				CE Hitesh Deenak							
B0148NPH9I	Logitech K380 V			3195		17 4 5				7F Padmanabhan I							
	Logitech M235 V			995		03 45				Mi Chandrashekar							
			2095	2095		0.4.5				04 Joydeep Bhatta							
B09X7DY7Q4	SanDisk Extrem			1800		48 4.5				V5 Aadil Fayaz Na							
B088ZFJY82	Elv Aluminium A		314	1499		.79 4.5				M Shaik John Said							
B0846D5CBP	Casio FX-991F5			1295		0.45				5C Vairala sGouth							
	ESR Screen Pro			1599		23 4.5				P Aditva Kumar A							
			269	1400		.23 4.5				M Shaik John Said							
BOOLY12TH8	Camel Oil Paste			230		0.45				Ki Javanta Himan:							
BOONH11KIK	AmazonBasics I			230 695		0.7 4.5				IVI Jayanta,Himant IYI Shiva,Uzef.kotti							
	TP-Link UE3000			1999		0.7 4.5											
	Duracell Ultra Al		1199			.15 4.5				/// MOINUL H.,Jay PK Aadi Inial A RAI							
B01DJJVFPC				315													
	TP-Link UE300			1899		.42 4.5				// MOINUL H.,Jay							
B071113J7M	Sujata Powerma			7508		.22 4.5				4T Nadia,Narinder							
B014SZO90Y	Duracell Ultra Al		266	315		.16 4.5				A Gopinathan, Pur							
B00KIE28X0	Camel Artist Acr			310		0 4.5				SF Daisy daniel,PC							
	Seagate One To			7999		.28 4.5				Qf Amazon Custor							
	Seagate Expans			4999		.18 4.5				X Pallavi Varur, An							
B01HJI0FS2	Dell MS116 100			650		.54 4.5				W. Mohammad No							
B08461VC1Z	Scarters Mouse			1995		0.5 4.5				D Abhay N.,Karan							
	SanDisk Extrem			2900		.54 4.5				A Prasad, Prajwal							
				2999		0.5 4.5				5L Subramanian M							
	Belkin Essential			1499		.14 4.5				L7 Hayat Ansari,Ba							
B00NH11PEY	AmazonBasics (Computers&Aco	199	750	0.	.73 4.5	74976	One 9.8-foot-lo	AGBX233C7B	7(Pravin Kumar,N	R1C8MVU3EIX	Nice,good,Paisa	Sufficient length	https://m.media	https://www.am		
B082T8GXS5	AmazonBasics 1	Computers&Acc	999	2100	0	.52 4.5	5492	Added Protection	AECPQWPXG	T Brian Visvasam	R2C462047AF3	Good,QUALITY	It works more th	https://m.media-	https://www.am	8	
BOONNOMYNE	AirCase Rugged	Computers&Acc	299	499		0.4 4.5	21010	Made of Thick.	1 AGK3NNXG44	4T Souradio,Naren	R3CX62IV0TSF	Super, Excellent	Still using Dealing	r https://m.media-	https://www.am	8	

- 추천시스템 2
- 1. 가심비 높은 제품 추천 시스템
- 2. 테마: 이제는 가심비다! 가성비(정가 대비 고할인율)가 높으면서 고객 만족도(평점)가 높은 제품을 선별해 가심비를 챙기는 제품을 추천합니다. 할인율이 50% 이상이며, 평점 상위 75%에 해당하는 4.3을 가심비를 만족시키는 조건으로 설정해 이를 충족시키는 제품을 추천합니다.

핵심 질문: 사람들이 만족하는 가심비 제품은?

주요 재료: rating, rating_flo, discount_percentag

3. 구현 로직

SELECT product_name, rating_rating_count,actual_price,discounted_price,discount_percentage, rating_flo FROM `coral-mechanism-464902-i4.modulabs_project.amazon_cleaned` WHERE discount_percentage >= 0.5 AND rating_flo >= 4.3 ORDER BY 6 DESC #할인율 내림차순 정렬 LIMIT 50

4. 결과

평점 75%구간에 해당하는 4.3 이상이면서 할인율 50% 이상인 제품 중, 할인율 내림차순으로 상위 50개를 추출해 정렬했습니다.



Tr	Tr	153	123	153	153	153
product_n =	rating =	rating_oou =	actual_pric=	discounter	discount_i =	rating_flo =
rts [2 Pack] Mini	4.3	4426	4999	294	0.94	4.3
LAPSTER 12pcs		305	999	99	0.9	4.4
Elv Mobile Phon	4.3	2351	599	89	0.85	4.3
Posh 1.5 Meter F	4.3	1237	999	173	0.83	4.3
Caldipree Silicon	4.3	407	2999	547	0.82	4.3
ELV Aluminum A	4.5	28978	1499	269	0.82	4.5
Fire-Boltt Phoeni	4.3	27704	9999	1999	0.8	4.3
Fire-Boitt Phoeni	4.3	27696	9999	1998	0.8	4.3
Lapster 65W cor		127	999	199	0.8	4.5
Syncwire LTG to	5.0	5	1999	399	0.8	5
LS LAPSTER Qui		87	999	199	0.8	4.3
Aquadpure Copp		124	24999	4999	0.8	4.6
Agua d pure Acti		287	24999	4999	0.8	4.5
Fire-Boitt Phoeni		27709	9999	1998	0.8	4.3
Cotbolt Silicone		505	1999	399	0.8	4.5
SYVO WT 3130 /		27139	3990	799	0.8	4.3
STRIFF PS2 01 I		42641	499	99	0.8	4.3
Fire-Boitt Phoeni		27696	9999	1999	0.8	4.3
Lapster 65W cor		127	999	199	0.8	4.5
Ely Aluminium A		28978	1499	314	0.79	4.5
Fire-Boltt Visiona		17161	17999	3999	0.78	4.3
Amazon Basics I		426973	1400	309	0.78	4.4
Robustrion Smar		5556	2499	549	0.78	4.3
Gizga Essentials		255	299	69	0.77	4.3
Dealfreez Case (4145	1499	349	0.77	4.3
STRIFF Adjustab		24791	1499	349	0.77	4.3
Gizoa Essentials		15032	499	119	0.76	4.3
Coway Professio		3837	59900	14400	0.76	4.4
Fire-Boltt Vision		17162	16999	3999	0.76	4.3
Fire-Boltt Visiona		17159	16999	3999	0.76	4.3
Newly Launched		240	8499	1999	0.76	4.3
Noise Colorfit Si		38	999	249	0.75	4.5
REDTECH USB-C		- Du	999	249	0.75	5
Cyosel Advancer		596	1199	299	0.75	4.5
POPIO Temperer		714	599	150	0.75	4.3
Storite Super Sp		112	999	249	0.75	4.3
Instant Pot Air R		3964	20049	4995	0.75	4.8
Fire-Boltt Tank 1		768	11999	2999	0.75	4.4
Samsung EVO P		140035	3999	1059	0.74	43
Amozo Ultra Hyt		1454	1799	474	0.74	43
AmazonBasics L		74976	750	199	0.74	4.5
Agaro Blaze USE		14184	595	159	0.73	4.3
ooAt Laptop, Sm		20850	999	273.1	0.73	4.3
SanDisk Ultra mi		67260	2400	649	0.73	4.5
sanoisk uma mi AmazonBasics L		74976	2400 750	199	0.73	4.4
Amazoneasics (Gadgetronics Di		63	2999	799	0.73	4.5
Proven® Copper		535	19990	5395	0.73	4.0
Provens Copper RC PRINT GI 790		1367	19990	549	0.73	4.4
AGARO Blaze US		14185	495	139	0.73	4.3
GILTON Egg Boll		629	1199	353	0.72	4.3

• 추천시스템 3

1. 핫한 카테고리 내 인기 제품 추천 시스템

2. 테마: 사람들의 선택은 믿을 수 있다. 평점이 중앙값(4.1) 이상이며, 평점도 작성된 카테고리 제품들을 추려낸 뒤, 사람들이 많이 구매한 상위 카테고리와 카테고리별 제품 수량을 조합해 탑5 카테고리를 선정했다. 탑5 카테고리별로 평점 수 기준 상위 3개 제품을 선정해 추천한다.

핵심질문: 사람들은 어떤 카테고리에 속한 제품을 주로 사며, 해당 카테고리 내 인기제품은 뭘까?

주요재료: category, rating_count, COUNT(product_id)(카테고리별 제품 수량)

3. 구현 로직

```
WITH hot_category AS (

SELECT product_id, product_name, rating, rating_count, rating_flo,ca

FROM `coral-mechanism-464902-i4.modulabs_project.amazon_cleaned`,

UNNEST(SPLIT(category, '|')) AS ca

WHERE rating_count > 0

AND rating_flo>4.1),

top5_categories AS (

SELECT_ca_COLINT(product_id) AS product_cat
```

SELECT ca, COUNT(product_id) AS product_cnt
FROM hot_category
GROUP BY ca
ORDER BY product_cnt DESC
LIMIT 5)

SELECT t5.ca AS t5_category,hc.product_name,hc.product_id,hc.rating_flo,hc.rating_count, t5.product_cnt FROM hot_category AS hc JOIN top5_categories AS t5

ON hc.ca = t5.ca

QUALIFY

ROW_NUMBER() OVER (PARTITION BY hc.ca ORDER BY hc.rating_count DESC) <= 3 ORDER BY

t5.product_cnt DESC, hc.rating_flo DESC, t5.ca;

4. 결과

CTE로 탑5카테고리, 조건(평점 4.1 초과, 평점 수 0개 초과) 을 만족하는 제품 리스트를 임시테이블로 생성하고 병합해 탑5 카테고리에 해당하는 제품 리스트를 생성했다. 평점 작성 수가 제품 판매수량을 대체할 수 있다고 생각해 탑5카테고리별로 평점 작성 수로 상위 3개 제품을 선정했다. 상위 3개 제품을 카테고리별 제품 수량 내림차순, 평점 내림차순, 카테고리 오름차순으로 우선순위를 지정해 정렬했다.



t5_category	product_name	product_id	rating_flo	rating_count	product_cnt
Computers&Accessories	SanDisk Cruzer Blade 32GB USB Flash Drive	B005FYNT3G	4.3	253105	253
Computers&Accessories	SanDisk Ultra Dual 64 GB USB 3.0 OTG Pen Drive (Black)	B01N6LU1VF	4.3	189104	253
Computers&Accessories	TP-Link Nano USB WiFi Dongle 150Mbps High Gain Wireless Network Wi-Fi Adapter for PC Desktop and Laptops, Supports Windows 10/8.1/8/7/XP, Linux, Mac OS X (TL-WN722N)	B002SZEOLG	4.2	179692	253
Electronics	Amazon Basics High-Speed HDMI Cable, 6 Feet - Supports Ethernet, 3D, 4K video,Black	B014I8SSD0	4.4	426973	235
Electronics	AmazonBasics Flexible Premium HDMI Cable (Black, 4K@60Hz, 18Gbps), 3-Foot	B07KSMBL2H	4.4	426973	235
Electronics	Amazon Basics High-Speed HDMI Cable, 6 Feet (2- Pack),Black	B014I8SX4Y	4.4	426973	235
Accessories&Peripherals	AmazonBasics USB 2.0 Cable - A-Male to B-Male - for Personal Computer, Printer- 6 Feet (1.8 Meters), Black	BOONH11KIK	4.5	107686	202
Accessories&Peripherals	AmazonBasics USB 2.0 Cable - A-Male to B-Male - for Personal Computer,	B00NH11KIK	4.5	107687	202

	Printer- 6 Feet (1.8 Meters), Black				
Accessories&Peripherals	boAt Deuce USB 300 2 in 1 Type-C & Micro USB Stress Resistant, Tangle-Free, Sturdy Cable with 3A Fast Charging & 480mbps Data Transmission, 10000+ Bends Lifespan and Extended 1.5m Length(Martian Red)	B08HDJ86NZ	4.2	94364	202
Home&Kitchen	Swiffer Instant Electric Water Heater Faucet Tap Home-Kitchen Instantaneous Water Heater Tank less for Tap, LED Electric Head Water Heaters Tail Gallon Comfort(3000W) ((Pack of 1))	B0BR4F878Q	4.8	53803	169
Home&Kitchen	Bajaj DX-7 1000W Dry Iron with Advance Soleplate and Anti-bacterial German Coating Technology, White	B008YW8M0G	4.2	46647	169
Home&Kitchen	Bajaj Rex 500W Mixer Grinder with Nutri-Pro Feature, 3 Jars, White	B00HVXS7WC	4.2	41349	169
Cables	Amazon Basics High-Speed HDMI Cable, 6 Feet (2- Pack),Black	B014I8SX4Y	4.4	426973	149
Cables	Amazon Basics High-Speed HDMI Cable, 6 Feet - Supports Ethernet, 3D, 4K video,Black	B014I8SSD0	4.4	426973	149
Cables	AmazonBasics Flexible Premium HDMI Cable (Black, 4K@60Hz, 18Gbps), 3-Foot	B07KSMBL2H	4.4	426973	149

- 추천시스템 4
- 1. 구매 패턴 유사 사용자 리뷰기반 추천 시스템
- 2. 테마: 특정 제품에 관심 있는 사람들의 구매 패턴은 비슷할 것이다. 특정 제품에 리뷰를 남긴 사람들의 리뷰 작성 기록을 추적해 특정 제품 잠재 구매고객에게 그 제품 리뷰 작성자들이 리뷰를 남긴 다른 상품도 추천한다.

핵심질문: 특정 제품을 산 사람들은 어떤 제품을 살까?

주요재료: product_id, user_id

3. 구현 로직

```
WITH uppair AS (
SELECT product_id, product_name, user_id_split
FROM `coral-mechanism-464902-i4.modulabs_project.amazon_cleaned`,
UNNEST(SPLIT(user_id, ',')) AS user_id_split),
tu AS (
SELECT DISTINCT user_id_split
FROM uppair
WHERE product_id = 'B01N6LU1VF'#3번 로직의 2번째 제품을 타깃 제품으로 설정
)
SELECT
```

```
uppair.product_name,
COUNT(*) AS co_purchase_count,
uppair.product_id
FROM uppair
JOIN tu
ON uppair.user_id_split = tu.user_id_split
WHERE uppair.product_id != 'B01N6LU1VF'#리뷰 중에서 타깃 제품 리뷰는 제외
GROUP BY uppair.product_name, uppair.product_id
ORDER BY co_purchase_count DESC
```

4. 결과

상품코드 'B01N6LU1VF'인 샌디스크 듀얼 64기가 USB에 리뷰를 남긴 사람들이 리뷰를 남긴 제품은 전체 6개다. 아마존베이직 USB 급속충전 케이블이 2건, 필립스 스팀 다리미 1건, 젠하이저 무선 헤드폰 1건 등이다.



Amazonbasics Micro Usb Fast Charging Cable For Android Smartphone, Personal Computer, Printer With Gold Plated Connectors (6 Feet, Black)	2	B07232M876
Phillips GC1905 1440-Watt Steam Iron with Spray (Blue)	1	B008QTK47Q
Sennheiser CX 80S in-Ear Wired Headphones with in-line One-Button Smart Remote with Microphone Black	1	B083T5G5PM
AmazonBasics Micro USB Fast Charging Cable for Android Phones with Gold Plated Connectors (3 Feet, Black)	1	B0711PVX6Z
Bajaj DX-7 1000W Dry Iron with Advance Soleplate and Anti-bacterial German Coating Technology, White	1	B008YW8M0G
Western Digital WD 2TB My Passport Portable Hard Disk Drive, USB 3.0 with Automatic Backup, 256 Bit AES Hardware Encryption, Password Protection, Compatible with Windows and Mac, External HDD-Black	1	B07VTFN6HM

• 추천시스템5

1. 가격대별 BEST 상품 추천

2. 테마: 고객들의 주머니 사정은 다르다. 할인가를 저가, 중저가, 중가, 중고가, 고가 다섯 구간으로 구분해 고객이 생각하는 예산대 별로 베스트 상품 3개를 추천한다. 베스트 상품은 평점과 평점 수를 이용 선정한다.

3. 구현 로직

```
WITH priced AS (
SELECT

product_id, product_name, discounted_price,
rating_flo, rating_count,
NTILE(5) OVER (ORDER BY discounted_price) AS price_tier
FROM `coral-mechanism-464902-i4.modulabs_project.amazon_cleaned`
WHERE rating_count > 0
),
priced_labeled AS (
SELECT
```

```
CASE price_tier
   WHEN 1 THEN '저가'
   WHEN 2 THEN '중저가'
   WHEN 3 THEN '중가'
   WHEN 4 THEN '중고가'
   WHEN 5 THEN '고가'
 END AS price_segment
FROM priced
SELECT price_segment, price_tier,product_id,product_name,
discounted_price,rating_flo,rating_count
FROM priced_labeled
QUALIFY
ROW_NUMBER() OVER (
 PARTITION BY price_tier
  ORDER BY rating_flo DESC, rating_count DESC
) <= 3
ORDER BY
 price_tier,
 rating_flo DESC,
 rating_count DESC;
```

4. 결과

할인가를 저가, 중저가, 중가, 중고가, 고가 5개 구간으로 나누고, 5개 구간별로 평점, 평점 수를 기준으로 상위 3개 제품을 추출했다. 가격 구간 오름차순, 평점과 평점 수 내림차순을 우선순위순으로 가격구간대별 제품리스트를 정렬하였다.



price_segment	price_tier	product_id	product_name	discounted_price	rating_flo	rating_count
저가	1	B00SH18114	Ikea 903.391.72 Polypropylene Plastic Solid Bevara Sealing Clip (Multicolour) - 30 Pack, Adjustable	160	4.6	2781
저가	1	B00NH11KIK	AmazonBasics USB 2.0 Cable - A-Male to B- Male - for Personal Computer, Printer- 6 Feet (1.8 Meters), Black	209	4.5	107687

저가	1	B00NH11KIK	AmazonBasics USB 2.0 Cable - A-Male to B- Male - for Personal Computer, Printer- 6 Feet (1.8 Meters), Black	209	4.5	107686
중저가	2	B09ZHCJDP1	Amazon Basics Wireless Mouse 2.4 GHz Connection, 1600 DPI Type - C Adapter Upto 12 Months of Battery Life Ambidextrous Design Suitable for PC/Mac/Laptop	499	5	23
중저가	2	B0BP7XLX48	Syncwire LTG to USB Cable for Fast Charging Compatible with Phone 5/ 5C/ 5S/ 6/ 6S/ 7/8/ X/XR/XS Max/ 11/12/ 13 Series and Pad Air/Mini, Pod & Other Devices (1.1 Meter, White)	399	5	5
중저가	2	B0BQ3K23Y1	Oratech Coffee Frother electric, milk frother electric, coffee beater, cappuccino maker, Coffee Foamer, Mocktail Mixer, Coffee Foam Maker, coffee whisker electric, Froth Maker, coffee stirrers electric, coffee Blender, (6 Month Warranty) (Multicolour)	279	4.8	28
중가	3	B0B23LW7NV	Spigen EZ Fit Tempered Glass Screen Protector for iPhone 14 Pro Max - 2 Pack (Sensor Protection)	999	4.7	7779
중가	3	B0BM9H2NY9	Multifunctional 2 in 1 Electric Egg	699	4.7	2300

			Boiling Steamer Egg Frying Pan Egg Boiler Electric Automatic Off with Egg Boiler Machine Non- Stick Electric Egg Frying Pan- Tiger Woods (Multy)			
중가	3	B0BM4KTNL1	FIGMENT Handheld Milk Frother Rechargeable, 3-Speed Electric Frother for Coffee with 2 Whisks and Coffee Decoration Tool, Coffee Frother Mixer, CRESCENT ENTERPRISES VRW0.50BK (A1)	699	4.7	1729
중고가	4	B0BR4F878Q	Swiffer Instant Electric Water Heater Faucet Tap Home- Kitchen Instantaneous Water Heater Tank less for Tap, LED Electric Head Water Heaters Tail Gallon Comfort(3000W) ((Pack of 1))	1439	4.8	53803
중고가	4	B0BP89YBC1	Campfire Spring Chef Prolix Instant Portable Water Heater Geyser 1Ltr. for Use Home Stainless Steel Baking Rack Restaurant Office Labs Clinics Saloon with Installation Kit (With MCB)	1499	4.7	2591
중고가	4	B01MQ2A86A	Logitech M331 Silent Plus Wireless Mouse, 2.4GHz with USB Nano Receiver, 1000 DPI Optical Tracking, 3	1295	4.6	12375

			Buttons, 24 Month Life Battery, PC/Mac/Laptop - Black			
고가	5	B0B53DS4TF	Instant Pot Air Fryer, Vortex 2QT, Touch Control Panel, 360° EvenCrisp™ Technology, Uses 95 % less Oil, 4-in-1 Appliance: Air Fry, Roast, Bake, Reheat (Vortex 1.97Litre, Black)	4995	4.8	3964
고가	5	B09WN3SRC7	Sony Bravia 164 cm (65 inches) 4K Ultra HD Smart LED Google TV KD- 65X74K (Black)	77990	4.7	5935
고가	5	B00K57MR22	Sujata Dynamix DX Mixer Grinder, 900W, 3 Jars (White)	6120	4.6	6550