



VIVINO

와인 데이터 수집 및 분석



CONTENT

01 | 주제선정

02 | 테이블설계

03 | 데이터확인
- 웹스크래핑

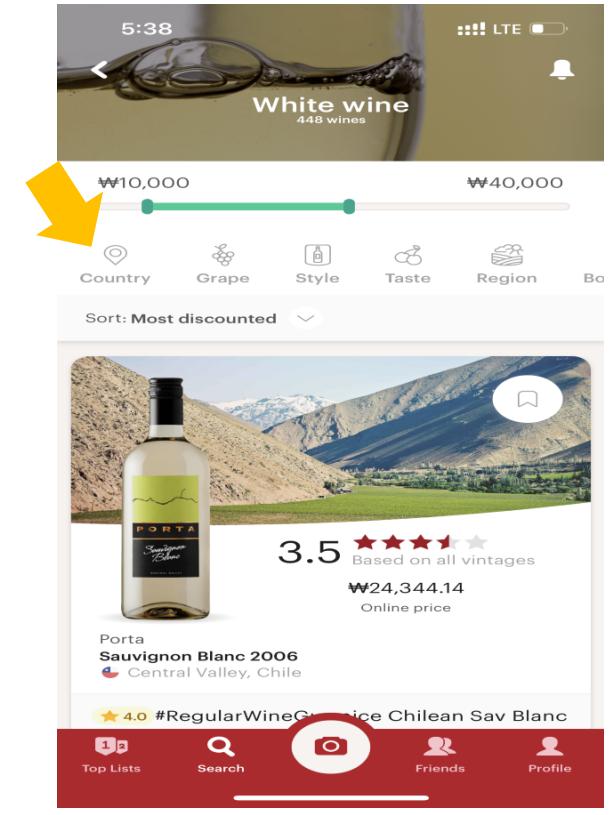
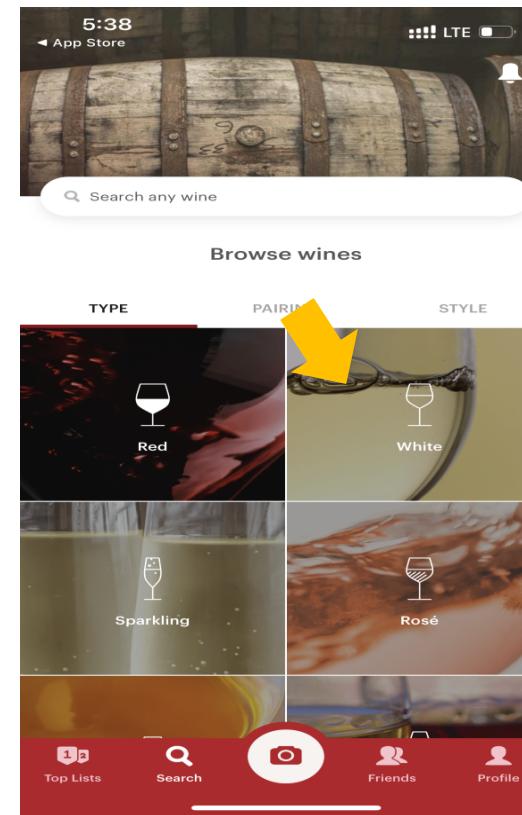
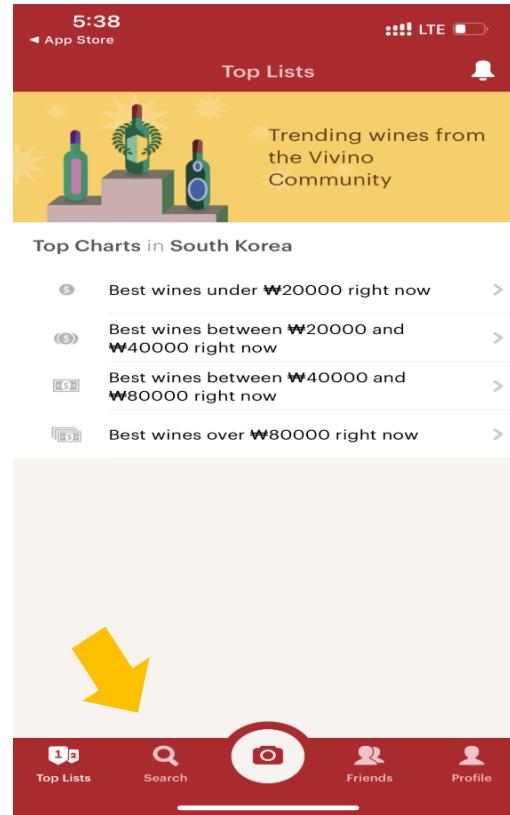
04 | 분석결과



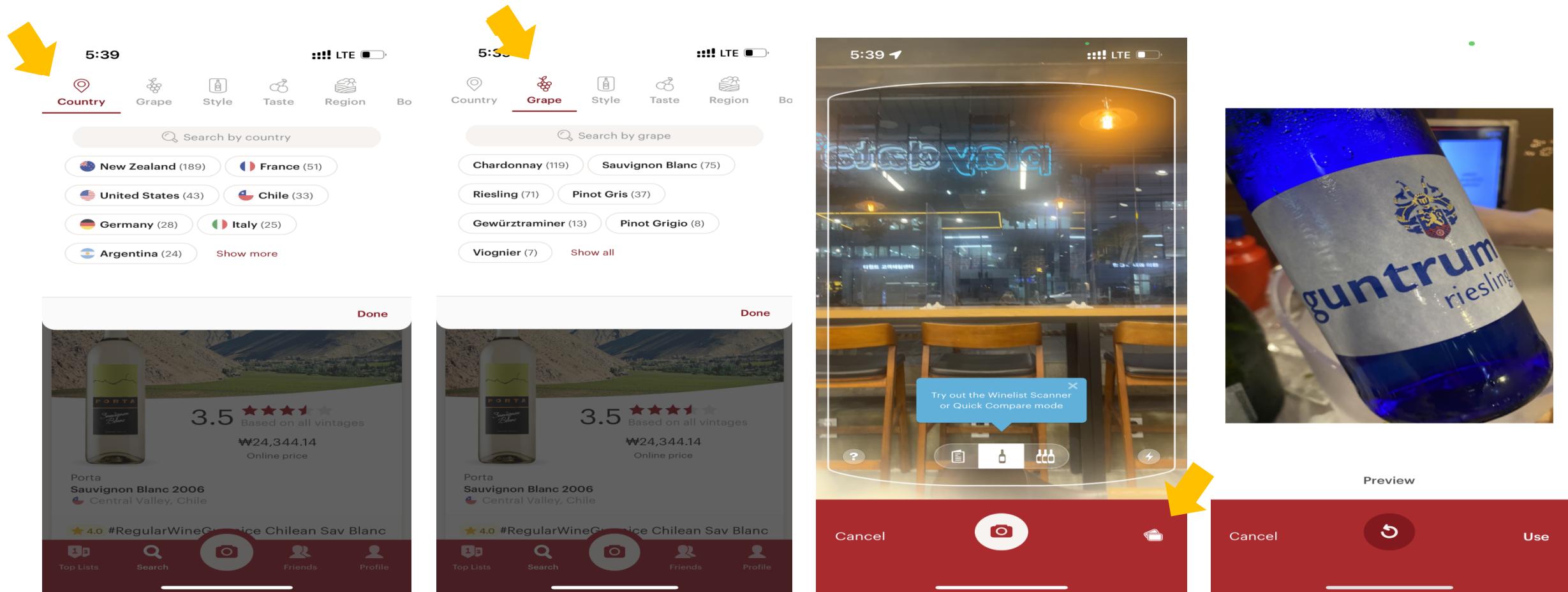
주제 선정

What is 'VIVINO'? 와인계의 넷플릭스!

- 비비노는 온라인 와인 마켓플레이스로 사람들이 다양한 와인을 구매하고 마셨던 와인들의 기록을 확인할 수 있는 와인 전용 앱입니다. 비비노는 처음 덴마크 코펜하겐에서 설립되었으며 2011년부터 iPhone 및 Android용 앱을 출시했습니다. 그 이후로 Vivino는 성장을 위해 여러 차례 투자를 받아 현재 1,300만 이상의 다양한 와인과 5,000만 이상의 사용자가 포함된 데이터베이스를 보유하는 회사로 성장했습니다.



What is 'VIVINO'?



와인 라벨을 카메라로 찍고 전송 **or** 기존 사진을 전송하면

What is 'VIVINO'?

해당 와인의 유저들의 평점, 가격, 이름, 품종, 노트 및 리뷰들을 한꺼번에 볼 수 있음

5:44

LTE

guntrum riesling |

3.8 ★★★★☆ 718 ratings

Calculate your personal match

₩15,245 Based on prices from Vivino users

Add your rating

Louis Guntrum Riesling 2019

White wine from Rheinhessen, Germany

Actions Share

Top Lists Search Friends Profile

5:59

Louie Guntrum Riesling 2019

Summary

Highlights Facts

Among top 7% of all wines in the world

You haven't tried this style yet. Try something new!

Taste characteristics

Based on 632 user reviews

Light → Bold

Dry → Sweet

Soft → Acidic

WHAT PEOPLE TALK ABOUT

Green apple, apple, melon
324 mentions of tree fruit notes

Citrus, lemon, lime
177 mentions of citrus fruit notes

Honey, minerals, stone
144 mentions of earthy notes

Show more

Top Lists Search Friends Profile

5:59

Louie Guntrum Riesling 2019

Reviews

Add a new review

Helpful Recent

4.0 nose : green apple, honey, lemon, pear taste : pleasantly acidic, very fresh, honey, apple... [read more](#)

H8 Gil (428 ratings) Last year

Green apple, Floral, lime, apple peel. Good balance sweetness & bitterness. Very light body. Easy to drink w. spicy asian food, chicken, cream shrimp.

희환 김 (144 ratings) 2 years ago

It's a great Germany riesling

Top Lists Search Friends Profile

테이블 설계

Table

Field	Type	Null	Key	Default	Extra
wine_no	int	NO	PRI	NULL	auto_increment
name	varchar(100)	NO	PRI	NULL	
price	int	YES		NULL	
rating	float	YES		NULL	
review	int	YES		NULL	

```
CREATE TABLE wine ( /*1.와인넘버,2.와인명, 3.가격, 4.평점 5.후기*/
    wine_no INT NOT NULL AUTO_INCREMENT,
    name VARCHAR(100) ,
    price INT,
    rating FLOAT
    PRIMARY KEY(wine_no,name));
```

Field	Type	Null	Key	Default	Extra
name	varchar(100)	NO	PRI	NULL	
country	varchar(20)	YES		NULL	
city	varchar(20)	YES		NULL	

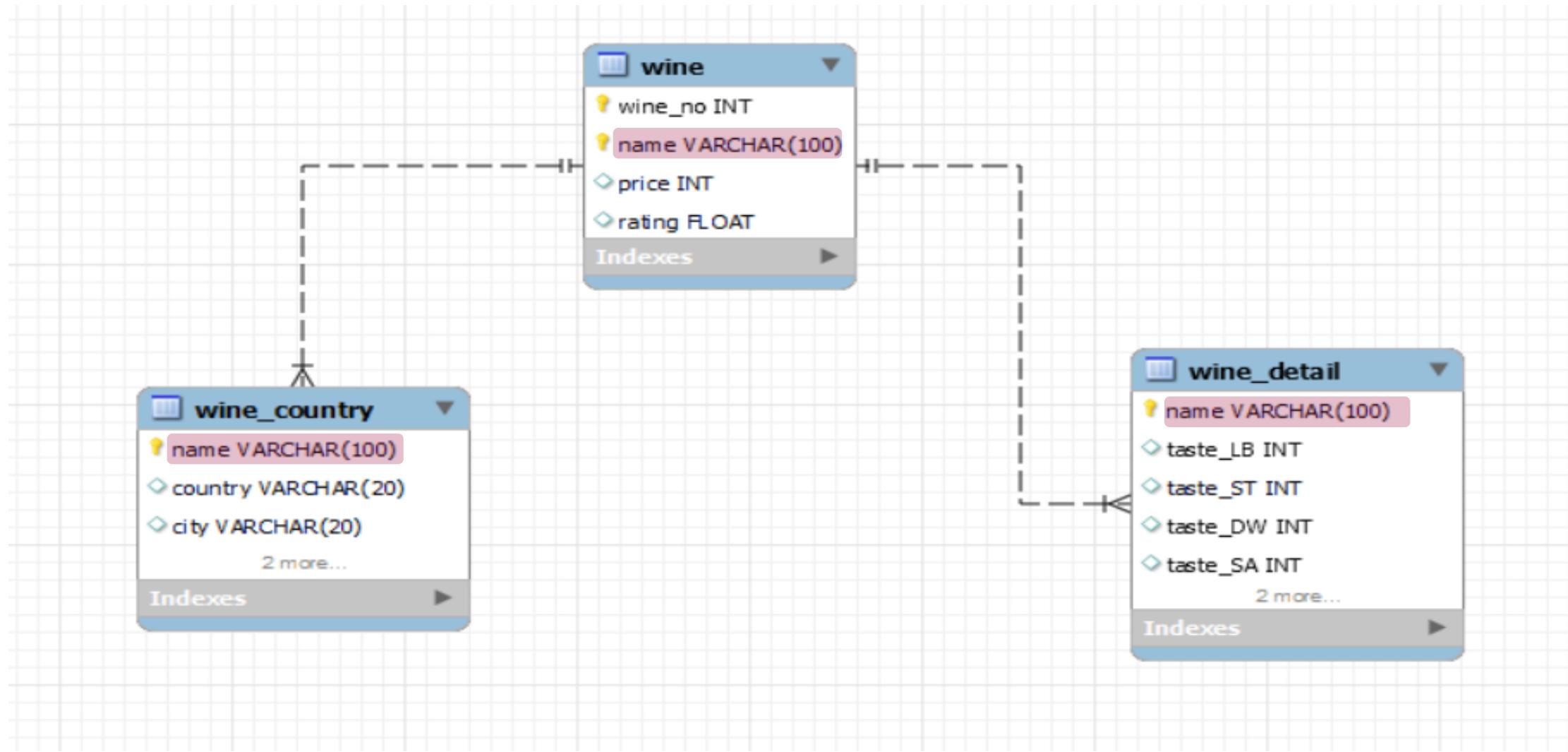
```
CREATE TABLE wine_country ( /*1.와인명,2.나라,3.도시/
    name VARCHAR(100),
    country VARCHAR(20),
    city VARCHAR(20),
    PRIMARY KEY(name));
```

Field	Type	Null	Key	Default	Extra
name	varchar(100)	NO	PRI	NULL	
taste_LB	float	YES		NULL	
taste_ST	float	YES		NULL	
taste_DW	float	YES		NULL	
taste_SA	float	YES		NULL	

```
CREATE TABLE wine_detail ( /*1.와인명,2.맛,3.맛,4.맛,5.맛*/
    name VARCHAR(100) ,
    taste_LB INT,
    taste_ST INT,
    taste_DW INT,
    taste_SA INT);
```

Table

“ERD 다이어그램”



데이터 확인

웹 스크래핑

Web Scraping

Chrome이 자동화된 테스트 소프트웨어에 의해 제어되고 있습니다.

Any rating

Grapes

Search grapes

Cabernet Franc Cabernet Sauvignon
Chardonnay Grenache Malbec Merlot
Pinot Noir Riesling Sauvignon Blanc
Shiraz/Syrah

Regions

Search regions

Bordeaux Bourgogne Napa Valley
Piemonte Rhone Valley Toscana

Countries

Search countries

Ampeleia Cabernet Franc 2016

Casarena Lauren's Single Vineyard Agrelo Cabernet Franc 2015
Agrelo, Argentina

4.0 ★★★★☆ 235 ratings

Available online from ₩91.40

Valdivieso Single Vineyard Cabernet Franc 2017
Colchagua Valley, Chile

4.1 ★★★★☆ 187 ratings

Among top 2% of all wines in the world

Available online from ₩38

Data

WINE TABLE

wine	
wine_no	INT
name	VARCHAR(100)
price	INT
rating	FLOAT
Indexes	

2000 여개의 data 추출

	wine_no	name	price	rating
▶	1	Memoro Rosso N.V.	2877035	3.8
	2	Bordeaux Rouge 2017	3532114	3.6
	3	Toscana 2018	36000	3.7
	4	Bastide Miraflores Vieilles Vignes Syrah - Grenach...	32000	3.8
	5	Villa Antinori Toscana Bianco 2018	34000	3.9
	6	Trumpeter Malbec 2015	3009821	3.6
	7	Saint-Esprit Côtes-du-Rhône 2017	3540966	3.8
	8	Cabernet Sauvignon Reserva 2016	3319656	3.8
	9	Lambrusco dell'Emilia Rosso N.V.	2213104	3.6
	10	Bastide Miraflores Vieilles Vignes Syrah - Grenach...	32000	3.9
	11	Prima Cuvée Brut N.V.	3826663	3.8

	wine_no	name	price	rating
	1994	Montepulciano d'Abruzzo 2006	154917	4.3
	1995	Orade Shiraz 2005	132786	4.2
	1996	Pinot Noir 2012	160229	4.3
	1997	Kai Carmenère 2011	500000	4.4
	1998	Ironedad 2008	133050	4.2
	1999	Destinae 2010	195430	4.3
	2000	Tokaji Aszú 6 Puttonyos 2004	371801	4.3
	NULL	NULL	NULL	NULL

Data

WINE_COUNTRY TABLE

The screenshot shows a database table named 'wine_country' with three columns: 'name' (VARCHAR(100)), 'country' (VARCHAR(20)), and 'city' (VARCHAR(20)). There are two more columns listed below the main ones. The table has an index section at the bottom.

name	country	city
'Rippon' Mature Vine Riesling 2019	New Zealand	Central Otago
'Rippon' Mature Vine Riesling 2020	New Zealand	Central Otago
11 Filari Primitivo di Manduria Dolce Naturale 2011	Italy	Primitivo di Manduria
120 Reserva Especial Cabernet Sauvignon 2018	Chile	Central Valley
120 Reserva Especial Merlot 2017	Chile	Central Valley
5th Generation Shiraz 2015	Australia	Barossa
6 Meses en Barrica 2011	Spain	Castilla
A2 Pinot Noir 2018	New Zealand	Central Otago
Albariño 2014	Spain	Rías Baixas
Alfonso Oloroso Seco N.V.	Spain	Jerez-Xérès-Sherry
Anthony's Hill Cabernet Sauvignon 2013	United States	California

2000개의 제품의 ‘나라’, ‘지역’ 추출

name	country	city
'Rippon' Mature Vine Riesling 2019	New Zealand	Central Otago
'Rippon' Mature Vine Riesling 2020	New Zealand	Central Otago
11 Filari Primitivo di Manduria Dolce Naturale 2011	Italy	Primitivo di Manduria
120 Reserva Especial Cabernet Sauvignon 2018	Chile	Central Valley
120 Reserva Especial Merlot 2017	Chile	Central Valley
5th Generation Shiraz 2015	Australia	Barossa
6 Meses en Barrica 2011	Spain	Castilla
A2 Pinot Noir 2018	New Zealand	Central Otago
Albariño 2014	Spain	Rías Baixas
Alfonso Oloroso Seco N.V.	Spain	Jerez-Xérès-Sherry
Anthony's Hill Cabernet Sauvignon 2013	United States	California

name	country	city
Wairau Reserve Sauvignon Blanc 2021	New Zealand	Marlborough
Waitaki Vineyard Riesling 2020	New Zealand	Waitaki
White Zinfandel 2006	United States	California
Wild Sauvignon 2019	New Zealand	Marlborough
X, SJP Sauvignon Blanc 2019	New Zealand	Marlborough
X, SJP Sauvignon Blanc 2020	New Zealand	Marlborough
Xino-Xano Blanco 2013	Spain	Penedès
Xmas Special Edition Cariñena 2012	Spain	Cariñena
Zinfandel 2007	United States	California
Zweigelt Domaene Gobelsburg 2018	Austria	Niederösterreich
NULL	NULL	NULL

Data

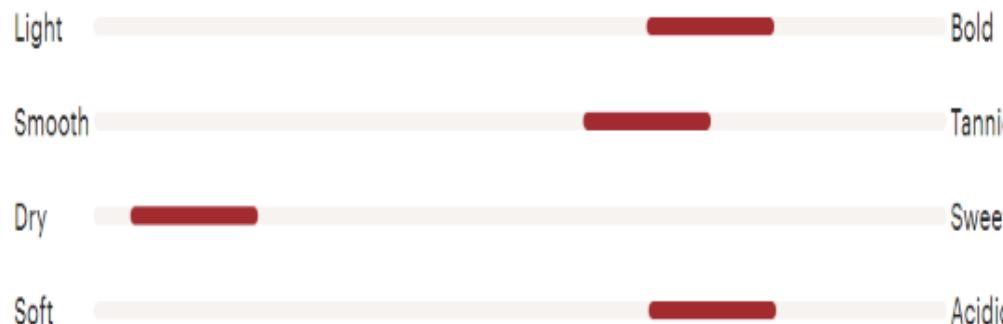
WINE_DETAIL TABLE

wine_detail	
name	VARCHAR(100)
taste_LB	INT
taste_ST	INT
taste_DW	INT
taste_SA	INT
wine_wine_no	INT
wine_name	VARCHAR(100)
Indexes	

맛의 정도를

Light - Bold, Smooth - Tannic, Dry - Sweet, Soft - Acidic

로 나누고 수치화



name	taste_LB	taste_ST	taste_DW	taste_SA
'Rippon' Mature Vine Riesling 2019	31.1151	0	5.9332	78.5748
'Rippon' Mature Vine Riesling 2020	31.1151	0	5.9332	78.5748
11 Filari Primitivo di Manduria Dolce Naturale 2011	62.943	0	0	61.05
120 Reserva Especial Cabernet Sauvignon 2018	64.5548	47.7469	16.8398	43.1017
120 Reserva Especial Merlot 2017	61.7985	19.6201	17.1519	23.2745
5th Generation Shiraz 2015	80.2547	42.9649	17.0715	42.2547
6 Meses en Barrica 2011	77.0625	58.096	15.4007	33.9029
A2 Pinot Noir 2018	24	24.5645	0.0758075	63.9734
Albariño 2014	7.12761	0	55.5492	55.7247
Alfonso Oloroso Seco N.V.	66.7583	0	36.5951	62.5552
Anthony's Hill Cabernet Sauvignon 2013	82.1788	55.0844	8.3694	41.434

name	taste_LB	taste_ST	taste_DW	taste_SA
Vitral Reserva Syrah 2016	85	41.7201	8.08298	27.0639
Wairau Reserve Sauvignon Blanc 2021	34.272	0	3.13105	77.7464
Waitaki Vineyard Riesling 2020	31.0525	0	13.2363	77.6719
White Zinfandel 2006	42.5	0	0	0
Wild Sauvignon 2019	35.9975	0	5.03056	75.7531
X, SJP Sauvignon Blanc 2019	33.0466	0	7.26572	75.0786
X, SJP Sauvignon Blanc 2020	33.0466	0	7.26572	75.0786
Xmas Special Edition Cariñena 2012	65.8811	41.9835	17.6817	40.9614
Zinfandel 2007	82.1725	30.5878	34.2555	14.7388
Zweigelt Domaene Gobelsburg 2018	41.242	48.9357	0.171238	62.4654
NULL	NULL	NULL	NULL	NULL

분석 결과

1만원 대 가성비 와인

```
SELECT wine_no 와인번호, name 와인명, country 나라, city 지역, price 가격, rating 평점,  
round(price/rating) 가성비  
FROM wine  
NATURAL JOIN wine_detail  
NATURAL JOIN wine_country  
WHERE price > 10000  
ORDER BY price/rating  
limit 5;
```

와인 번호	와인명	나라	지역	가격	평점	가성비
184	Chardonnay 2018	United States	California	15900	3.6	4417
155	Cabernet Sauvignon 2019	United States	Napa Valley	15000	3.3	4545
611	Chardonnay 2019	New Zealand	Marlborough	15900	3.4	4676
183	Chardonnay 2017	Argentina	Mendoza	15900	3.3	4818
617	Malbec 2018	Argentina	Uco Valley	15900	3.3	4818

2만원 대 가성비 와인

```
SELECT wine_no 와인번호, name 와인명, country 나라, city 지역, price 가격, rating 평점,  
round(price/rating) 가성비  
FROM wine  
NATURAL JOIN wine_detail  
NATURAL JOIN wine_country  
WHERE price > 20000  
ORDER BY price/rating  
limit 5;
```

와인 번호	와인명	나라	지역	가격	평점	가성비
549	11 Filari Primitivo di Manduria Dolce Naturale 2011	Italy	Primitivo di Manduria	21639	4.1	5278
81	Sun Dried Malbec 2020	New Zealand	Hawke's Bay	22279	4.2	5305
54	Electra White (California Moscato) 2011	United States	Madera	21246	4	5312
74	Gran Corte 2010	Argentina	Vista Flores	22131	4.1	5398
97	Cru Sauvignon Blanc 2020	New Zealand	Wairau Valley	21614	4	5404

가성비 와인 TOP 5(2만원 대)



11 Filari Primitivo di
Manduria Dolce Naturale 2011

Italy, Primitivo di Manduria

평점 4.1

₩21,639



Sun Dried Malbec 2020

New Zealand, Hawke's Bay

평점 4.2

₩22,279



Electra White (California
Moscato) 2011

United States, Madera

평점 4.0

₩21,246



Gran Corte 2010

Argentina, Vista Flores

평점 4.1

₩22,131



Cru Sauvignon Blanc 2020

New Zealand, Wairau Valley

평점 4.0

₩21,614

5만원 대 가성비 와인

```
SELECT wine_no 와인번호, name 와인명, country 나라, city 지역, price 가격, rating 평점,  
round(price/rating) 가성비  
FROM wine  
NATURAL JOIN wine_detail  
NATURAL JOIN wine_country  
WHERE price > 50000  
ORDER BY price/rating  
limit 5;
```

와인 번호	와인명	나라	지역	가격	평점	가성비
861	Liguai 2006	Chile	Maipo Valley	53114	4.4	12071
1152	Laborde Double Select Syrah 2017	Argentina	Uco Valley	50901	4.2	12119
1136	Mas Vilella 2003	Spain	Penedès	53114	4.3	12352
860	Liguai 2005	Chile	Maipo Valley	53114	4.3	12352
1087	Bourgogne Pinot Noir 2009	France	Bourgogne	53114	4.2	12646

와인 평점이 높은 나라

나라별 평점이 높은 나라

```
SELECT country, AVG(rating)
  FROM wine
  NATURAL JOIN wine_detail
  NATURAL JOIN wine_country
 GROUP BY country;
```

country	AVG(rating)
Spain	3.826190474487486
Germany	3.7733333269755045
France	3.75990097121437
Chile	3.7263566061507825
Australia	3.784615385663378
Argentina	3.768604644509249
United States	3.987179485651163
South Africa	3.861538446866549
Romania	3.25

- 1 Spain
- 2 Germany
- 3 France
- 4 Chile
- 5 Australia

와인 평점이 높은 도시(지역)

도시별 평점이 높은 나라

```
SELECT city, AVG(rating)
  FROM wine
  NATURAL JOIN wine_detail
  NATURAL JOIN wine_country
 GROUP BY city;
```

city	AVG(rating)
Bierzo	3.549999952316284
Pfalz	3.9666666189829507
Pomerol	4.199999968210856
Cariñena	3.1666666666666665
Beaujolais-Villages	3.4333333174387612
Maule Valley	3.4000000303441826
South Eastern Australia	3.6999999980131784
Yarra Valley	3.5999999046325684
Tunuyán	3.8800000667572023

- 1 Bierzo
- 2 Pfalz
- 3 Pomerol
- 4 California
- 5 Beaujolais - Villages

Bold 한 맛이 강한 와인 / Tannic(쓴 맛이 강한 와인)

bold한 맛이 강한 와인 순서대로 5개

```
SELECT *
FROM wine
NATURAL JOIN wine_detail
NATURAL JOIN wine_country
order by taste_LB DESC
LIMIT 5;
```

name	wine_no	price	rating	taste_LB	taste_ST	taste_DW	taste_SA	country
Pasi髇 2013	38	26557	4	85	46	9	46	Spain
Classic Series Shiraz 2012	11	36295	3.6	85	49	27	43	Australia
Vintner's Collection Cabernet Sauvignon 2014	58	39836	3.7	85	52	10	43	United States
Koonunga Hill Shiraz 2017	127	38951	3.7	85	47	18	44	Australia
Classic Series Shiraz 2012	40	36295	3.6	85	49	27	43	Australia

tannic(쓴 맛)이 강한 와인 순서대로 5개

```
SELECT *
FROM wine
NATURAL JOIN wine_detail
NATURAL JOIN wine_country
order by taste_ST DESC
LIMIT 5;
```

name	wine_no	price	rating	taste_LB	taste_ST	taste_DW	taste_SA	country	city
Langhe Nebbiolo 2010	917	53114	3.3	60	78	3	79	Italy	Langhe
Haut-Mdoc 2003	687	44262	3.6	75	75	6	73	France	Haut-Mdoc
Haut-Mdoc 2003	1229	48688	3.8	75	75	6	73	France	Haut-Mdoc
Haut-Mdoc 2017	1052	53114	3.8	74	75	4	73	France	Haut-Mdoc
Sandro Fay Tei Rosso di Valtellina 2018	724	46475	3.8	57	75	7	82	Italy	Valtellina

출처

<https://m.blog.naver.com/javrin4/221681582480>

감사합니다

