Practical Assignment 5

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Task 1: Research

History of Wine

Wine is made from fermented grape juice, however it is an alcoholic beverage that has been drunk and made in different parts of the world. The history of wine dates back to over 5000 years ago.

Its discovery is said to have been uncovered when grapes had been left for too long in amphorae or earthenware jugs. They would soon become tainted with wild yeast, eventually leading to their fermentation, brave individuals would then proceed to drink the tainted grapes leading to the creation of wine.

History of Wine

What is the 100-point scale?

The 100-point scale was popularized by Wine Spectator magazine and by Robert Parker in his Wine Advocate newsletter.

Getting a rating from this scale, has been said to either make or break a wine brand, due to the prestige that the scale holds. Most wines that are evaluated using this scale normally fall into he 85-100 points.

The scale is based on the American high-school marking system, so the scale will start at 50 and not 0, leading to additional criticism. There are other point scales such as the 5-point scale, the 20-point scale however the 100-point scale is the most popular.

Red Wine

Made from black grapes fermented with the grape skin, seed and stems (Jordan, 2019). The red colour comes from the grape skin.

Red wine is high in tannins which is why it has a bitter and dry taste (Gillen, 2022).

Red wine is best had at or slightly below room temperature since if the wine is chilled the tannins in the wine can become bitter.

The darker or newer the wine the more tannins it contains so an older wine will taste less dry and bitter (Gillen, 2022).

Red wine is best paired with wholesome foods (Gillen, 2022) such as pizza, red meat and pasta.

White Wine

Made from both white and black grapes that are fermented without the grape skins (Jordan, 2019) so only the clear grape juice is used.

White wine is low in tannins (Gillen, 2022) making it more acidic with a tart flavor. White wine is best has chilled to bring out its flavours.

White wine pairs best with light dishes (Gillen, 2022) such as chicken, seafood and salads.

Rose Wines

Made from black grapes that are fermented with the skins for a brief period before removing the skins to create its pink colour (Jordan, 2019). Rose is low in tannins but some rose can be dry (Jordan, 2019).

It has a light and sweet flavour. Rose is best paired with light dishes and appetizers such as seafood, fruit, cheese and poultry.

Sparkling Wines

Sparkling wines are carbonated wines made from black and white grapes (Gillen, 2022) where the carbon dioxide creating the carbonated wine is naturally occurring due to the fermentation (Jordan, 2019). Best paired with light foods such as cheeses, seafood and fruit.

Desert Wines

Dessert wines are sweet wines that are had after a meal sometimes as a dessert. Best paired with a dessert such as a cheesecake, pudding or crème brulee.

Fortified Wine

Fortified wines contain spirits which are added during the fermentation process (Jordan, 2019). These wines are sweetened by alcohol and can be used as dessert wines. Due to the added spirit these wines tend to have a higher alcohol percentage and are paired well with baked goods such as tarts, cheese and other desserts.

Orange Wine

Made with white grapes fermented with the skin on giving it an orange colour. This means that orange wine does have tannins but still maintains the crisp taste of a white wine. Served at a slightly warmer temperature than a white wine and pairs well with hearty dishes such as pork or beef (Gillen, 2022).

What Is a Wine Varietal?

A wine varietal is a wine made with one variety of grapes, such as pinot noir, chardonnay, and cabernet sauvignon (Wines, 2023).

Different types of wine such as red wine, white wine, sparkling wine, and dessert wine are not varietals, but varietals exist within these categories.

In some wine-producing regions, a varietal has the same name as the grape it's made from such as Syrah which is a varietal made from Syrah grapes. This is a common naming convention in North America, Australia, and South America.

In more traditional wine regions, such as France and Italy, varietals' names come from where winemakers produce the drink instead of the grape variety. A Burgundy wine, made in the French wine region, contains Pinot Noir grapes.

Wine Varietals vs. Wine Blends

Wines that are made from two or more types of grapes that don't meet the varietal threshold are blends.

For example, a Bordeaux blend usually contains cabernet sauvignon, merlot, Malbec, and Petit Verdot.

There are an estimated 10,000 varieties of wine grapes grown around the world (Vineyard, 2023).

Red Wine Varietals

1. Cabernet sauvignon:

This varietal is high in tannins and has peppery and fruity notes (Puckette, n.a).

2. Malbec:

This varietal has hints of blackberry, plum, cloves, and pepper. Malbec grapes originated in France but are the predominant variety in Argentina (Critic, 2023).

3. Merlot:

Merlot wines have deep fruity flavors such as blackberry, plum, black cherry, and black currant. In warm climates like Chile, merlots tend to have a higher alcohol content (Critic, 2023).

4. Pinot noir:

This red wine has notes of red fruit, such as strawberry, cherry, and cranberry. Pinot noir is a versatile grape variety that winemakers also used to make white wine, rosé wine, and sparkling wine (Puckette, n.a).

5. Sangiovese:

Sangiovese varietals have hints of raspberry and licorice. Producers commonly blend the black Sangiovese grape with other varietals in Chianti, an Italian Tuscan wine blend (Critic, 2023).

6. Syrah:

This red grape goes by "Syrah" in the French Rhône Valley and "Shiraz" in Australia. Due to regional differences, syrahs from Italy and France are more acidic and have earthy tones with herbaceous aromas. New World syrahs tend to be fruit-forward with hints of spice (Puckette, n.a).

7. Zinfandel:

Fruity and spicy with strawberry, raspberry, cherry, and blackberry notes, zinfandel is both a red wine and a sweet rosé. Some winemakers also produce white zinfandel (Puckette, n.a).

White Wine Varietals

1. Chardonnay:

This full-bodied varietal has hints of pear, apple, tropical fruit, and vanilla. Wine producers make chardonnay in many parts of the world, though its roots trace to Burgundy (Puckette, n.a).

2. Chenin blanc:

This grape variety originated in the Loire Valley in France and has citrus and floral notes. Producers also make Chenin blanc in South Africa and California (Zhang, 2023).

3. Muscat:

In Italian, the Muscat family of grapes goes by "Moscato." Moscato is a fruity, sweet wine with notes of peach, nectarine, and orange. The Piedmont region in Italy produces Moscato wines (Zhang, 2023).

4. Pinot grigio:

Fresh and zesty, this varietal is also known as pinot gris. It originated in Burgundy and has pear, peach, and apricot notes (Puckette, n.a).

5. Riesling:

Highly acidic with fruit flavors such as nectarine, apple, and pear, this white grape originated in the Rhine region of Germany (Puckette, n.a).

6. Sauvignon blanc:

Fresh and crisp, with high levels of acidity, sauvignon blanc has notes of grapefruit, white peach, and passion fruit. In California, it's sometimes called fumé blanc because of oak aging in the winemaking process (Puckette, n.a).

7. Viognier:

This aromatic, full-bodied varietal has hints of rose petal, tangerine, and citrus. While Viognier is grown in North America and New Zealand, it originated in the Rhone Valley and is the only grape used in Condrieu wine (Zhang, 2023).

Wine Regions

South Africa is know to produce some of the most unique wines due to its soil resulting in bold red and white wines.

Most South African wines come from the Western Cape with the exception of Lower Orange River and Douglas in the Northern Cape (Folly, n.d).

The Western Cape has a hot climate making it a great location to produce bold red wines such as Syrah, Pinotage, and Cabernet.

The cooler climate found in the Cape South Coast is great for the production of Chardonnay and Sémillon.

Wine regions in the Western Cape include Stellenbosch, Paarl, and Swartland (Folly, n.d).

Information for A Wine Tourist

What is wine tourism?

Also known as enotourism and vinitourism, it is a branch of food tourism which is primarily focused on wine and its consumption.

It is all about getting to know about different types of wine around the world, learning about it as you are traveling.

There are a multitude of activities that a wine tourist would partake in, one of them being vineyard and winery tours, which are meant to show tourists the how wine is produced and to taste the wine.

Information for A Wine Tourist

The Benefits of wine tourism

Wine tourism has brought a massive positive impact on the wine industry, becoming a source of alternative income, helping winemakers and wineries to become more profitable.

It has also become a place to allow people who share their passion with people who will appreciate it.

It has become a place for people to experience new and different wines and provided a platform for people to visit different wineries from their regulars.

It has also provide the opportunity for people to learn more about wine, winemaking and wineries.

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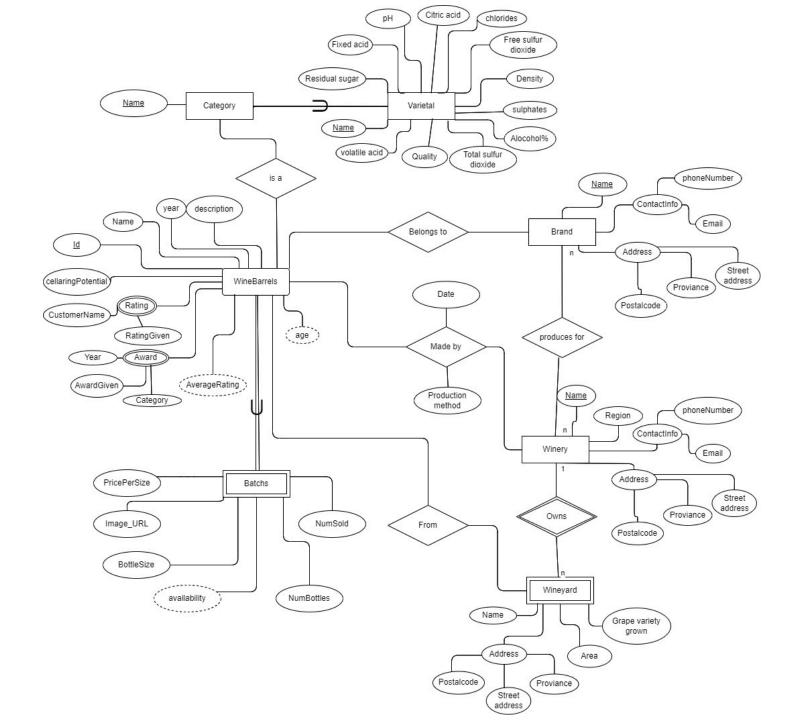
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Task 2: ER-Diagram



Task 3: ER-Diagram to Relational Mapping

WineBarrels Name Year Description CellaringPotential Brandname Varietal WineryName ProductionDate ProductionMethod WineBottle BottleSize WineBarrelID Price NumBottlesMade NumBottlesSold ImageURL Award Details WineBarrelID Award Year Varietal pН AlocoholPercentage Quality CategoryName VarietalName Residual sugar

Brand!

<u>BrandName</u>	PhoneNumber	Email	StreetAddress	Province	PostalCode
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Winery

Name	Region	PhoneNumber	Email	StreetAddress	Province	PostalCode

Wineyards

WineryName	WineyardName	StreetAddress	Province	PostalCode	Area	GrapeVariety
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User

Heresto	FirmAllows	I I I	Constant delication	D	D	Dhana Niverbaa	F	HT	D	Constantials	D 6
<u>UserID</u>	FirstName	Lastname	StreetAddress	Province	PostalCode	PhoneNumber	Email	UserType	Department	Credentials	Prefrences

WineyardName

Purchases

<u>UserID</u>	Item	Date
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WineryRating

UserID WineryName Rating

BrandRating

<u>UserID</u> <u>BrandName</u> Rating

WineyardRating

<u>UserID</u> <u>WineryName</u> <u>WineyardName</u> Rating

WineRating

UserID WineBarrelID Rating

Production

WineryName BrandName

Task 4: Relational Schema

WineBarrels Table

```
CREATE TABLE WineBarrels(
ID int(11) UNSIGNED NOT NULL AUTO INCREMENT,
Name VARCHAR(128) NOT NULL,
Year DATE NOT NULL,
Description VARCHAR(288) NOT NULL,
Cellaring Potential DATE NOT NULL,
Brand Name VARCHAR(128) NOT NULL,
Varietal VARCHAR(128) NOT NULL,
Winery Name VARCHAR(128) NOT NULL,
Production Date DATE NOT NULL,
Production Method VARCHAR(128) NOT NULL,
Wineyard Name VARCHAR(128) NOT NULL,
PRIMARY KEY (ID),
CONSTRAINT `fk_WineBarrels_Brand`FOREIGN KEY(Brand_Name) REFERENCES Brand(Name) ON DELETE
RESTRICT ON UPDATE CASCADE,
CONSTRAINT 'fk WineBarrels Varietal'FOREIGN KEY(Varietal) REFERENCES Varietal(Varietal Name) ON
DELETE RESTRICT ON UPDATE CASCADE,
CONSTRAINT `fk_WineBarrels_Winery`FOREIGN KEY(Winery_Name) REFERENCES Winery(Name) ON DELETE
RESTRICT ON UPDATE CASCADE)
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

Bottle Table

```
CREATE TABLE Bottle(
Wine_Barrel_ID INT(11) UNSIGNED NOT NULL,
Bottle_Size SET("500ml","750ml","1000ml") NOT NULL DEFAULT "750ml",
Price DECIMAL UNSIGNED NOT NULL DEFAULT 199.99,
Num_Bottles_Made INT UNSIGNED NOT NULL DEFAULT 0, Image_URL VARCHAR(128) NOT NULL DEFAULT "https://upload.wikimedia.org/wikipedia/commons/1/14/No_Image_Available.jpg?20200913095930",
PRIMARY KEY(Wine_Barrel_ID),
CONSTRAINT `fk_Bottle_WineBarrels` FOREIGN KEY(Wine_Barrel_ID) REFERENCES WineBarrels(ID) ON DELETE
RESTRICT ON UPDATE CASCADE,
CONSTRAINT `check Bottle Size` CHECK(Bottle Size IN("500ml","750ml","1000ml")),
CONSTRAINT `check_Price` CHECK(Price BETWEEN 100.00 AND 400.00).
CONSTRAINT`check_NumBottles_Made` CHECK(Num_Bottles_Made BETWEEN 0 AND 900000))
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

Brand Table

```
CREATE TABLE Brand(
```

Name VARCHAR(128) NOT NULL, Phone_Number VARCHAR(9) NOT NULL UNIQUE,

Email VARCHAR(128) NOT NULL UNIQUE,

Street_Address VARCHAR(128) NOT NULL,

Province SET("Eastern Cape","Free State", "Gauteng","KwaZulu-Natal","Limpopo","Mpumalanga","Northern Cape","North West","Western Cape") NOT NULL,

Postal_Code VARCHAR(4) NOT NULL,

PRIMARY KEY(Name))

ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

Varietal Table

```
CREATE TABLE Varietal(
Varietal Name VARCHAR(128) NOT NULL,
Residual Sugar DECIMAL NOT NULL,
pH DECIMAL NOT NULL,
Alcohol Percentage DECIMAL NOT NULL, Quality INT(2) NOT NULL DEFAULT 5,
Category Name VARCHAR(128) NOT NULL, PRIMARY KEY(Varietal Name),
CONSTRAINT 'check Quality' CHECK(Quality BETWEEN 0 AND 10))
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

Winery Table

```
CREATE TABLE Winery(
```

Name VARCHAR(128) NOT NULL,

Region SET("Eastern Cape", "Free State", "Gauteng", "KwaZulu-Natal", "Limpopo", "Mpumalanga", "Northern Cape", "Northern West", "Western Cape") NOT NULL,

Phone_Number VARCHAR(9) NOT NULL UNIQUE,

Email VARCHAR(128) NOT NULL UNIQUE, Street_Address VARCHAR(128) NOT NULL,

Province SET("Eastern Cape", "Free State", "Gauteng", "KwaZulu-Natal", "Limpopo", "Mpumalanga", "Northern Cape", "Northern West", "Western Cape") NOT NULL,

Postal_Code VARCHAR(4) NOT NULL, PRIMARY KEY(Name),

CONSTRAINT `check_Province` CHECK(Province IN("Eastern Cape","Free State", "Gauteng","KwaZulu-Natal","Limpopo","Mpumalanga","Northern Cape","North West","Western Cape")),

CONSTRAINT `check_postal_code` CHECK(Postal_Code BETWEEN 0000 AND 9999),

CONSTRAINT `check_Region` CHECK(Region IN("Eastern Cape","Free State", "Gauteng","KwaZulu-Natal","Limpopo","Mpumalanga","Northern Cape","North West","Western Cape")))

ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

Award Table

```
CREATE TABLE Award(Wine_Barrel_ID INT(11) DEFAULT NULL,
Award VARCHAR(128) NOT NULL,
Year YEAR DEFAULT NULL, Details VARCHAR(288) NOT NULL,
PRIMARY KEY(Wine_Barrel_ID, Award, Year),
CONSTRAINT `fk_Award_WineBarrels`FOREIGN KEY(Wine_Barrel_ID)
REFERENCES WineBarrels(ID) ON DELETE RESTRICT ON UPDATE CASCADE)
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

Wineyards Table

```
CREATE TABLE Wineyards(
```

Winery_Name VARCHAR(128) NOT NULL,

Wineyard Name VARCHAR(128) NOT NULL,

Street_Address VARCHAR(128) NOT NULL,

Province SET("Eastern Cape","Free State", "Gauteng","KwaZulu-Natal","Limpopo","Mpumalanga","Northern Cape","North West","Western Cape") NOT NULL,

Postal_Code VARCHAR(4) NOT NULL,

Area VARCHAR(128) NOT NULL, Grape Variety VARCHAR(128) NOT NULL,

PRIMARY KEY(Winery_Name,Wineyard_Name),

CONSTRAINT `fk_Wineyard_Winery`FOREIGN KEY(Winery_Name) REFERENCES Winery(Name) ON DELETE RESTRICT ON UPDATE CASCADE,

CONSTRAINT `check_Province` CHECK(Province IN("Eastern Cape","Free State", "Gauteng","KwaZulu-Natal","Limpopo","Mpumalanga","Northern Cape","North West", "Western Cape")),

CONSTRAINT `check_postal_code` CHECK(Postal_Code <= 9999))

ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

User Table

```
CREATE TABLE User(
User_ID int(11) AUTO_INCREMENT NOT NULL,
First_Name VARCHAR(128) NOT NULL,
Last_Name VARCHAR(128) NOT NULL,
Phone_Number VARCHAR(9) NOT NULL UNIQUE,
Email VARCHAR(128) NOT NULL UNIQUE,
Street_Address VARCHAR(128) NOT NULL,
Province SET("Eastern Cape","Free State", "Gauteng","KwaZulu-Natal","Limpopo","Mpumalanga","Northern Cape","North West","Western Cape") NOT NULL,
User Type SET("Customer","Manager","Critic"),Department VARCHAR(128) DEFAULT NULL,Credentials VARCHAR(128) DEFAULT NULL,Preferences VARCHAR(128) DEFAULT
```

CONSTRAINT `check Province` CHECK(Province IN("Eastern Cape","Free State", "Gauteng","KwaZulu-Natal","Limpopo","Mpumalanga","Northern Cape","North

NULL,

PRIMARY KEY(User ID),

West","Western Cape")),

CONSTRAINT `check postal code` CHECK(Postal Code <= 9999),

ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CONSTRAINT `check user type` CHECK(User Type IN("Customer","Manager","Critic")))

Purchases and WineryRating Tables

```
CREATE Purchases TABLE(
User ID int(11) NOT NULL,
Item VARCHAR NOT NULL DEFAULT "WINE",
Date of Purchase DATE NOT NULL,
CONSTRAINT'fk Purchases User' FOREIGN KEY(User ID) REFERENCES User(User ID) ON DELETE RESTRICT ON UPDATE CASCADE)
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
CREATE TABLE WineryRating(
User ID int(11) NOT NULL,
Winery Name VARCHAR(128) NOT NULL,
Rating int(2) NOT NULL DEFAULT 5,
PRIMARY KEY(User ID, Winery Name),
CONSTRAINT 'fk WineryRating Winery'FOREIGN KEY(Winery Name) REFERENCES Winery(Name) ON DELETE RESTRICT ON UPDATE CASCADE,
CONSTRAINT 'fk WineyRating User'FOREIGN KEY(User ID) REFERENCES User(User ID) ON DELETE RESTRICT ON UPDATE CASCADE,
CONSTRAINT `check rating` CHECK(Rating BETWEEN 0 AND 10))
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

WineyardRating Table

```
CREATE TABLE WineyardRating(
```

User_ID int(11) NOT NULL,

Winery_Name VARCHAR(128) NOT NULL,

Wineyard Name VARCHAR(128) NOT NULL,

Rating int(2) NOT NULL DEFAULT 5,

PRIMARY KEY(User ID, Winery Name),

CONSTRAINT `fk_WineyardRating_User`FOREIGN KEY(User_ID) REFERENCES User(User_ID) ON DELETE RESTRICT ON UPDATE CASCADE,

CONSTRAINT `fk_WineyardRating_Winery`FOREIGN KEY(Winery_Name) REFERENCES Winery(Name) ON DELETE RESTRICT ON UPDATE CASCADE,

CONSTRAINT `fk_WineyardRating_Wineyard`FOREIGN KEY(Wineyard_Name) REFERENCES Wineyards(Wineyard_Name) ON DELETE RESTRICT ON UPDATE CASCADE,

CONSTRAINT `check_rating` CHECK(Rating BETWEEN 0 AND 10))

ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

WineRating and Production Tables

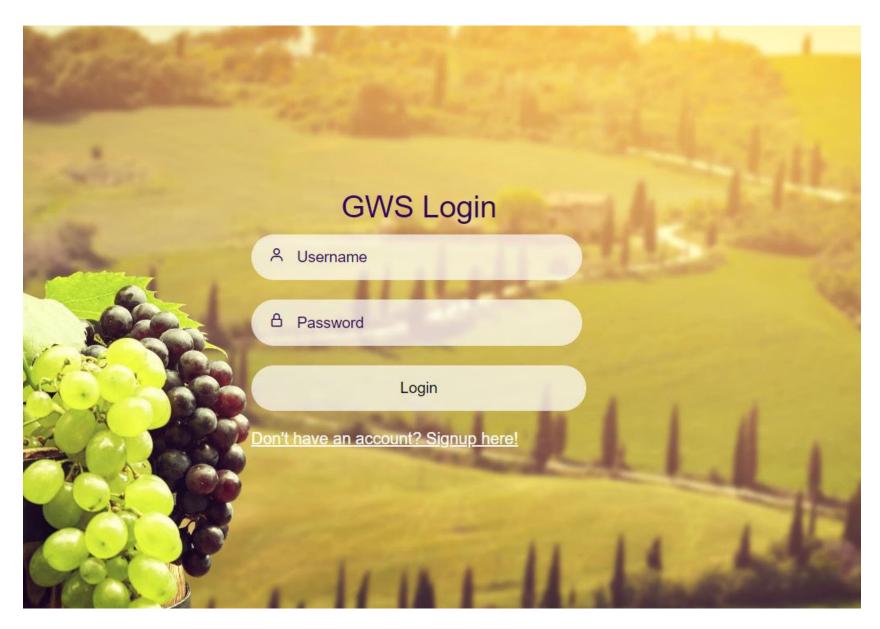
```
CREATE TABLE WineRating(
User ID int(11) NOT NULL,
WineBarrel ID int(11) UNSIGNED NOT NULL AUTO INCREMENT,
Rating int(2) NOT NULL DEFAULT 5,
PRIMARY KEY(User ID, WineBarrel ID),
CONSTRAINT 'fk WineRating User'FOREIGN KEY(User ID) REFERENCES User(User ID) ON DELETE RESTRICT ON UPDATE CASCADE,
CONSTRAINT 'fk WineRating WineBarrles' FOREIGN KEY (WineBarrel ID) REFERENCES WineBarrels (ID) ON DELETE RESTRICT ON UPDATE CASCADE,
CONSTRAINT 'check rating' CHECK(Rating BETWEEN 0 AND 10))
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
CREATE TABLE Production(
Winery Name VARCHAR(128) NOT NULL,
Brand Name VARCHAR(128) NOT NULL,
PRIMARY KEY(Winery Name, Brand Name),
CONSTRAINT 'fk Production Winery FOREIGN KEY(Winery Name) REFERENCES Winery(Name) ON DELETE RESTRICT ON UPDATE CASCADE,
CONSTRAINT 'fk Production Brand'FOREIGN KEY(Brand Name) REFERENCES Brand(Name) ON DELETE RESTRICT ON UPDATE CASCADE)
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

Task 5: Web-based Application

Login

```
<div class="second">
   <div class="top">
       <i class='bx bx-user' ></i>
   <div class="inputfield">
       <input type="Password" class="input" placeholder="Password" id="">
       <i class='bx bx-lock-alt'></i>
   <div class="inputfield">
       <input type="submit" class="submit" value="Login" id="">
       <a href = "signup.php">Don't have an account? Signup here!</a>
       var email = document.getElementById("inputemail").value;
       var emailRegex = /^[\w-\.]+@([\w-]+\.)+[\w-]{2,4}$/g;
           alert("Invalid email address.");
```

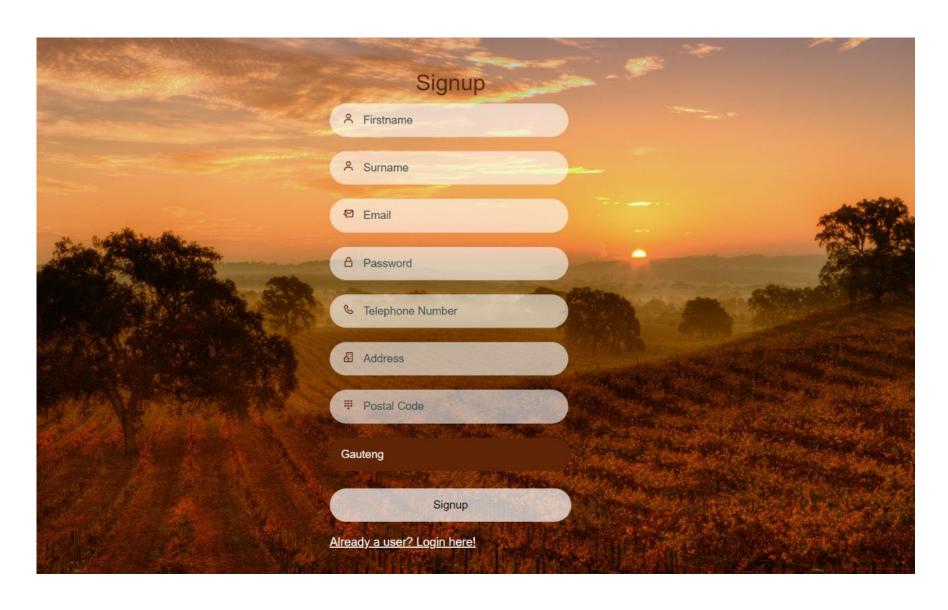
Login



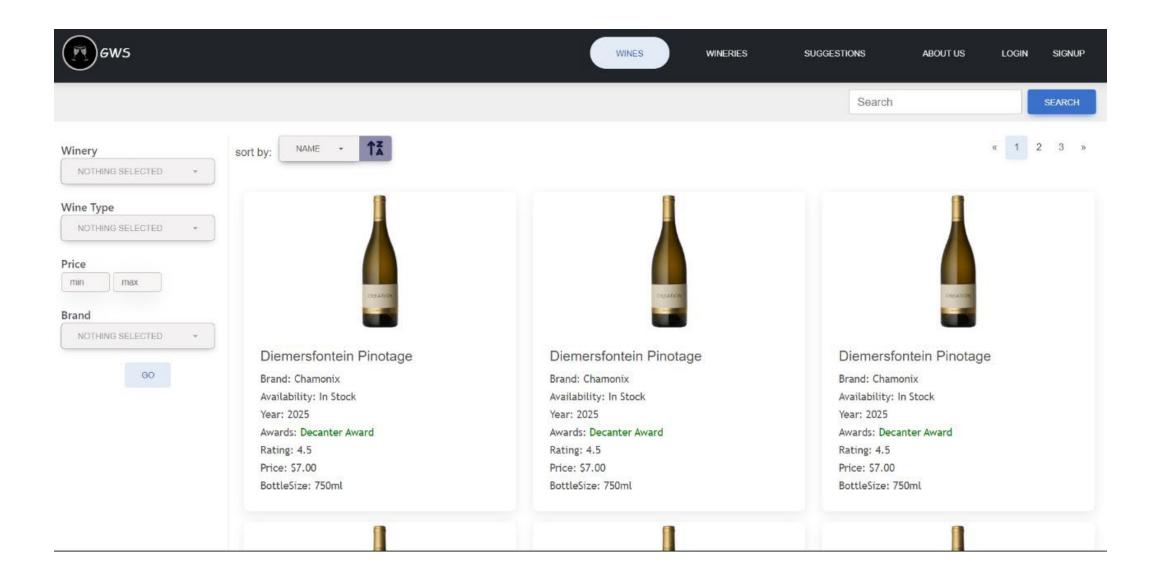
Signup

```
<div class="first">
   <div class="second">
       <div class="top">
<header>Signup</header>
    <div class="inputfield">
   <input type = "text" id = "inputfirstname" placeholder="Firstname" class = "input">
   <i class='bx bx-user' ></i>
<input type = "text" id = "inputsurname" placeholder="Surname" class = "input">
<i class='bx bx-user' ></i>
<input id = "inputemail" placeholder="Email" class = "input" type = "email">
<i class='bx bx-mail-send' ></i>
<input id = "inputpassword" placeholder="Password" type = "Password" class = "input">
<i class='bx bx-lock-alt' ></i>
<input id = "inputphonenumber" placeholder="Telephone Number" class = "input" type= "text">
<i class='bx bx-phone' ></i>
<input id = "inputstreetaddress" placeholder="Address" class = "input">
<i class='bx bx-building-house' ></i>
<input type = "text" id = "inputpostalcode" placeholder="Postal Code" class = "input" type = "number">
<i class='bx bx-dialpad' ></i>
    <div class="selectcontainer">
    <option>Eastern Cape</option>
    <option>Free State</option>
    <option>Mpumalanga</option>
    <option>Kwazulu-Natal</option>
    <option>Limpopo</option>
    <option>North West</option>
   <div class="iconcontainer">
      <i class = "caret"></i></i>
<select id = "inputusertype" class = "selector">
  <option>Manager
```

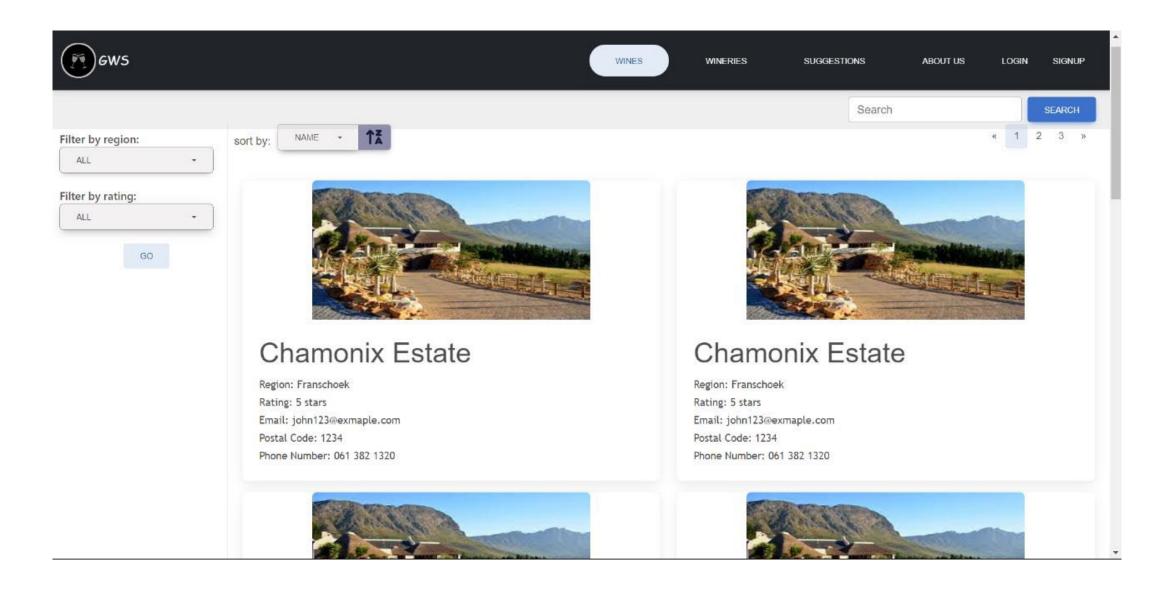
Signup



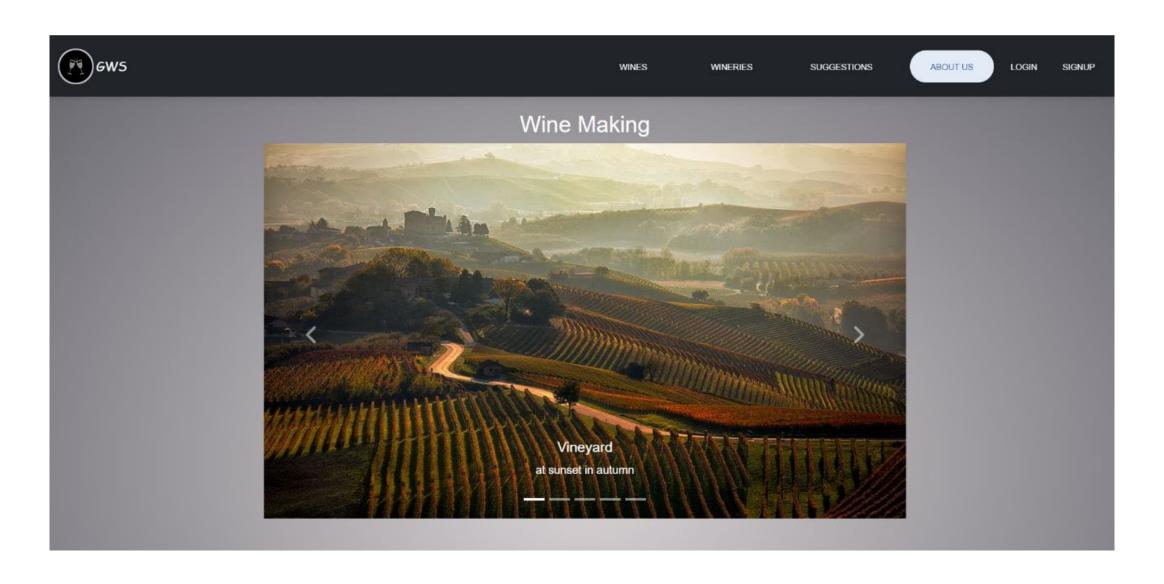
Wines



Wineries



About Us Page



Query Wines

```
function getWines($decode)
 //Create SQL query
 $validReturn = array("bottleSize" => "bot.Bottle_Size AS bottleSize", "price" => "bot.Price AS price",
   "image_URL" => "bot.Image_URL AS image_URL", "availability" => "bot.Num_Bottles_Made - bot.Num_Bottles_Sold AS availability",
   "name"=> "bar.Name AS name", "year"=> "bar.Year AS year", "age" => "YEAR(CURDATE()) - bar.Year AS age",
   "description"=> "bar.Description AS description", "cellaringPotential"=> "bar.Cellaring Potential AS cellaringPotential",
   "awardName"=> "aw.Award AS awardName", "awardYear"=> "aw.Year AS awardYear", "awardDetails"=> "aw.Details AS awardDetails",
   "categoryName"=> "var.Category_Name AS categoryName", "varietalName"=> "var.Varietal_Name AS varietalName",
   "residualSugar"=> "var.Residual Sugar AS residualSugar", "ph"=> "var.pH AS ph",
   "alcoholPercent"=> "var.Alcohol Percentage AS alcoholPercent", "quality"=> "var.Quality AS quality",
   "brandName"=> "var.Brand Name AS brandName", "wineryName"=> "bar.Winery Name AS wineryName",
   "wineyardName"=> "bar.Wineyard_Name AS wineyardName", "rating"=> "AVG(rate.Rating) AS rating",
   "productionMethod"=> "bar.Production_Method AS productionMethod", "productionDate"=> "bar.Production_Date AS productionDate");
 $awardFlag = false;
 $sq1 = "";
 if(!isset($decode->Return)) //Checking that required field is set
   errorHandling("The parameters are incorrect", 400);
 //SELECT and FROM statements
 if($decode->Return == "*") //Returing everything
   //Seperate call "awardName", "awardYear", "awardDetails". Setting flag for call later on
   $awardFlag = true;
   $sql .= "SELECT bot.Wine_Barrel_ID AS wineBarrelID, bot.Bottle_Size AS bottleSize, bot.Price AS price, bot.Image_URL AS image_URL, bot.Num_Bottles_Made - bot.Num_Bottles_Sold AS availability,
   bar.Name AS name, bar.Year AS year, YEAR(CURDATE()) - bar.Year AS age, bar.Description AS description, bar.Cellaring_Potential AS cellaringPotential, var.ID AS varietalID,
   var.Category_Name AS categoryName, var.Varietal_Name AS varietalName, var.Residual_Sugar AS residualSugar, var.pH AS ph,
   var.Alcohol_Percentage AS alcoholPercent, var.Quality AS quality, var.Brand_Name AS brandName, bar.Winery_Name AS wineryName, bar.Wineyard_Name AS wineyardName,
   AVG(rate.Rating) AS rating, bar.Production_Method AS productionMethod, bar.Production_Date AS productionDate
   FROM Bottle AS bot
   JOIN WineBarrels AS bar
   ON bot.Wine Barrel ID = bar.ID
   LEFT JOIN Varietal AS var
   ON bar.Varietal ID=var.ID
   LEFT JOIN WineRating AS rate
   ON bar.ID = rate.Bottle_ID";
```

Task 6: Data

Award Table

Wine_Barrel_ID	Award	Year	Details
2	Decanter Award	2022	Silver for the Old Vine Steen 2021.
2	John Platter	2023	4.5 stars for the Old Vine Steen (Reserve Range) 2
3	Decanter Awards	2022	Silver for the Vintage 2020.
3	John Platter	2022	4½ star for the Vintage 2018.
3	Michelangelo Awards	2020	Grand Prix Trophy for the Vintage 2018
3	Michelangelo Awards	2021	Gold for the Vintage 2019.
3	Tim Atkins	2021	91 Points for the Vintage 2019.
-	John Platter	2022	4 stars for the vintage 2021.
-	Michelangelo Awards	2021	Double gold for the vintage 2021.
3	John Platter	2023	4.5 stars for the Greywacke Pinotage (Cape Chamoni
3	Tim Atkins	2021	Scored 93 points for the vintage 2018
26	Michelangelo International Wine & Spirits Awards.	2022	Silver at Michelangelo International Wine & Spirit
27	Michelangelo International Wine & Spirits Awards.	2022	Silver at Michelangelo International Wine & Spirit
28	Michelangelo International Wine & Spirits Awards.	2022	Silver at Michelangelo International Wine & Spirit

Award Table

Structure





Bottle Table

Wine_Barrel_ID	Bottle_Size	Price	Num_Bottles_Made	Image_URL
2	750ml	440.00	10	https://images.commerce7.com/chamonix-estate/image
3	750ml	240.00	10	https://images.commerce7.com/chamonix-estate/image
4	750ml	285.00	10	https://images.commerce7.com/chamonix-estate/image
5	750ml	135.00	10	https://images.commerce7.com/chamonix-estate/image
6	750ml	270.00	10	https://images.commerce7.com/chamonix-estate/image
7	750ml	225.00	10	https://images.commerce7.com/chamonix-estate/image
8	750ml	225.00	10	https://images.commerce7.com/chamonix-estate/image
10	750ml	615.01	10	https://cdn.shopify.com/s/files/1/0428/4815/7845/p
11	750ml	545.00	10	https://cdn.shopify.com/s/files/1/0428/4815/7845/p
12	750ml	245.00	10	https://cdn.shopify.com/s/files/1/0428/4815/7845/p
13	750ml	90.00	10	https://cdn.shopify.com/s/files/1/0428/4815/7845/p
14	750ml	374.99	10	https://cdn.shopify.com/s/files/1/0428/4815/7845/p
15	750ml	85.00	10	https://cdn.shopify.com/s/files/1/0428/4815/7845/p
16	750ml	169.00	10	https://kwv.co.za/wp-content/uploads/2022/11/LABOR
17	750ml	79.00	10	https://laboriewines.co.za/wp-content/uploads/2022
18	250ml	130.00	10	https://shop.klawerwyn.co.za/image/cache/catalog/p
19	750ml	189.21	10	https://cdn-cejnl.nitrocdn.com/ksGwuQIIKbYWPBtTVvQ
20	750ml	165.47	10	https://cdn-cejnl.nitrocdn.com/ksGwuQllKbYWPBtTVvQ
21	750ml	135.15	10	https://cdn-cejnl.nitrocdn.com/ksGwuQIIKbYWPBtTVvQ,
22	750ml	94.34	10	https://orangeriverwines.com/wp-content/uploads/Ly
23	750ml	1400.00	10	https://www.la-motte.com/cdn/shop/products/Hanneli
24	750ml	410.00	10	https://www.la-motte.com/cdn/shop/products/La_Mott

Wine_Barrel_ID	Bottle_Size	Price	Num_Bottles_Made	Image_URL
25	750ml	110.00	10	https://www.la-motte.com/cdn/shop/products/La-Mott
26	250ml	25.00	100	https://cdn-biego.nitrocdn.com/MTabYuAZYwdzphMLbmh
27	250ml	25.00	100	https://perdeberg.co.za/wp-content/uploads/Perdebe
28	250ml	25.00	100	https://perdeberg.co.za/wp-content/uploads/Perdebe
29	750ml	375.00	10	https://cdn.shopify.com/s/files/1/0708/9425/6437/p
30	750ml	100.00	10	https://cdn.shopify.com/s/files/1/0708/9425/6437/p
31	750ml	95.00	10	https://cdn.shopify.com/s/files/1/0708/9425/6437/p
32	750ml	160.00	10	https://cdn.shopify.com/s/files/1/0708/9425/6437/p
33	750ml	70.00	10	https://cdn.shopify.com/s/files/1/0708/9425/6437/p
34	750ml	80.00	10	https://cdn.shopify.com/s/files/1/0708/9425/6437/p
35	750ml	1194.00	6	https://images.commerce7.com/cellardirect-kleine-z
36	750ml	888.00	6	https://images.commerce7.com/cellardirect-kleine-z
37	750ml	972.00	6	https://images.commerce7.com/cellardirect-kleine-z
38	750ml	90.00	10	https://dam.distell.co.za/m/431fbbb13172b42f/origi
39	750ml	105.00	10	https://dam.distell.co.za/m/2fbc2a1d7ee919a9/origi
40	750ml	90.00	10	https://dam.distell.co.za/m/772233f06bfe81f0/origi
41	750ml	90.00	10	https://dam.distell.co.za/m/7b8a98c04947931c/origi
42	750ml	90.00	10	https://dam.distell.co.za/m/2cb0c082f3300eab/Small
51	750ml	875.00	3000	https://cdn.shopify.com/s/files/1/0615/8663/7027/p
52	750ml	225.00	6000	https://cdn.shopify.com/s/files/1/0615/8663/7027/p
53	750ml	450.00	433	https://cdn.shopify.com/s/files/1/0615/8663/7027/f
54	750ml	300.00	1596	https://cdn.shopify.com/s/files/1/0615/8663/7027/p

Bottle Table

Structure





Brand Table

Name	Phone_Number	Email	Street_Address	Province	Postal_Code
Chamonix	021 876 8400	staff@chamonix.co.za	Uitkyk Street, Franschhoek	Western Cape	7690
Durbanville Hills	021 558 1300	info@durbanvillehills.co.za	Tygerberg Valley Rd, Cape Farms, Cape Town	Western Cape	7550
Klawer Cellars	027 216 1530	ontvangs@klawerwyn.co.za	Birdfield Farm wine cellars, N7, Klawer	Western Cape	8145
Kleine Zalze	021 880 0717	quality@kleinezalze.co.za	Strand Road (R44), Stellenbosch	Western Cape	7613
Koelenhof Wine Cellar	021 865 2020	online@koelenhof.co.za	Koelenhof Wine Cellar (Pty) Ltd, Koelenhof Wine Ce	Western Cape	7605
KWV Emporium	021 807 3007	info@kwvemporium.co.za	Kohler Street, Southern Paarl	Western Cape	7646
La Motte	021 876 8000	info@la-motte.co.za	La Motte Wine Estate (PTY) Ltd, PO Box 685, Frans	Western Cape	7690
Nederburg	021 862 3104	info@nederburg.com	Nederburg Wines, Sonstraal Road, Dal Josafat, Paar	Western Cape	7646
Orange River	054 337 8800	madere@owk.co.za	32 Industria Street, Upington	Northern Cape	8800
Perdeberg Wines	021 869 8244	info@perdeberg.co.za	Vryguns Farm, Windmeul, Paarl	Western Cape	7630
Stellenzicht Wines	021 569 0362	winepod@stellenzicht.com	Upper Blaauwklippen Rd, Stellenbosch	Western Cape	7599

Brand Table

Structure

#	Name	Туре	Collation	Attributes	Null	Default	(
1	Name 🔑	varchar(128)	utf8mb4_general_ci		No	None	
2	Phone_Number 🔑	varchar(13)	utf8mb4_general_ci		No	None	
3	Email 🔑	varchar(128)	utf8mb4_general_ci		No	None	
4	Street_Address	varchar(128)	utf8mb4_general_ci		No	None	
5	Province	set('Eastern Cape', 'Free State', 'Gauteng', 'KwaZ	utf8mb4_general_ci		No	None	
6	Postal_Code	varchar(4)	utf8mb4_general_ci		No	None	

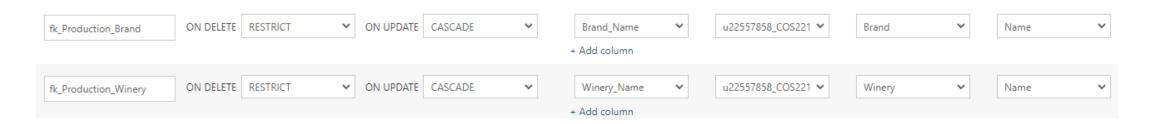
Production Table

Winery_Name	Brand_Name
Chamonix Estate	Chamonix
Durbanville Hills Wine	Durbanville Hills
Klawer Wine Cellars	Klawer Cellars
Kleine Zalze Wines	Kleine Zalze
Koelenhof Wine Cellar	Koelenhof Wine Cellar
La Motte	La Motte
Laborie Wines	KWV Emporium
Laborie Wines Nederburg Wines	KWV Emporium Nederburg
	·
Nederburg Wines	Nederburg

Production Table

Structure





Purchases Table

User_ID	Item	Date_of_Purchase
16	'WINE'	2023-05-16
13	'WINE'	2023-05-14
11	'WINE'	2023-04-19
7	'WINE'	2023-03-14
14	WINE	2023-02-06
2	'WINE'	2023-02-06
16	'WINE'	2023-05-17

Purchases Table

Structure





Users Table

2 Zilla Leontius 082 800 8825 randomUnicom@gmail.com 1847 First Ave 2838 Customer NULL HIKVHNVXe9 NULL NULL 3 Juliána Jeroen 082 501 2588 spamEmailn@gmail.com 2252 Kort St 8870 Customer NULL 3rXFFs4xZL NULL NULL 4 Louise Rodolfo 082 199 8930 louRodo@gmail.com 583 Tait St 0299 Customer NULL 3rXFFs4xZL NULL NULL 5 Ebony Chavez 083 330 5434 eboncha@gmail.com 1431 Stanza Bopape St 0950 Customer NULL 3rXFFs4xZL NULL NULL 6 Richard Sanchez 083 470 9039 wubbalubba@gmail.com 358 Wattle St Eastern Cape 5805 Critic NULL EH9r26wDSN NULL NULL 7 Zachery Cortez 082 822 0155 zacCor@hotmail.co.za 1923 South St North West 0240 Customer NULL SWnxJzg5FC NULL NULL 8 Max Verstappen 085 224 8957 maxxV@hotmail.co.za 1989 Fox St North West 2742 Customer NULL Ne17pD5Cry NULL NULL 9 Lando Norris 082 241 9858 LNorris@hotmail.co.za 1773 Daffodil Dr Eastern Cape 5109 Customer NULL SWnXJ2g5FC NULL NULL 10 Pierre Gasty 083 804 5223 PGazz@hotmail.co.za 1773 Daffodil Dr Eastern Cape 5109 Customer NULL SWnXJ26VAR6U NULL NULL 11 Elisa Pecini 085 811 9238 elpec@hotmail.co.za 618 Hoog St Gauteng 1549 Customer NULL GG/MxQKmksC NULL NULL 12 Courtney King 083 750 5815 CourtKing@hotmail.co.za 2221 Thuthwa St Limpopo 0861 Customer NULL GJ/MxQKmksC NULL NULL 14 Sergio Perez 082 105 1155 checoPerez@gmail.com 122 Daffodil Dr Eastern Cape 5105 Critic NULL 1HihNTKsU8 NULL NULL 15 Charles Leclerc 085 725 1848 Charles@gmail.com 2471 Schoeman St Gauteng 0883 Critic NULL 525lyYXSeh NULL NULL 16 Christopher Bumstead 084 886 1397 cbumm@gmail.com 1682 Bad St Western Cape 6850 Critic NULL v54pzHn1bN NULL NULL	User_ID	First_Name	Last_Name	Phone_Number	Email	Street_Address	Province	Postal_Code	User_Type	Department	Password	Credentials	Preferences
3 Juliána Jeroen 082 501 2588 spamEmailn@gmail.com 2252 Kort St 8870 Customer NULL 3rXFFs4xZL NULL NULL 4 Louise Rodolfo 082 199 8930 louRodo@gmail.com 583 Tait St 0299 Customer NULL 3rXFFs4xZL NULL NULL 5 Ebony Chavez 083 330 5434 eboncha@gmail.com 1431 Stanza Bopape St 0950 Customer NULL 3rXFFs4xZL NULL NULL 6 Richard Sanchez 083 470 9039 wubbalubba@gmail.com 358 Wattle St Eastern Cape 5805 Critic NULL EH9r26wDSN NULL NULL 7 Zachery Cortez 082 822 0155 zacCor@hotmail.co.za 1923 South St North West 0240 Customer NULL SWnxlzg5FC NULL NULL 8 Max Verstappen 085 224 8957 maxxV@hotmail.co.za 1989 Fox St North West 2742 Customer NULL Ne17pD5Cry NULL NULL 9 Lando Norris 082 241 9858 LNorris@hotmail.co.za 1773 Daffodil Dr Eastern Cape 5109 Customer NULL 3D3o5VxA6U NULL NULL 10 Pierre Gasly 083 804 5223 PGazz@hotmail.co.za 1542 Thomas St KwaZulu-Natal 3115 Customer NULL WmY3cEzs4P NULL NULL 11 Elisa Pecini 085 811 9238 elpec@hotmail.co.za 1542 Thomas St KwaZulu-Natal 3115 Customer NULL aG0174CE31 NULL NULL 12 Courtney King 083 750 5815 CourtKing@hotmail.co.za 2221 Thuthwa St Limpopo 0861 Customer NULL GjMxQKmksC NULL NULL 13 Angelica Teixeira 085 962 0784 AngieTei@hotmail.co.za 1294 Oost St Mpumalanga 1098 Customer NULL GjMxQKmksC NULL NULL 14 Sergio Perez 082 105 1155 checoPerez@gmail.com 122 Daffodil Dr Eastern Cape 5105 Critic NULL 1HINNTKISUB NULL NULL 15 Charles Leclerc 085 725 1848 Charles@gmail.com 2471 Schoeman St Gauteng 0083 Critic NULL 5zSlyYXSeh NULL NULL 16 Christopher Bumstead 084 886 1397 cbumm@gmail.com 1682 Bad St Western Cape 6850 Critic NULL v54pzhn1bN NULL NULL	1	Dominic	Fanjek	082 588 3562	domfan@gmail.com	1516 Mosman Rd		8320	Customer	NULL	Rhino88	NULL	NULL
4 Louise Rodolfo 082 199 8930 louRodo@gmail.com 583 Tait St 0299 Customer NULL 3rXFFs4xZL NULL NULL 5 Ebony Chavez 083 330 5434 eboncha@gmail.com 1431 Stanza Bopape St 0950 Customer NULL 3rXFFs4xZL NULL NULL 6 Richard Sanchez 083 470 9039 wubbalubba@gmail.com 358 Wattle St Eastern Cape 5805 Critic NULL EH9r26wDSN NULL NULL 7 Zachery Cortez 082 822 0155 zacCor@hotmail.co.za 1923 South St North West 0240 Customer NULL SWnxJzg5FC NULL NULL 8 Max Verstappen 085 224 8957 maxxV@hotmail.co.za 1989 Fox St North West 2742 Customer NULL Ne17pD5Cry NULL NULL 9 Lando Norris 082 241 9858 LNorris@hotmail.co.za 1773 Daffodil Dr Eastern Cape 5109 Customer NULL 3D3o5VxA6U NULL NULL 10 Pierre Gasly 083 804 5223 PGazz@hotmail.co.za 1542 Thomas St KwaZulu-Natal 3115 Customer NULL WmY3cEzs4P NULL NULL 11 Elisa Pecini 085 811 9238 elpec@hotmail.co.za 618 Hoog St Gauteng 1549 Customer NULL aG0174CE31 NULL NULL 12 Courtney King 083 750 5815 CourtKing@hotmail.co.za 2221 Thuttwa St Limpopo 0861 Customer NULL GjMxQKmksC NULL NULL 13 Angelica Teixeira 085 962 0784 AngieTei@hotmail.co.za 1294 Oost St Mpumalanga 1098 Customer NULL GjMxQKmksC NULL NULL 14 Sergio Perez 082 105 1155 checoPerez@gmail.com 122 Daffodil Dr Eastern Cape 5105 Critic NULL 1HlhNTKsU8 NULL NULL 15 Charles Leclerc 085 725 1848 Charles@gmail.com 2471 Schoeman St Gauteng 0083 Critic NULL v54pzHn1bN NULL NULL 16 Christopher Bumstead 084 886 1397 cbumm@gmail.com 1682 Bad St Western Cape 6850 Critic NULL v54pzHn1bN NULL NULL	2	Zilla	Leontius	082 800 8825	randomUnicorn@gmail.com	1847 First Ave		2838	Customer	NULL	HlkVHNVXe9	NULL	NULL
5 Ebony Chavez 083 330 5434 eboncha@gmail.com 1431 Stanza Bopape St 0950 Customer NULL 3rXFrs4xZL NULL NULL 6 Richard Sanchez 083 470 9039 wubbalubba@gmail.com 358 Wattle St Eastern Cape 5805 Critic NULL EH9r26wDSN NULL NULL 7 Zachery Cortez 082 822 0155 zacCor@hotmail.co.za 1923 South St North West 0240 Customer NULL SWnxlzg5FC NULL NULL 8 Max Verstappen 085 224 8957 maxxV@hotmail.co.za 1989 Fox St North West 2742 Customer NULL Ne17pD5Cry NULL NULL 9 Lando Norris 082 241 9858 LNorris@hotmail.co.za 1773 Daffodil Dr Eastern Cape 5109 Customer NULL 3D3o5VxA6U NULL NULL 10 Pierre Gasly 083 804 5223 PGazz@hotmail.co.za 1542 Thomas St KwaZulu-Natal 3115 Customer NULL WmY3cEzs4P NULL NULL 11 Elisa Pecini 085 811 9238 elpec@hotmail.co.za 618 Hoog St Gauteng 1549 Customer NULL aG0J74CE31 NULL NULL 12 Courtney King 083 750 5815 CourtKing@hotmail.co.za 2221 Thutlwa St Limpopo 0861 Customer NULL GJMxQKmksC NULL NULL 13 Angelica Teixeira 085 962 0784 AngieTei@hotmail.co.za 1294 Oost St Mpumalanga 1098 Customer NULL GJMxQKmksC NULL NULL 14 Sergio Perez 082 105 1155 checoPerez@gmail.com 122 Daffodil Dr Eastern Cape 5105 Critic NULL 1HihNTKsU8 NULL NULL 15 Charles Leclerc 085 725 1848 Charles@gmail.com 2471 Schoeman St Gauteng 0083 Critic NULL 5zShyYXSeh NULL NULL 16 Christopher 8umstead 084 886 1397 cbumm@gmail.com 1682 8ad St Western Cape 6850 Critic NULL v54pzHn1bN NULL NULL	3	Juliāna	Jeroen	082 501 2588	spamEmailn@gmail.com	2252 Kort St		8870	Customer	NULL	3rXFFs4xZL	NULL	NULL
6 Richard Sanchez 083 470 9039 wubbalubba@gmail.com 358 Wattle St Eastern Cape 5805 Critic NULL EH9r26wDSN NULL NULL 7 Zachery Cortez 082 822 0155 zacCor@hotmail.co.za 1923 South St North West 0240 Customer NULL SWnxJzg5FC NULL NULL 8 Max Verstappen 085 224 8957 maxxV@hotmail.co.za 1989 Fox St North West 2742 Customer NULL Ne17pD5Cry NULL NULL 9 Lando Norris 082 241 9858 LNorris@hotmail.co.za 1773 Daffodil Dr Eastern Cape 5109 Customer NULL 3D3o5VxA6U NULL NULL 10 Pierre Gasly 083 804 5223 PGazz@hotmail.co.za 1542 Thomas St KwaZulu-Natal 3115 Customer NULL WmY3cEzs4P NULL NULL 11 Elisa Pecini 085 811 9238 elpec@hotmail.co.za 618 Hoog St Gauteng 1549 Customer NULL aG0/74CE31 NULL NULL 12 Courtney King 083 750 5815 CourtKing@hotmail.co.za 2221 Thutlwa St Limpopo 0861 Customer NULL UcRhvzvmfv NULL NULL 13 Angelica Teixeira 085 962 0784 AngieTei@hotmail.co.za 1294 Oost St Mpumalanga 1098 Customer NULL GjMxQKmksC NULL NULL 14 Sergio Perez 082 105 1155 checoPerez@gmail.com 122 Daffodil Dr Eastern Cape 5105 Critic NULL 1HIhNTKsU8 NULL NULL 15 Charles Leclerc 085 725 1848 Charles@gmail.com 2471 Schoeman St Gauteng 0083 Critic NULL v54pzHn1bN NULL NULL 16 Christopher Bumstead 084 886 1397 cbumm@gmail.com 1682 Bad St Western Cape 6850 Critic NULL v54pzHn1bN NULL NULL	4	Louise	Rodolfo	082 199 8930	louRodo@gmail.com	583 Tait St		0299	Customer	NULL	3rXFFs4xZL	NULL	NULL
7 Zachery Cortez 082 822 0155 zacCor@hotmail.co.za 1923 South St North West 0240 Customer NULL SWnxJzg5FC NULL NULL 8 Max Verstappen 085 224 8957 maxxV@hotmail.co.za 1989 Fox St North West 2742 Customer NULL Ne17pD5Cry NULL NULL 9 Lando Norris 082 241 9858 LNorris@hotmail.co.za 1773 Daffodil Dr Eastern Cape 5109 Customer NULL 3D3o5VxA6U NULL NULL 10 Pierre Gasly 083 804 5223 PGazz@hotmail.co.za 1542 Thomas St KwaZulu-Natal 3115 Customer NULL WmY3cEzs4P NULL NULL 11 Elisa Pecini 085 811 9238 elpec@hotmail.co.za 618 Hoog St Gauteng 1549 Customer NULL aG0J74CE31 NULL NULL 12 Courtney King 083 750 5815 CourtKing@hotmail.co.za 2221 Thuthwa St Limpopo 0861 Customer NULL UcRhvzvmfv NULL NULL 13 Angelica Teixeira 085 962 0784 AngieTei@hotmail.co.za 1294 Oost St Mpumalanga 1098 Customer NULL GjMxQKmksC NULL NULL 14 Sergio Perez 082 105 1155 checoPerez@gmail.com 122 Daffodil Dr Eastern Cape 5105 Critic NULL 5zSlyYXSeh NULL NULL 15 Charles Leclerc 085 725 1848 Charles@gmail.com 2471 Schoeman St Gauteng 0083 Critic NULL 5zSlyYXSeh NULL NULL 16 Christopher Bumstead 084 886 1397 cbumm@gmail.com 1682 Bad St Western Cape 6850 Critic NULL v54pzHn1bN NULL NULL	5	Ebony	Chavez	083 330 5434	eboncha@gmail.com	1431 Stanza Bopape St		0950	Customer	NULL	3rXFFs4xZL	NULL	NULL
8 Max Verstappen 085 224 8957 maxxV@hotmail.co.za 1989 Fox St North West 2742 Customer NULL Ne17pD5Cry NULL NULL 9 Lando Norris 082 241 9858 LNorris@hotmail.co.za 1773 Daffodil Dr Eastern Cape 5109 Customer NULL 3D3o5VxA6U NULL NULL 10 Pierre Gasly 083 804 5223 PGazz@hotmail.co.za 1542 Thomas St KwaZulu-Natal 3115 Customer NULL WmY3cEzs4P NULL NULL 11 Elisa Pecini 085 811 9238 elpec@hotmail.co.za 618 Hoog St Gauteng 1549 Customer NULL aG0J74CE31 NULL NULL 12 Courtney King 083 750 5815 CourtKing@hotmail.co.za 2221 Thutlwa St Limpopo 0861 Customer NULL UcRhvzvmfv NULL NULL 13 Angelica Teixeira 085 962 0784 AngieTei@hotmail.co.za 1294 Oost St Mpumalanga 1098 Customer NULL GjMxQKmksC NULL NULL 14 Sergio Perez 082 105 1155 checoPerez@gmail.com 122 Daffodil Dr Eastern Cape 5105 Critic NULL 1HlhNTKsU8 NULL NULL 15 Charles Leclerc 085 725 1848 Charles@gmail.com 2471 Schoeman St Gauteng 0083 Critic NULL v54pzHn1bN NULL NULL 16 Christopher Bumstead 084 886 1397 cbumm@gmail.com 1682 Bad St Western Cape 6850 Critic NULL v54pzHn1bN NULL NULL	6	Richard	Sanchez	083 470 9039	wubbalubba@gmail.com	358 Wattle St	Eastern Cape	5805	Critic	NULL	EH9r26wDSN	NULL	NULL
9 Lando Norris 082 241 9858 LNorris@hotmail.co.za 1773 Daffodil Dr Eastern Cape 5109 Customer NULL 3D3o5VxA6U NULL NULL 10 Pierre Gasly 083 804 5223 PGazz@hotmail.co.za 1542 Thomas St KwaZulu-Natal 3115 Customer NULL WmY3cEzs4P NULL NULL 11 Elisa Pecini 085 811 9238 elpec@hotmail.co.za 618 Hoog St Gauteng 1549 Customer NULL aG0J74CE31 NULL NULL 12 Courtney King 083 750 5815 CourtKing@hotmail.co.za 2221 Thutlwa St Limpopo 0861 Customer NULL UcRhvzvmfv NULL NULL 13 Angelica Teixeira 085 962 0784 AngieTei@hotmail.co.za 1294 Oost St Mpumalanga 1098 Customer NULL GjMxQKmksC NULL NULL 14 Sergio Perez 082 105 1155 checoPerez@gmail.com 122 Daffodil Dr Eastern Cape 5105 Critic NULL 5zSlyYXSeh NULL NULL 15 Charles Leclerc 085 725 1848 Charles@gmail.com 2471 Schoeman St Gauteng 0083 Critic NULL 5zSlyYXSeh NULL NULL 16 Christopher Bumstead 084 886 1397 cbumm@gmail.com 1682 Bad St Western Cape 6850 Critic NULL v54pzHn1bN NULL NULL	7	Zachery	Cortez	082 822 0155	zacCor@hotmail.co.za	1923 South St	North West	0240	Customer	NULL	SWnxJzg5FC	NULL	NULL
10 Pierre Gasly 083 804 5223 PGazz@hotmail.co.za 1542 Thomas St KwaZulu-Natal 3115 Customer NULL WmY3cEzs4P NULL NULL 11 Elisa Pecini 085 811 9238 elpec@hotmail.co.za 618 Hoog St Gauteng 1549 Customer NULL aG0J74CE31 NULL NULL 12 Courtney King 083 750 5815 CourtKing@hotmail.co.za 2221 Thutlwa St Limpopo 0861 Customer NULL UcRhvzvmfv NULL NULL 13 Angelica Teixeira 085 962 0784 AngieTei@hotmail.co.za 1294 Oost St Mpumalanga 1098 Customer NULL GjMxQKmksC NULL NULL 14 Sergio Perez 082 105 1155 checoPerez@gmail.com 122 Daffodil Dr Eastern Cape 5105 Critic NULL 1HlhNTKsU8 NULL NULL 15 Charles Leclerc 085 725 1848 Charles@gmail.com 2471 Schoeman St Gauteng 0083 Critic NULL v54pzHn1bN NULL NULL 16 Christopher Bumstead 084 886 1397 cbumm@gmail.com 1682 Bad St Western Cape 6850 Critic NULL v54pzHn1bN NULL NULL	8	Max	Verstappen	085 224 8957	maxxV@hotmail.co.za	1989 Fox St	North West	2742	Customer	NULL	Ne17pD5Cry	NULL	NULL
11 Elisa Pecini 085 811 9238 elpec@hotmail.co.za 618 Hoog St Gauteng 1549 Customer NULL aG0J74CE31 NULL NULL 12 Courtney King 083 750 5815 CourtKing@hotmail.co.za 2221 Thutlwa St Limpopo 0861 Customer NULL UcRhvzvmfv NULL NULL 13 Angelica Teixeira 085 962 0784 AngieTei@hotmail.co.za 1294 Oost St Mpumalanga 1098 Customer NULL GjMxQKmksC NULL NULL 14 Sergio Perez 082 105 1155 checoPerez@gmail.com 122 Daffodil Dr Eastern Cape 5105 Critic NULL 1HIhNTKsU8 NULL NULL 15 Charles Leclerc 085 725 1848 Charles@gmail.com 2471 Schoeman St Gauteng 0083 Critic NULL 5zSlyYXSeh NULL NULL 16 Christopher Bumstead 084 886 1397 cbumm@gmail.com 1682 Bad St Western Cape 6850 Critic NULL v54pzHn1bN NULL NULL	9	Lando	Norris	082 241 9858	LNorris@hotmail.co.za	1773 Daffodil Dr	Eastern Cape	5109	Customer	NULL	3D3o5VxA6U	NULL	NULL
12 Courtney King 083 750 5815 CourtKing@hotmail.co.za 2221 Thutlwa St Limpopo 0861 Customer NULL UcRhvzvmfv NULL NULL 13 Angelica Teixeira 085 962 0784 AngieTei@hotmail.co.za 1294 Oost St Mpumalanga 1098 Customer NULL GjMxQKmksC NULL NULL 14 Sergio Perez 082 105 1155 checoPerez@gmail.com 122 Daffodil Dr Eastern Cape 5105 Critic NULL 1HIhNTKsU8 NULL NULL 15 Charles Leclerc 085 725 1848 Charles@gmail.com 2471 Schoeman St Gauteng 0083 Critic NULL 5zSlyYXSeh NULL NULL 16 Christopher Bumstead 084 886 1397 cbumm@gmail.com 1682 Bad St Western Cape 6850 Critic NULL v54pzHn1bN NULL NULL	10	Pierre	Gasly	083 804 5223	PGazz@hotmail.co.za	1542 Thomas St	KwaZulu-Natal	3115	Customer	NULL	WmY3cEzs4P	NULL	NULL
13 Angelica Teixeira 085 962 0784 AngieTei@hotmail.co.za 1294 Oost St Mpumalanga 1098 Customer NULL GjMxQKmksC NULL NULL 14 Sergio Perez 082 105 1155 checoPerez@gmail.com 122 Daffodil Dr Eastern Cape 5105 Critic NULL 1HIhNTKsU8 NULL NULL 15 Charles Leclerc 085 725 1848 Charles@gmail.com 2471 Schoeman St Gauteng 0083 Critic NULL 5zSlyYXSeh NULL NULL 16 Christopher Bumstead 084 886 1397 cbumm@gmail.com 1682 Bad St Western Cape 6850 Critic NULL v54pzHn1bN NULL NULL	11	Elisa	Pecini	085 811 9238	elpec@hotmail.co.za	618 Hoog St	Gauteng	1549	Customer	NULL	aG0J74CE31	NULL	NULL
14 Sergio Perez 082 105 1155 checoPerez@gmail.com 122 Daffodil Dr Eastern Cape 5105 Critic NULL 1HIhNTKsU8 NULL NULL 15 Charles Leclerc 085 725 1848 Charles@gmail.com 2471 Schoeman St Gauteng 0083 Critic NULL 5zSlyYXSeh NULL NULL 16 Christopher Bumstead 084 886 1397 cbumm@gmail.com 1682 Bad St Western Cape 6850 Critic NULL v54pzHn1bN NULL NULL	12	Courtney	King	083 750 5815	CourtKing@hotmail.co.za	2221 Thutlwa St	Limpopo	0861	Customer	NULL	UcRhvzvmfv	NULL	NULL
15 Charles Leclerc 085 725 1848 Charles@gmail.com 2471 Schoeman St Gauteng 0083 Critic NULL 5zSlyYXSeh NULL NULL 16 Christopher Bumstead 084 886 1397 cbumm@gmail.com 1682 Bad St Western Cape 6850 Critic NULL v54pzHn1bN NULL NULL	13	Angelica	Teixeira	085 962 0784	AngieTei@hotmail.co.za	1294 Oost St	Mpumalanga	1098	Customer	NULL	GjMxQKmksC	NULL	NULL
16 Christopher Bumstead 084 886 1397 cbumm@gmail.com 1682 Bad St Western Cape 6850 Critic NULL v54pzHn1bN NULL NULL	14	Sergio	Perez	082 105 1155	checoPerez@gmail.com	122 Daffodil Dr	Eastern Cape	5105	Critic	NULL	1HIhNTKsU8	NULL	NULL
	15	Charles	Leclerc	085 725 1848	Charles@gmail.com	2471 Schoeman St	Gauteng	0083	Critic	NULL	5zSlyYXSeh	NULL	NULL
17 Geralt Rivia 084 977 9177 witcher101@gmail.com 1252 Langley St Western Cape 6480 Critic NULL m7UHH71pwp NULL NULL	16	Christopher	Bumstead	084 886 1397	cbumm@gmail.com	1682 Bad St	Western Cape	6850	Critic	NULL	v54pzHn1bN	NULL	NULL
	17	Geralt	Rivia	084 977 9177	witcher101@gmail.com	1252 Langley St	Western Cape	6480	Critic	NULL	m7UHH71pwp	NULL	NULL

Users Table

Structure

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3	Last_Name	varchar(128)	utf8mb4_general_ci		No	None		
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5	Email 🔑	varchar(128)	utf8mb4_general_ci		No	None		
6	Street_Address	varchar(128)	utf8mb4_general_ci		No	None		
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8	Postal_Code	varchar(4)	utf8mb4_general_ci		No	None		
9	User_Type	set('Customer', 'Manager', 'Critic')	utf8mb4_general_ci		No	None		
10	Department	varchar(128)	utf8mb4_general_ci		Yes	NULL		
11	Credentials	varchar(128)	utf8mb4_general_ci		Yes	NULL		
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Varietal Table

Varietal_Name	Brand_Name	Residual_Sugar	рН	Alcohol_Percentage	Quality	Category_Name
Acheulean Chardonnay	Stellenzicht Wines	2.30	3.51	12.28	5	White
Acheulean Red	Stellenzicht Wines	2.46	3.59	14.60	5	Red blend of 45% Cabernet Sauvignon 40% Syrah 15%
Arenite Syrah	Stellenzicht Wines	2.82	3.60	14.79	5	Red
Bin Edelkeur	Nederburg	207.00	3.69	10.67	5	White
Blend	Chamonix	2.30	3.24	13.71	5	White
Cabernet Franc	Chamonix	1.60	3.56	14.50	5	Red
Cabernet Sauvignon	Durbanville Hills	1.01	3.70	13.88	5	Red
Cabernet Sauvignon	Nederburg	2.80	3.50	14.21	5	Red
Chardonnay	KWV Emporium	4.20	3.39	13.50	5	White
Chenin Blanc	Chamonix	2.20	3.20	13.40	5	White
Chenin Blanc	Durbanville Hills	1.99	3.60	13.69	5	White
Chenin Blanc	Kleine Zalze	NULL	NULL	NULL	5	Red
Colombard	Orange River	2.40	3.37	12.77	5	White
Grenache Carignan	Nederburg	3.50	3.40	11.10	5	Rosé
Lyra Vega	Orange River	3.80	3.81	14.25	5	Red blend of 66% Shiraz and 34% Petit Verdot
Merlot	Durbanville Hills	1.38	3.51	14.06	5	Red
Merlot	Koelenhof	3,60	3.53	14.96	5	Red
Merlot rose	Durbanville Hills	2.27	3.48	14.18	5	Rose
Muscat dAlexandrie	Klawer Cellars	NULL	NULL	NULL	5	Red
Pinorto	Koelenhof	168.20	3.29	20.25	5	Red
Pinot Noir	Chamonix	2.40	3.47	13.00	5	Red
Pinotage	Chamonix	2.00	3.60	14.00	5	Red

Varietal_Name	Brand_Name	Residual_Sugar	рН	Alcohol_Percentage	Quality	Category_Name
Pinotage	Koelenhof	3.90	3.67	15.22	5	Red
Red Blend	Kleine Zalze	NULL	NULL	NULL	5	A red blend of 80% Shiraz, 15% Mourvédre, 5% Viogn
Red Blend	Koelenhof	3.20	3.61	13.85	5	A blend of 85% Pinotage and 15% Shiraz.
Red Blend	Nederburg	NULL	NULL	NULL	5	Red blend of Cabernet Sauvignon (55%), Shiraz (45%
Red Blend	Perdeberg	NULL	3.51	13.42	5	Red Blend of shiraz, Cinsault, cabernet sauvignon
Rosé	Koelenhof	1.00	3.67	13.10	5	Dry Pinotage Rosé
Rose	KWV Emporium	4.40	3.24	13.15	5	Rose
Rosé Blend	Perdeberg	NULL	3.30	11.40	5	Rosé blend of Pinotage, Shiraz and Muscat.
Rosé Chardonnay	Kleine Zalze	11.00	3.11	12.02	5	A blend of 60% Pinot Noir and 40% Chardonnay
Rosé Vin-Sec	Koelenhof	30.30	3.66	11.32	5	Rosé
Sauvignon Blanc	Chamonix	1.70	3.28	13.52	5	White
Shiraz	Nederburg	1.60	3.44	14.73	5	Red
Silcrete Cinsault	Stellenzicht Wines	2.72	3.48	12.79	5	Red
Sparkling Demi-Sec	Durbanville Hills	36.66	3.44	12.56	5	Sparkling
Syrah	La Motte	2.70	3.41	13.69	5	A blend of Shiraz (58%), Grenache (22%) and Petite
White Blend	Perdeberg	10.50	3.56	12.90	5	White blend of Chenin Blanc and Muscat.

Varietal Table

Structure

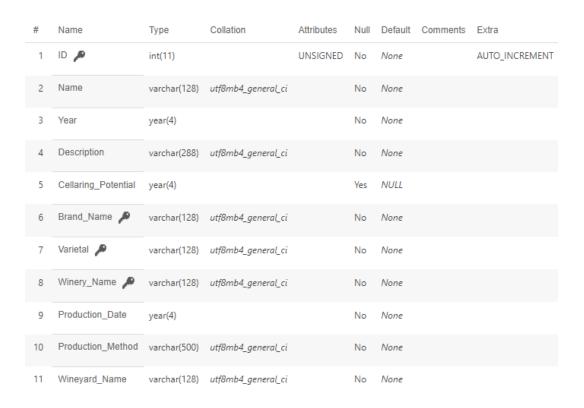
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4	рН	decimal(10,2)			Yes	NULL
5	Alcohol_Percentage	decimal(10,2)			Yes	NULL
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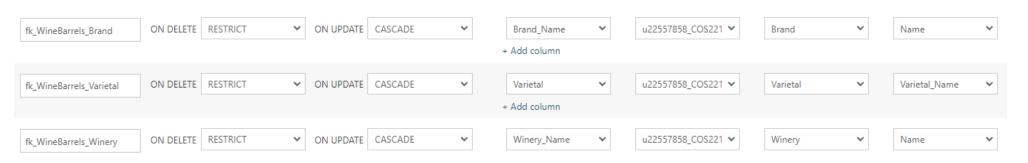
ID	Name	Year	Description	Cellaring_Potential	Brand_Name	Varietal	Winery_Name	Production_Date	Production_Method	Wineyard_Name
2	Chamonix Old Vine Steen	2022	The old vine wine has a lemon- green colour and exq	NULL	Chamonix	Chenin Blanc	Chamonix Estate	1965	White wine made by Neil Bruwer.	Chamonix Estate
3	Chamonix Chardonnay	2021	This elegant wine is complex with citrus and pear	NULL	Chamonix	Chardonnay	Chamonix Estate	1965	White wine made by Neil Bruwer.	Chamonix Estate
4	Chamonix Estate White	2021	The Estate White in the first year after harvest s	NULL	Chamonix	Blend	Chamonix Estate	1965	Semillon 58% and Sauvignon Blanc 42% blend made by	Chamonix Estate
5	Chamonix Sauvignon Blanc	2022	The Sauvignon Blanc has a pale lemon colour with g	NULL	Chamonix	Sauvignon Blanc	Chamonix Estate	1965	White wine made by Neil Bruwer.	Chamonix Estate
6	Chamonix Cabernet Franc Reserve	2021	Intense bouquet with scents reminiscent of Dark fr	NULL	Chamonix	Cabernet Franc	Chamonix Estate	1965	Red wine made by Neil Bruwer	Chamonix Estate
7	Chamonix Feldspar Pinot Noir	2021	The bouquet is complex with scents recalling wild	NULL	Chamonix	Pinot Noir	Chamonix Estate	1965	Red wine made by Neil Bruwer.	Chamonix Estate
8	Chamonix Greywacke Pinotage	2018	The Greywacke Pinotage has a deep garnet red colou	NULL	Chamonix	Pinotage	Chamonix Estate	1965	Red wine made by Neil Bruwer.	Chamonix Estate
10	Private Bin R163 Cabernet Sauvignon	2011	Packed with lush dark fruit and wrapped in mouth-w	NULL	Nederburg	Cabernet Sauvignon	Nederburg Wines	1977	The grapes were harvested at 25° Balling and each	Nederburg
11	Private Bin R163 Cabernet Sauvignon	2018	Velvety soft, supple and understated but complex a	NULL	Nederburg	Cabernet Sauvignon	Nederburg Wines	1984	Red wine made by Elunda Basson.	Nederburg
12	The Manor House Shiraz	2018	Dense ripe black fruit, vanilla nuances and sweet	NULL	Nederburg	Shiraz	Nederburg Wines	1965	Red wine made by Samuel Viljoen.	Nederburg
13	The Winemasters Grenache Carignan Rosé	2022	Strawberry and pomegranate flavours with a revital	NULL	Nederburg	Grenache Carignan	Nederburg Wines	2022	Grenache (91%) and Carignan (9%) made by Pieter Ba	Nederburg
14	Private Bin Edelkeur	2013	Opulent, mouthfilling and complex with an intense	NULL	Nederburg	Bin Edelkeur	Nederburg Wines	2013	White wine made by Natasha Boks.	Nederburg
15	Baronne	2020	A rich, medium-bodied wine with ripe plum, prune,	NULL	Nederburg	Red Blend	Nederburg Wines	2020	Cabernet Sauvignon (55%) and Shiraz (45%) blend ma	Nederburg
16	BLANC DE BLANCS	2016	This complex and indulgent MCC shows aromas of gre	NULL	KWV Emporium	Chardonnay	Laborie Wines	2013	This MCC was matured on lees, in a bottle, for app	Laborie Wines
17	Laborie Rose	2022	This salmon pink wine shows prominent aromas of st	2020	KWV Emporium	Rose	Laborie Wines	2020	Made in Western Cape	Laborie Wines
18	Villa Esposto Straw	2020	This range is made from bush vine vineyards, on th	NULL	Klawer Cellars	Muscat dAlexandrie	Klawer Wine Cellars	2020	Grapes were handpicked and dried in the sun for 2	Villa Esposto

ID	Name	Year	Description	Cellaring_Potential	Brand_Name	Varietal	Winery_Name	Production_Date	Production_Method	Wineyard_Name
19	Omstaan Shiraz Petit Verdot	2020	Deep red wine with blackberry, blackpepper vanilla	2023	Orange River	Shiraz	Orange River Wines	2018	The skins are pressed gently taking care not to re	Orange River Wines
20	Regopstaan Colombard	2021	A zesty and fresh Colombard with swirls of tropica	2026	Orange River	Colombard	Orange River Wines	2021	Fermentation temperatures ranged between 16 - 18°C	Orange River Wines
21	Lyra Vega	2022		2027	Orange River	Lyra Vega	Orange River Wines	2020	Grapes are hand picked in the early morning hours	Orange River Wines
22	Lyra Quasar	2020	A fresh and elegant Sauvignon blanc with passionfr	2025	Orange River	Sauvignon Blanc	Orange River Wines	2020	Grapes are hand picked during the early morning ho	Orange River Wines
23	Hanneli R	2017	This complex Syrah-based blend is the ideal partne	2012	La Motte	Syrah	La Motte	2005	Grape varieties for the blend were sorted and ferm	La Motte Wine Estate
24	Méthode Cap Classique	2018	This bubbly is good with most local cheeses, espec	NULL	La Motte	Chardonnay	La Motte	2014	Vines are trellised according to the Perold system	La Motte
25	Rosé Vin de Joie	2022	The delicate complexity of La Motte Vin de Joie Ro	NULL	La Motte	Rose	La Motte	2021	The grapes were destemmed and immediately fed into	La Motte
26	SSR Rosé	2022	An inviting, bright pink rosé with hints of fresh	NULL	Perdeberg Wines	Rosé Blend	Perdeberg Wines	2020		Perdeberg Wines
27	SSR Red	2021	A blend that offers soft tannins and fragrantly fr	NULL	Perdeberg Wines	Red Blend	Perdeberg Wines	2019		Perdeberg Wines.
28	SSR White	2022	A blend that offers a perfect harmony of flavours	NULL	Perdeberg Wines	White Blend	Perdeberg Wines	2021		Perdeberg Wines
29	Stellenbosch Single Vineyard Old Vines Pinotage	2020	The wine boasts a bouquet of fresh cherries, red f	NULL	Koelenhof Wine Cellar	Pinotage	Koelenhof Wine Cellar	1975	Phenolic ripe grapes were harvested and fermented	Koelenhof Wine Cellar (Stellenbosch)
30	Koelenhof Pinotage Rosé Vin- Sec	2021	A Vin-Sec style sparkling wine with a delightful p	NULL	Koelenhof Wine Cellar	Rosé Vin-Sec	Koelenhof Wine Cellar	2021		Koelenhof Wine Cellar (Koelenhof)
31	Koelenbosch Merlot	2020	The wine has a vibrant red colour with aromas of r	NULL	Koelenhof Wine Cellar	Merlot	Koelenhof Wine Cellar	2020		Koelenhof Wine Cellar (Koelenbosch)
32	Koelenbosch Pinorto	2020	Old bush vines from prime vineyards in Stellenbosc	NULL	Koelenhof Wine Cellar	Pinorto	Koelenhof Wine Cellar	2020		Koelenhof Wine Cellar (Koelenbosch)
33	Stellenbosch Gold Red Blend	2020	The wine has a deep red colour with a strong aroma	NULL	Koelenhof Wine Cellar	Red Blend	Koelenhof Wine Cellar	2020		Koelenhof Wine Cellar (Stellenbosch)
34	Koelenbosch Dry Pinotage Rosé	2022	The nose has a concentrated red fruit, and floral	NULL	Koelenhof Wine Cellar	Rosé	Koelenhof Wine Cellar	2022		Koelenhof Wine Cellar (Koelenbosch)
35	Kleine Zalze Vineyard Selection	2019	This wine shows a lush bouquet	2024	Kleine Zalze	Red Blend	Kleine Zalze	2019		Kleine Zalze

ID	Name	Year	Description	Cellaring_Potential	Brand_Name	Varietal	Winery_Name	Production_Date	Production_Method	Wineyard_Name
36	Kleine Zalze Vineyard Selection Barrel Fermented C	2022	Tight with flavours of melon, peach, guava and a h	NULL	Kleine Zalze	Chenin Blanc	Kleine Zalze Wines	2022		Kleine Zalze
37	Kleine Zalze Methode Cap Classique Brut Rosé NV	2015	A traditional, yet fun and flirtatious MCC with fl	NULL	Kleine Zalze	Rosé Chardonnay	Kleine Zalze Wines	2015		Kleine Zalze
38	Cabernet Sauvignon	2021	An elegant full-bodied wine with prominent cinnamo	NULL	Durbanville Hills	Cabernet Sauvignon	Durbanville Hills Wine	2020	Cabernet Sauvignon was oak matured for 12 months u	Durbanville Hills
39	Sparkling Honeysuckle Demi Sec	2021	Enjoy on its own slightly chilled or served with m	NULL	Durbanville Hills	Sparkling Demi- Sec	Durbanville Hills Wine	2020	The wine is crafted from 100% Sauvignon Blanc grap	Durbanville Hills
40	Chenin Blanc	2022		NULL	Durbanville Hills	Chenin Blanc	Durbanville Hills Wine	2021	The grapes where gently crushed with minimal skin	Durbanville Hills
41	Merlot	2021	This wine holds a delightful aroma of sweet ripe p	NULL	Durbanville Hills	Cabernet Sauvignon	Durbanville Hills Wine	2020		Durbanville Hills
42	Merlot Rose	2022	Elegant wine displaying flavours of ripe red berri	NULL	Durbanville Hills	Merlot rose	Durbanville Hills Wine	2021	The Merlot grapes were harvested by hand at 22°C	Durbanville Hills
51	Acheulean Red	2018	This is an exquisite balance of 45% Cabernet Sauvi	NULL	Stellenzicht Wines	Acheulean Red	Stellenzicht Vineyards	2016	The grapes are hand harvested in the morning. Whol	Stellenzicht Wines
52	Arenite Syrah	2018	Our Syrah is happily rooted in these rocky soils a	NULL	Stellenzicht Wines	Arenite Syrah	Stellenzicht Vineyards	2016	The grapes are hand harvested in the morning. Whol	Stellenzicht Wines
53	Acheulean Chardonnay	2022	All the senses come to life with this finely curat	NULL	Stellenzicht Wines	Acheulean Chardonnay	Stellenzicht Vineyards	2021	The grapes are hand harvested in the morning. Whol	Stellenzicht Wines
54	Silcrete Cinsault	2020	Silcrete is a lithological term for a strongly har	NULL	Stellenzicht Wines	Silcrete Cinsault	Stellenzicht Vineyards	2018	The grapes are hand harvested in the morning. Whol	Stellenzicht Wines

Structure





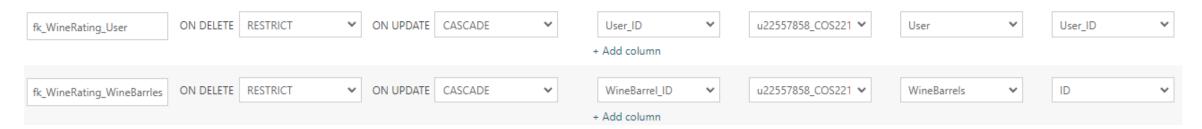
WineRating Table

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8	14	11
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6	22	16
9	15	17

WineRating Table

Structure





Winery Table

Name	Region	Phone_Number	Email	Street_Address	Province	Postal_Code
Chamonix Estate	Western Cape	021 876 8400	staff@chamonix.co.za	Uitkyk Street, Franschhoek	Western Cape	7690
Durbanville Hills Wine	Western Cape	021 558 1300	info@durbanvillehills.co.za	Tygerberg Valley Rd, Cape Farms, Cape Town	Western Cape	7550
Groote Post Vineyards	Western Cape	022 492 2825	GrootePostVineyards@gmail.com	Darling	Western Cape	4800
Klawer Wine Cellars	Western Cape	027 216 1530	KlawerWineCellars@gmail.com	Birdfield Farm wine cellars, N7, Klawer	Western Cape	8145
Kleine Zalze Wines	Western Cape	021 880 0717	KleineZalzeWiness@gmail.com	Strand Rd, De Zalze Golf Estate, Stellenbosch	Western Cape	7600
Koelenhof Wine Cellar	Western Cape	021 865 2020	ionline@koelenhof.co.za	Koelenhof Wine Cellar (Pty) Ltd, Koelenhof Wine Ce	Western Cape	7605
La Motte	Western Cape	021 876 8000	info@la-motte.co.za	La Motte Wine Estate (PTY) Ltd, Franschhoek	Western Cape	7690
Laborie Wines	Western Cape	021 807 3390	LaborieWines@gmail.com	Laborie Wine Estate Paarl	Western Cape	7646
Nederburg Wines	Western Cape	021 862 3104	NederburgWines@gmail.com	Sonstraal Rd, Paarl	Western Cape	7646
Orange River Wines	Northern Cape	054 337 8800	tastingroom@owk.co.za	32 Industria Street, Upington	Northern Cape	8800
Perdeberg Wines	Western Cape	021 869 8244	info@perdeberg.co.za	Vryguns Farm, Windmeul, Paarl	Western Cape	7630
Raka Wines	Western Cape	028 341 0676	RakaWines@gmail.com	17km out of Stanford, Stanford	Western Cape	7210
Roodeberg	Western Cape	021 807 3911	Roodeberg@gmail.com	Kohler Street, Southern Paarl	Western Cape	7646
Stellenzicht Vineyards	Western Cape	021 569 0362	info@stellenzicht.com	Upper Blaauwklippen Rd, Stellenbosch	Western Cape	7599

Winery Table

Structure

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Province	set('Eastern Cape', 'Free State', 'Gauteng', 'KwaZ	utf8mb4_general_ci		No	None
Postal_Code	varchar(4)	utf8mb4_general_ci		No	None

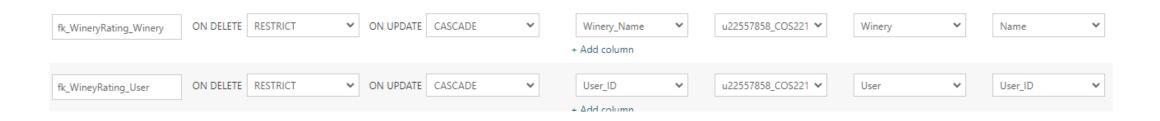
WineryRating Table

User_ID	Winery_Name	Rating
1	Nederburg Wines	6
2	Nederburg Wines	7
4	Groote Post Vineyards	6
5	Chamonix Estate	9
6	Laborie Wines	1
7	Nederburg Wines	6
8	Chamonix Estate	5
8	Koelenhof Wine Cellar	8
9	Klawer Wine Cellars	6
10	Koelenhof Wine Cellar	5
10	Laborie Wines	9
11	Chamonix Estate	3
12	Chamonix Estate	6
12	La Motte	10
12	Roodeberg	5
13	Laborie Wines	8
14	Klawer Wine Cellars	3
15	La Motte	8
15	Orange River Wines	5
15	Raka Wines	5
16	Chamonix Estate	7
16	La Motte	10
16	Roodeberg	5

WineryRating Table

Structure

Name	Туре	Collation	Attributes	Null	Default
User_ID 🔑	int(11)			No	None
Winery_Name 🔑 🔑	varchar(128)	utf8mb4_general_ci		No	None
Rating	int(2)			No	5



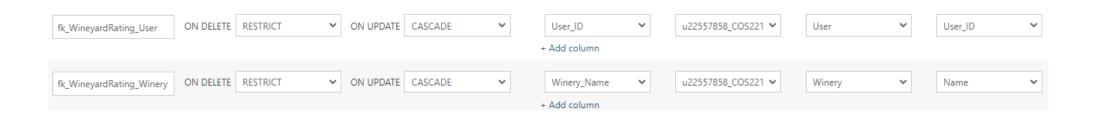
WineyardRating Table

User_ID	Winery_Name	Wineyard_Name	Rating
1	Chamonix Estate	Charmonix Estate	10
1	Klawer Wine Cellars	Klawer Wine	9
2	Klawer Wine Cellars	Klawer Wine	7
3	Nederburg Wines	Nederburg Wine	7
4	Orange River Wines	Orange River Wine	9
5	Chamonix Estate	Charmonix Estate	9
6	Roodeberg	Roodeberg Wine	8
7	La Motte	La Motte Wine	9
8	Orange River Wines	Orange River Wine	6
9	Nederburg Wines	Nederburg Wine	9
10	Roodeberg	Roodeberg Wine	7
11	Laborie Wines	Laborie Wine	8
12	Chamonix Estate	Charmonix Estate	5
12	Orange River Wines	Orange River Wine	9
13	Klawer Wine Cellars	Klawer Wine	7
14	La Motte	La Motte Wine	8
15	Klawer Wine Cellars	Klawer Wine	6
16	Chamonix Estate	Charmonix Estate	5
16	Orange River Wines	Orange River Wine	8
17	Laborie Wines	Laborie Wine	9

WineyardRating Table

Structure





Wineyards Table

Winery_N		Wineyard_Name Chamonix Estate	Street_Address	Province	Postal_Code	Area	Grape_Variety
	ix Estate	Chamonix Estate					
Durkani			Uitkyk Street	Western Cape	7690	Franschhoek	Red and White
Durbanvi	ville Hills Wine	Durbanville Hills Winery	Tygerberg Valley Rd, Cape Farms, Cape Town	Western Cape	7550	Cape Town	Red and White
: Groote Po	Post Vineyards	Groote Post Vineyards	Darling	Western Cape	4800	Darling	Red and White
Klawer W	Vine Cellars	Klawer Wine	Birdfield Farm wine cellars, N7	Western Cape	8145	Klawer	Red and White
: Kleine Za	alze Wines	Kleine Zalze	Strand Road (R44)	Western Cape	7613	Stellenbosch	Red and White
Kleine Za	alze Wines	Kleine Zalze Wines	Strand Rd, De Zalze Golf Estate	Western Cape	7600	Stellenbosch	Red and White
: Koelenho	of Wine Cellar	Koelenhof Wine Cellar (Koelenbosch)	Koelenhof Wine Cellar (Pty) Ltd, Koelenhof Wine Ce	Western Cape	7605	Koelenbosch	Red and White
Koelenho	of Wine Cellar	Koelenhof Wine Cellar (Koelenhof)	Koelenhof Wine Cellar (Pty) Ltd, Koelenhof Wine Ce	Western Cape	7605	Koelenhof	Red and White
Koelenho	of Wine Cellar	Koelenhof Wine Cellar (Stellenbosch)	Koelenhof Wine Cellar (Pty) Ltd, Koelenhof Wine Ce	Western Cape	7605	Stellenbosch	Red and White
La Motte	e	La Motte	La Motte Wine Estate (PTY) Ltd	Western Cape	7690	Franschhoek	Red and White
: Laborie V	Wines	Laborie Wines	Laborie Wine Estate	Western Cape	7646	Paarl	Red and White
Nederbu	urg Wines	Nederburg Wines	Sonstraal Rd	Western Cape	7646	Paarl	Red and White
Nederbu	urg Wines	Orange River Wines	32 Industria Street	Northern Cape	8800	Upington	Red and White
Perdeber	rg Wines	Perdeberg Wines	Vryguns Farm, Windmeul	Western Cape	7630	Paarl	Red and White
: Raka Win	nes	Raka Wines	17km out of Stanford	Western Cape	7210	Stanford	Red and White
Roodebe	erg	Roodeberg	Kohler Street	Western Cape	7646	Southern Paarl	Red and White
Stellenzio	cht Vineyards	Stellenzicht Wines	Upper Blaauwklippen Rd	Western Cape	7599	Stellenbosch	Red and White

Wineyards Table

Structure

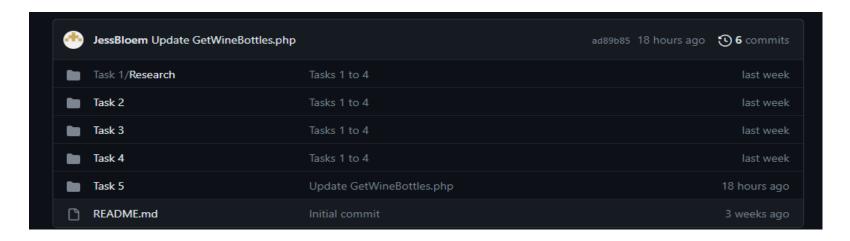
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Winery_Name 🔑	varchar(128)	utf8mb4_general_ci		No	None
Wineyard_Name 🔑	varchar(128)	utf8mb4_general_ci		No	None
Street_Address	varchar(128)	utf8mb4_general_ci		No	None
Province	set('Eastern Cape', 'Free State', 'Gauteng', 'KwaZ	utf8mb4_general_ci		No	None
Postal_Code	varchar(4)	utf8mb4_general_ci		No	None
Area	varchar(128)	utf8mb4_general_ci		No	None
Grape_Variety	varchar(128)	utf8mb4_general_ci		No	None

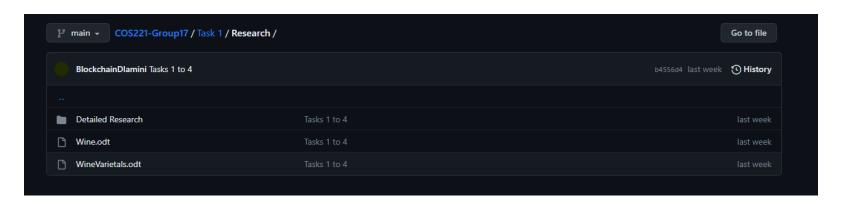


Task 6: Development

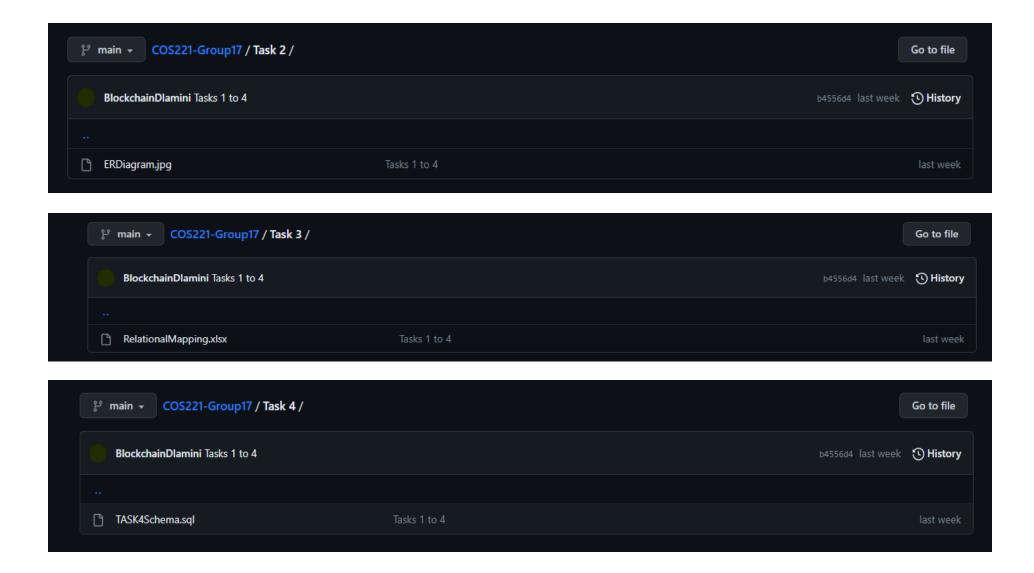
Git Usage

Git Usage Home page and task 1





Git Usage for tasks 2-4



Git Usage for task 5

₽ main → COS221-Group17 / Task 5 /		Go to file
JessBloem Update GetWineBottles.php		ad89b85 18 hours ago 🕚 History
css css	footer added	yesterday
img img	footer added	yesterday
Config.php	Add api functionality	yesterday
☐ GetWineBottles.php	Update GetWineBottles.php	18 hours ago
footer.php	footer added	yesterday
header.php	footer added	yesterday
index.php	footer added	yesterday
login.php	footer added	yesterday
management.php	initial basic frontend structure	yesterday
🖰 signup.php	initial basic frontend structure	yesterday
suggestions.php	initial basic frontend structure	yesterday
🖰 winery.php	initial basic frontend structure	yesterday

Task 6: Development

Data Validation

Login Validation

```
session_start();
require_once 'config.php'
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $email = sanitize_input($_POST['email']);
    $password = sanitize_input($_POST['password']);
    $salt = '1a3b5c7d9e2f4q6'
    $hashed_password = hash("sha256", $password . $salt);
    $connection = new Connect();
    $conn = $connection->conn;
   $stmt = $conn->prepare("SELECT * FROM User WHERE Email=? AND 'Password'=?");
    $stmt->bind_param("ss", $email, $hashed_password);
    $stmt->execute();
    $result = $stmt->get_result();
    if ($result->num_rows === 1) {
       $row = $result->fetch_assoc();
       $_SESSION[ user_id ] = $email;
       $_SESSION['logged_in'] = true;
       header("Location: index.php");
       header("Location: login.php?error=incorrect username or password");
    header("Location: login.php");
function sanitize_input($data) {
    $data = trim($data);
    $data = stripslashes($data);
    $data = htmlspecialchars($data);
    return $data:
```

```
</form>
<script>

function validateForm() {
    var email = document.getElementById("inputemail").value;
    var emailRegex = /^[\w-\.]+@([\w-]+\.)+[\w-]{2,4}$/g;

    if (!emailRegex.test(email)) {
        alert("Invalid email address.");
         return false;
    }
    return true;
}
</script>
</body>
```