Data & Information Management Aphyba Yasmine Assanvo

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Dr. Peter Drewes

Final Project

Congratulations, you have been hired by a wine distribution company in Dallas. They have provided you with the information about the wine and the orders from their customers. They are interested in answers to the questions, but as a good database developer you are as concerned with organizing and making the SQL code neat.

The data and definitions are below. The questions might be adjusted per lectures. But no later than 2 weeks before the due date of the project.

Information about the wine

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| WINE | Retail Price/bottle | Cost / bottle | Bottles / Case | Initial Inventory |
| Bordeaux White | $10.5 | $8.5 | 12 | 500 |
| Burgundy White | $14.75 | $12 | 6 | 500 |
| Italian Red | $9.00 | $8 | 12 | 600 |
| French Red | $11.00 | $9.5 | 12 | 500 |
| Napa Red | $13.00 | $11.5 | 6 | 500 |
| Dessert Wine | $18.50 | $16.25 | 6 | 500 |
| Prosecco | $12.55 | $11.00 | 6 | 500 |

Italian Restaurant

2325 6th St Fort Worth

817-232-1345

2020 Invoice Summary

(Cases)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Month | Bordeaux White | Burgundy White | Italian Red | French Red | Napa Red | Dessert Wine | Prosecco |
| Jan | 2 | 1 | 2 | 4 | 2 | 0 | 0 |
| Feb | 3 |  | 3 | 3 | 2 | 0 | 0 |
| Mar | 1 | 1 | 4 | 3 | 2 | 1 | 0 |
| April | 2 |  | 3 | 4 | 2 | 2 | 0 |
| May | 1 |  | 4 | 3 | 1 | 1 | 1 |
| June | 3 |  | 3 | 4 | 2 | 1 | 1 |
| July | 2 | 1 | 3 | 5 | 2 | 0 | 1 |
| August | 1 |  | 5 | 5 | 2 | 0 | 1 |
| Sept | 1 |  | 3 | 5 | 1 | 0 | 1 |
| Oct | 2 | 2 | 3 | 5 | 2 | 1 | 2 |
| Nov | 4 |  | 6 | 6 | 2 | 1 | 2 |
| Dec | 3 |  | 3 | 6 | 1 | 1 | 2 |

The Seafood Joint

1900 7th St Fort Worth

817-231-9999

2020 Invoice Summary

(Cases)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Month | Bordeaux White | Burgundy White | Italian Red | French Red | Napa Red | Dessert Wine | Prosecco |
| Jan |  |  | 2 |  |  |  | 2 |
| Feb |  |  | 2 |  |  |  | 2 |
| Mar |  |  | 2 |  |  |  | 3 |
| April |  |  | 2 |  |  |  | 4 |
| May |  |  | 3 |  |  |  | 3 |
| June |  |  | 3 |  |  |  | 2 |
| July |  |  | 3 |  |  |  | 3 |
| August |  |  | 3 |  |  |  | 5 |
| Sept |  |  | 2 |  |  |  | 4 |
| Oct |  |  | 3 |  |  |  | 3 |
| Nov |  |  | 2 |  |  |  | 2 |
| Dec |  |  | 3 |  |  |  | 1 |

Ralphs food and wine

5523 Camp bowie Road Dallas, Tx

817-229-4568

2020 Invoice Summary

(Cases)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Month | Bordeaux White | Burgundy White | Italian Red | French Red | Napa Red | Dessert Wine | Prosecco |
| Jan |  |  | 1 |  |  |  | 1 |
| Feb | 1 |  |  | 1 |  |  |  |
| Mar |  |  | 2 | 1 |  |  |  |
| April |  |  |  |  |  |  |  |
| May |  |  | 1 |  |  |  |  |
| June | 1 |  |  | 1 |  |  |  |
| July |  |  |  |  |  |  |  |
| August |  |  | 1 | 1 |  |  |  |
| Sept |  |  |  |  |  |  |  |
| Oct |  |  | 1 |  |  |  | 1 |
| Nov | 1 |  |  | 1 |  |  |  |
| Dec |  |  |  |  |  |  | 1 |

The Wine shop

123 Main Street, Commerce, Tx

321-999-4528

2020 Invoice Summary

(Cases)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Month | Bordeaux White | Burgundy White | Italian Red | French Red | Napa Red | Dessert Wine | Prosecco |
| Jan |  |  | 1 |  |  |  | 1 |
| Feb | 1 | 2 | 2 |  | 3 |  |  |
| Mar |  |  | 3 |  |  | 1 |  |
| April |  | 2 |  |  |  | 1 |  |
| May |  |  | 2 |  | 4 |  |  |
| June | 1 |  |  |  |  |  |  |
| July |  |  |  |  |  |  |  |
| August | 1 | 2 | 1 |  | 3 |  |  |
| Sept | 1 |  |  |  |  | 1 |  |
| Oct | 1 | 2 | 1 |  | 2 |  | 1 |
| Nov |  |  |  |  |  |  |  |
| Dec | 1 |  |  |  |  |  | 1 |

Build out the ERD diagrams for the entire solution based on the following questions (you must have at least 3 tables for full credit, there is no limit based on your simplification of the data. The simplification of the data should follow the in-class examples of data, with no duplication in tables)

Diagram

Description automatically generated

Provide

1. The Oracle code (within the word document) to build the database and tables

CREATE TABLE Wines

( wineID number(10) DEFAULT 0 NOT NULL,

WineName nvarchar2(50) DEFAULT 0 NOT NULL,

RetailPricePerBottle number DEFAULT 0 NOT NULL,

CostPerBottle number DEFAULT 0 NOT NULL,

BottlePerCase number DEFAULT 0 NOT NULL,

Init\_Inventory number(10) DEFAULT 0 NOT NULL,

PRIMARY KEY (WineID)

);

A screenshot of a computer

Description automatically generated

CREATE TABLE Business\_Customers

( CustomerID number(10) DEFAULT 0 NOT NULL,

CustomerBusinessName nvarchar2(50) DEFAULT 0 NOT NULL,

CustomerStreetAdd nvarchar2(50) DEFAULT 0 NOT NULL,

CustomerCity nvarchar2(50) DEFAULT 0 NOT NULL,

CustomerState nvarchar2(2) DEFAULT 0 NOT NULL,

CustomerZip nvarchar2(10),

CustomerPhoneNumber nvarchar2(14),

PRIMARY KEY (CustomerID) );

A screenshot of a computer

Description automatically generated

CREATE TABLE Orders

( OrderNumber number(10)DEFAULT 0 NOT NULL,

CustomerID number(10),

OrderMonth nvarchar2(20) NOT NULL,

WineID number(10) DEFAULT 0 NOT NULL,

NumberOfCasesOrdered number(10),

PRIMARY KEY (OrderNumber)

);

A screenshot of a computer

Description automatically generated

INSERT INTO WInes

( WineID, WineName, RetailPricePerBottle, CostPerBottle, BottlePerCase, Init\_Inventory)

VALUES (1, 'Bordeaux White', 10.5, 8.5, 12, 500);

INSERT INTO Wines

( WineID, WineName, RetailPricePerBottle, CostPerBottle, BottlePerCase, Init\_Inventory)

VALUES (2, 'Burgandy White', 14.75, 12, 6, 500);

INSERT INTO Wines

( WineID, WineName, RetailPricePerBottle, CostPerBottle, BottlePerCase, Init\_Inventory)

VALUES (3, 'Italian Red', 9, 8, 12, 600);

INSERT INTO Wines

( WineID, WineName, RetailPricePerBottle, CostPerBottle, BottlePerCase, Init\_Inventory)

VALUES (4, 'French Red', 11, 9.5, 12, 500);

INSERT INTO Wines

( WineID, WineName, RetailPricePerBottle, CostPerBottle, BottlePerCase, Init\_Inventory)

VALUES (5, 'Napa Red', 13, 11.5, 6, 500);

INSERT INTO Wines

( WineID, WineName, RetailPricePerBottle, CostPerBottle, BottlePerCase, Init\_Inventory)

VALUES (6, 'Dessert Wine', 18.5, 16.25, 6, 500);

INSERT INTO Wines

( WineID, WineName, RetailPricePerBottle, CostPerBottle, BottlePerCase, Init\_Inventory)

VALUES (7, 'Prosecco', 12.55, 11, 6, 500);

INSERT INTO Business\_Customers

(CustomerID, CustomerBusinessName, CustomerStreetAdd, CustomerCity, CustomerState, CustomerPhoneNumber)

VALUES(1, 'Italian Restaurant', '2325 6th St', 'Fort Worth', 'TX', '817-232-1345');

INSERT INTO Business\_Customers

(CustomerID, CustomerBusinessName, CustomerStreetAdd, CustomerCity, CustomerState, CustomerPhoneNumber)

VALUES(2, 'The Seafood Joint', '1900 7th St', 'Fort Worth', 'TX', '817-231-9999');

INSERT INTO Business\_Customers

(CustomerID, CustomerBusinessName, CustomerStreetAdd, CustomerCity, CustomerState, CustomerPhoneNumber)

VALUES(3, 'Ralphs food and Wine', '5523 Camp bowie Road', 'Dallas', 'TX', '817-229-4568');

INSERT INTO Business\_Customers

(CustomerID, CustomerBusinessName, CustomerStreetAdd, CustomerCity, CustomerState, CustomerPhoneNumber)

VALUES(4, 'The Wine shop', '123 Main Street', 'Commerce', 'TX', '321-999-4528');

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (1, 1, 'January', 1, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (2, 1, 'January', 2, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (3, 1, 'January', 3, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (4, 1, 'January', 4, 4 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (5, 1, 'January', 5, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (6, 2, 'January', 3, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (7, 2, 'January', 7, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (8, 3, 'January', 3, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (9, 3, 'January', 7, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (10, 4, 'January', 3, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (11, 4, 'January', 7, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (12, 1, 'February', 1, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (13, 1, 'February', 3, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (14, 1, 'February', 4, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (15, 1, 'February', 5, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (16, 2, 'February', 3, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (17, 2, 'February', 7, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (18, 3, 'February', 1, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (19, 3, 'February', 4, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (20, 4, 'February', 1, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (21, 4, 'February', 2, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (22, 4, 'February', 3, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (23, 4, 'February', 5, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (24, 1, 'March', 1, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (25, 1, 'March', 2, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (26, 1, 'March', 3, 4 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (27, 1, 'March', 4, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (28, 1, 'March', 5, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (29, 1, 'March', 6, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (30, 2, 'March', 3, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (31, 2, 'March', 7, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (32, 3, 'March', 3, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (33, 3, 'March', 4, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (34, 4, 'March', 3, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (35, 4, 'March', 6, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (36, 1, 'April', 1, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (37, 1, 'April', 3, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (38, 1, 'April', 4, 4 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (39, 1, 'April', 5, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (40, 1, 'April', 6, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (41, 2, 'April', 3, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (42, 2, 'April', 7, 4 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (43, 4, 'April', 2, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (44, 4, 'April', 6, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (45, 1, 'May', 1, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (46, 1, 'May', 3, 4 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (47, 1, 'May', 4, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (48, 1, 'May', 5, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (49, 1, 'May', 6, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (50, 1, 'May', 7, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (51, 2, 'May', 3, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (52, 2, 'May', 7, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (53, 3, 'May', 3, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (54, 4, 'May', 3, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (55, 4, 'May', 5, 4 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (56, 1, 'June', 1, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (57, 1, 'June', 3, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (58, 1, 'June', 4, 4 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (59, 1, 'June', 5, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (60, 1, 'June', 6, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (61, 1, 'June', 7, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (62, 2, 'June', 3, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (63, 2, 'June', 7, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (64, 3, 'June', 1, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (65, 3, 'June', 4, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (66, 4, 'June', 1, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (67, 1, 'July', 1, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (68, 1, 'July', 2, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (69, 1, 'July', 3, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (70, 1, 'July', 4, 5 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (71, 1, 'July', 5, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (72, 1, 'July', 7, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (73, 2, 'July', 3, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (74, 1, 'July', 7, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (75, 1, 'August', 1, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (76, 1, 'August', 3, 5 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (77, 1, 'August', 4, 5 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (78, 1, 'August', 5, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (79, 1, 'August', 7, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (80, 2, 'August', 3, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (81, 2, 'August', 7, 5 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (82, 3, 'August', 3, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (83, 3, 'August', 4, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (84, 4, 'August', 1, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (85, 4, 'August', 2, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (86, 4, 'August', 3, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (87, 4, 'August', 5, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (88, 1, 'September', 1, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (89, 1, 'September', 3, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (90, 1, 'September', 4, 5 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (91, 1, 'September', 5, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (92, 1, 'September', 7, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (93, 2, 'September', 3, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (94, 2, 'September', 7, 4 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (95, 4, 'September', 1, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (96, 4, 'September', 6, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (97, 1, 'October', 1, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (98, 1, 'October', 2, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (99, 1, 'October', 3, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (100, 1, 'October', 4, 5 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (101, 1, 'October', 5, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (102, 1, 'October', 6, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (103, 1, 'October', 7, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (104, 2, 'October', 3, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (105, 2, 'October', 7, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (106, 3, 'October', 3, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (107, 3, 'October', 7, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (108, 4, 'October', 1, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (109, 4, 'October', 2, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (110, 4, 'October', 3, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (111, 4, 'October', 5, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (112, 4, 'October', 7, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (113, 1, 'November', 1, 4 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (114, 1, 'November', 3, 6 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (115, 1, 'November', 4, 6 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (116, 1, 'November', 5, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (117, 1, 'November', 6, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (118, 1, 'November', 7, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (119, 2, 'November', 3, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (120, 2, 'November', 7, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (121, 3, 'November', 1, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (122, 3, 'November', 4, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (123, 1, 'December', 1, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (124, 1, 'December', 3, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (125, 1, 'December', 4, 6 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (126, 1, 'December', 5, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (127, 1, 'December', 6, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (128, 1, 'December', 7, 2 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (129, 2, 'December', 3, 3 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (130, 2, 'December', 7, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (131, 3, 'December', 7, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (132, 4, 'December', 1, 1 );

INSERT INTO Orders

(OrderNumber, CustomerID, OrderMonth, WineID, NumberOfCasesOrdered)

VALUES (133, 4, 'December', 7, 1 );

Graphical user interface, application

Description automatically generated

1. The Oracle code (within the word document) to answer each of the following questions
2. Provide screen shots answering each question along with any supporting text
3. What is the total revenue for the year?

SELECT sum(WINES.RetailPricePerBottle \* WINES.BottlePerCase \* ORDERS.NumberOfCasesOrdered) as Yearly\_Total\_Revenue

FROM WINES, ORDERS

WHERE WINES.WINEID = ORDERS.WINEID;

A screenshot of a computer

Description automatically generated

1. What is the gross profit for the year?

SELECT sum(WINES.RetailPricePerBottle \* WINES.BottlePerCase \* ORDERS.NumberOfCasesOrdered) - (sum(WINES.CostPerBottle \* WINES.BottlePerCase \* ORDERS.NumberOfCasesOrdered))

 As Yearly\_Gross\_Profit FROM WINES inner join  ORDERS

ON WINES.WINEID = ORDERS.WINEID;

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Description automatically generated

1. How much revenue did each wine provide for the year?

SELECT WINES.WineName,  sum(WINES.RetailPricePerBottle \* WINES.BottlePerCase \* ORDERS.NumberOfCasesOrdered)

from WINES INNER JOIN ORDERS ON WINES.WINEID = ORDERS.WINEID

GROUP BY WINES.WineName

ORDER BY WINES.WineName;

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Description automatically generated

1. What is the Average revenue per month per location for the year?

SELECT  Business\_Customers.CustomerBusinessName AS Location,  (sum (WINES.RetailPricePerBottle \* WINES.BottlePerCase \* ORDERS.NumberOfCasesOrdered)) / 12 AS Average\_Monthly\_Revenue

from  BUSINESS\_CUSTOMERS INNER JOIN ORDERS ON BUSINESS\_CUSTOMERS.CUSTOMERID = ORDERS.CUSTOMERID INNER JOIN WINES ON WINES.WINEID = ORDERS.WINEID

group by  Business\_Customers.CustomerBusinessName;

A screenshot of a computer

Description automatically generated

1. What is the final inventory of the Italian Red wine?

SELECT wines.WineName, (wines.INIT\_INVENTORY  - SUM (orders.NumberOfCasesOrdered) ) AS Final\_Inventory\_ItalianRed

FROM orders INNER JOIN wines on wines.WINEID = orders.WINEID

WHERE Wines.WineName = 'Italian Red'

GROUP BY wines.WineName, wines.INIT\_INVENTORY ;

A screenshot of a computer

Description automatically generated

1. If the retail price of the wine increases by 10%, what is the gross profit margin ? (via cost/retail)

SELECT (Increased\_GrossProfit / Increased\_Revenue) AS Gross\_Profit\_Margin

FROM

   (SELECT sum((WINES.RetailPricePerBottle + WINES.RetailPricePerBottle \* 0.1) \* WINES.BottlePerCase \* ORDERS.NumberOfCasesOrdered) - (sum(WINES.CostPerBottle \* WINES.BottlePerCase \* ORDERS.NumberOfCasesOrdered))

     as Increased\_GrossProfit FROM WINES inner join  ORDERS ON WINES.WINEID = ORDERS.WINEID),

   (SELECT (sum((WINES.RetailPricePerBottle + WINES.RetailPricePerBottle \* 0.1) \* WINES.BottlePerCase \* ORDERS.NumberOfCasesOrdered)) as Increased\_Revenue FROM WINES inner join  ORDERS ON WINES.WINEID = ORDERS.WINEID);

A screenshot of a computer

Description automatically generated

1. How many bottles of the different wines were ordered in July?

select wines.WineName, sum(orders.NUMBEROFCASESORDERED \* wines.BottlePerCase) AS July\_Orders

from orders INNER JOIN wines on wines.WINEID = orders.WINEID

where orders.ORDERMONTH = 'July'

GROUP by wines.WineName;

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Description automatically generated

1. What is the revenue per year per restaurant?

SELECT  Business\_Customers.CustomerBusinessName AS Restaurants, SUM (WINES.RetailPricePerBottle \* WINES.BottlePerCase \* ORDERS.NumberOfCasesOrdered) AS Yearly\_Revenue\_Per\_Restaurant

FROM  BUSINESS\_CUSTOMERS INNER JOIN ORDERS ON BUSINESS\_CUSTOMERS.CUSTOMERID = ORDERS.CUSTOMERID INNER JOIN WINES ON WINES.WINEID = ORDERS.WINEID

GROUP BY  Business\_Customers.CustomerBusinessName;

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Description automatically generated