**BUSA 326/526**

**Fall 2021**

**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)

Provide

1. The Oracle code (within the word document) to build the database and tables
2. The Oracle code (within the word document) to answer each of the following questions
3. Provide screen shots answering each question along with any supporting text

Questions :

1. What is the total revenue for the year?
2. What is the gross profit for the year?
3. How much revenue did each wine provide for the year?
4. What is the Average revenue per month per location for the year?
5. What is the final inventory of the Italian Red wine?
6. If the retail price of the wine increases by 10%, what is the gross profit margin ? (via cost/retail)
7. How many bottles of the different wines were ordered in July?
8. What is the revenue per year per restaurant?