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.

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

CREATE THE WINE TABLE

CREATE TABLE WINE(

WINE varchar(30),

Retail\_Price decimal (5,2),

Cost\_Price decimal (5,2),

Bottles\_case INTEGER,

INITIAL\_INVENTORY INTEGER);

INSERT INTO WINE(WINE, Retail\_Price, Cost\_Price, Bottles\_case , INITIAL\_INVENTORY)

VALUES ('BORDEAUX\_WHITE', 10.5, 8.5, 12, 500);

INSERT INTO WINE (WINE, Retail\_Price, Cost\_Price, Bottles\_case , INITIAL\_INVENTORY)

VALUES ('BURGUNDRY\_WHITE', 14.75, 12, 6, 500);

INSERT INTO WINE (WINE, Retail\_Price, Cost\_Price, Bottles\_case , INITIAL\_INVENTORY)

VALUES ('ITALIAN\_RED', 9, 8, 12, 600);

INSERT INTO WINE (WINE, Retail\_Price, Cost\_Price, Bottles\_case , INITIAL\_INVENTORY)

VALUES ('FRENCH\_RED', 11, 9.5, 12, 500);

INSERT INTO WINE (WINE, Retail\_Price, Cost\_Price, Bottles\_case , INITIAL\_INVENTORY)

VALUES ('NAPA\_RED', 13, 11.5, 6, 500);

INSERT INTO WINE( WINE, Retail\_Price, Cost\_Price, Bottles\_case , INITIAL\_INVENTORY)

VALUES ('DESSERT\_WINE', 18.50, 16.25, 6, 500);

INSERT INTO WINE (WINE, Retail\_Price, Cost\_Price, Bottles\_case , INITIAL\_INVENTORY)

VALUES ('PROSECO', 12.55, 11, 6, 500);

**CREATE THE ITALIAN\_RESTAURANT**

CREATE TABLE ITALIAN\_RESTAURANT(

  MONTH varchar(30),

  BORDEAUX\_WHITE INTEGER,

  BURGUNDRY\_WHITE INTEGER,

  ITALIAN\_RED  INTEGER,

  FRENCH\_RED INTEGER,

  NAPA\_RED INTEGER,

  DESSERT\_WINE INTEGER,

  Proseco INTEGER);

INSERT INTO ITALIAN\_RESTAURANT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Jan', 2, 1, 2, 4, 2, 0, 0)

INSERT INTO ITALIAN\_RESTAURANT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Feb', 3, NULL, 3, 3, 2, 0, 0);

INSERT INTO ITALIAN\_RESTAURANT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Mar', 1, 1, 4, 3, 2, 1, 0);

INSERT INTO ITALIAN\_RESTAURANT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('April', 2, Null, 3, 4, 2, 2, 0);

INSERT INTO ITALIAN\_RESTAURANT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

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

INSERT INTO ITALIAN\_RESTAURANT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('June', 3, Null, 3, 4, 2, 1, 1);

INSERT INTO ITALIAN\_RESTAURANT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('July', 2, 1, 3, 5, 2, 0, 1);

INSERT INTO ITALIAN\_RESTAURANT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Aug', 1, NUll, 5, 5, 2, 0, 1);

INSERT INTO ITALIAN\_RESTAURANT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Sept', 1, Null, 3, 5, 1, 0, 1);

INSERT INTO ITALIAN\_RESTAURANT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Oct', 2, 2, 3, 5, 2, 1, 2);

INSERT INTO ITALIAN\_RESTAURANT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Nov', 4, Null, 6, 6, 2, 1, 2);

INSERT INTO ITALIAN\_RESTAURANT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Dec', 3, Null, 3, 6, 1, 1, 2);

**CREATE TABLE FOR THE\_SEAFOOD\_JOINT**

CREATE TABLE SEAFOODJOINT(

MONTH varchar(30),

BORDEAUX\_WHITE INTEGER,

BURGUNDRY\_WHITE INTEGER,

ITALIAN\_RED INTEGER,

FRENCH\_RED INTEGER

NAPA\_RED INTEGER,

DESSERT\_WINE INTEGER,

Proseco INTEGER);

INSERT INTO SEAFOODJOINT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Jan', NULL, NULL, 2, NULL, NULL, NULL, 2);

INSERT INTO SEAFOODJOINT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Feb', NULL, NULL, 2, NULL, NULL, NULL, 2);

INSERT INTO SEAFOODJOINT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

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

INSERT INTO SEAFOODJOINT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

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

INSERT INTO SEAFOODJOINT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('May', NULL, NULL, 3, NULL, NULL, NULL, 3);

INSERT INTO SEAFOODJOINT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

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

INSERT INTO SEAFOODJOINT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('July', NULL, NULL, 3, NULL, NULL, NULL, 3);

INSERT INTO SEAFOODJOINT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Aug', NULL, NULL, 3, NULL, NULL, NULL, 5);

INSERT INTO SEAFOODJOINT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Sept', NULL, NULL, 2, NULL, NULL, NULL, 4);

INSERT INTO SEAFOODJOINT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Oct', NULL, NULL, 3, NULL, NULL, NULL, 3);

INSERT INTO SEAFOODJOINT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Nov', NULL, NULL, 2, NULL, NULL, NULL, 2);

INSERT INTO SEAFOODJOINT (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Dec', NULL, NULL, 3, NULL, NULL, NULL, 1);

**CREATE THE RALPHS\_FOOD\_WINE**

CREATE TABLE RALPHS\_FOOD\_WINE(

 MONTH varchar(30),

  BORDEAUX\_WHITE INTEGER,

  BURGUNDRY\_WHITE INTEGER,

  ITALIAN\_RED  INTEGER,

  FRENCH\_RED INTEGER,

  NAPA\_RED INTEGER,

  DESSERT\_WINE INTEGER,

  Proseco INTEGER);

INSERT INTO RALPHS\_FOOD\_WINE (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Jan', NULL, NULL, 1, Null, NULL, NULL, 1);

INSERT INTO RALPHS\_FOOD\_WINE (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Feb', 1, NULL, Null, 1, NULL, NULL, Null);

INSERT INTO RALPHS\_FOOD\_WINE (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('March', NULL, NULL, 2, 1, NULL, NULL, Null);

INSERT INTO RALPHS\_FOOD\_WINE (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('April', NULL, NULl, NULL, NULL, NULL, NULL, NULL);

INSERT INTO RALPHS\_FOOD\_WINE (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

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

INSERT INTO RALPHS\_FOOD\_WINE (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('June', 1, NULL, NULL, 1, NULL, NULL, Null);

INSERT INTO RALPHS\_FOOD\_WINE (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('July', NULL, NULL, Null, NUll, NULL, NULL, Null);

INSERT INTO RALPHS\_FOOD\_WINE (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

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

INSERT INTO RALPHS\_FOOD\_WINE (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Sept', NULL, NULl, NULL, NUll, NULL, NULL, NULL);

INSERT INTO RALPHS\_FOOD\_WINE (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Oct', NULL, NULL, 1, NUll, NULL, NULL, 1);

INSERT INTO RALPHS\_FOOD\_WINE (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Nov', 1, NULl, NULL, 1, NULL, NULL, NULL);

INSERT INTO RALPHS\_FOOD\_WINE (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Dec', NULL, NULL, Null, NULL, NULL, NULL, 1);

**CREATE\_THE\_WINE\_SHOP**

CREATE TABLE THE\_WINE\_SHOP(

MONTH varchar(30),

BORDEAUX\_WHITE INTEGER,

BURGUNDRY\_WHITE INTEGER,

ITALIAN\_RED INTEGER,

FRENCH\_RED INTEGER,

NAPA\_RED INTEGER,

DESSERT\_WINE INTEGER,

Proseco INTEGER);

INSERT INTO THE\_WINE\_SHOP (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Jan', NULL, NULl, 1, NULL, NULL, NULL, 1);

INSERT INTO THE\_WINE\_SHOP(MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Feb', 1, 2, 2, NULL, 3, NULL, NULL);

INSERT INTO THE\_WINE\_SHOP (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Mar', NULL, NULl, 3, NULL, NULL, 1, NULL);

INSERT INTO THE\_WINE\_SHOP(MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('April', Null, 2, NULL, NULL, NULL, 1, NULL);

INSERT INTO THE\_WINE\_SHOP(MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('May', NULL, NULL, 2, NULL, 4, NULL, Null);

INSERT INTO THE\_WINE\_SHOP (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('June', 1, NULL, NULL, NUll, NULL, NULL, NULL);

INSERT INTO THE\_WINE\_SHOP (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('July', NULL, NULl, NULL, NULL, NULL, NULL, NULL);

INSERT INTO THE\_WINE\_SHOP(MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('August', 1, 2, 1, NULL, 3, NULL, NULL);

INSERT INTO THE\_WINE\_SHOP(MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Sept', 1, NULL, NUll, NULL, NULL, 1, Null);

INSERT INTO THE\_WINE\_SHOP (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Oct', 1, 2, 1, NUll, 2, NULL, 1);

INSERT INTO THE\_WINE\_SHOP (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

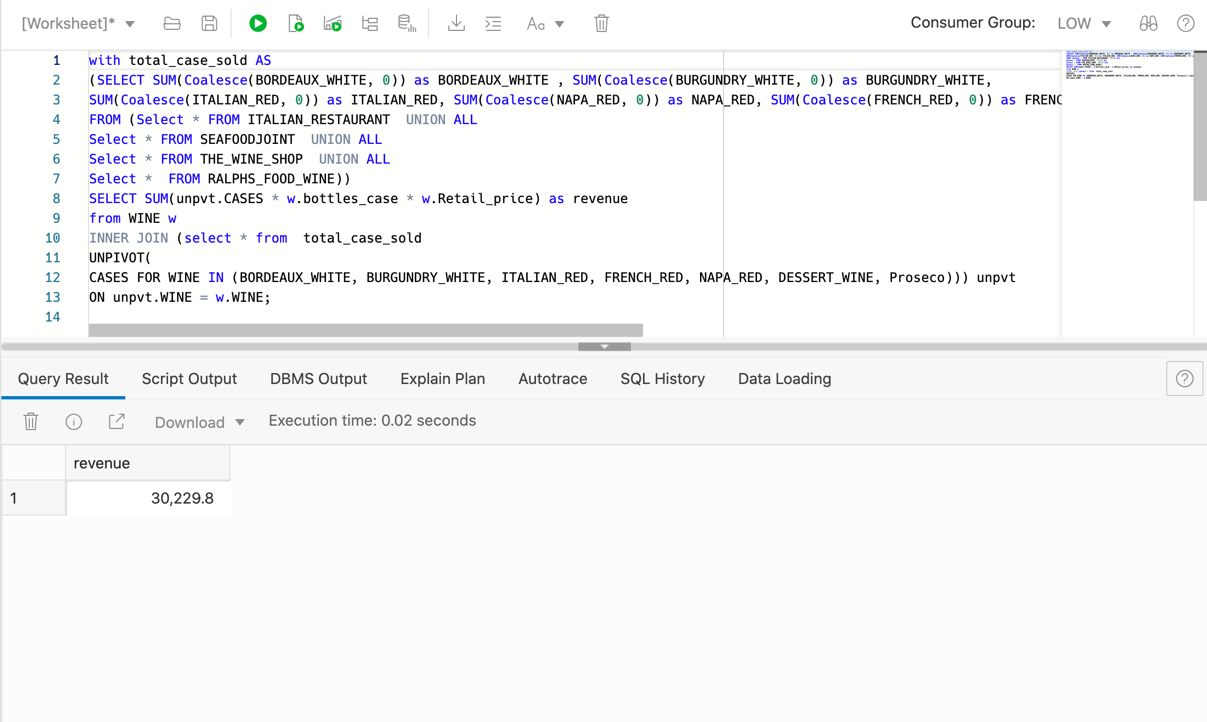
VALUES ('Nov', NULL, NULL, NULL, NUll, NULL, NULL, NULL);

INSERT INTO THE\_WINE\_SHOP (MONTH, BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco)

VALUES ('Dec', 1, NULL, NULL, NUll, NULL, NULL, 1);

1. What is the total revenue for the year?

**ScreenShot**



**Code**

with total\_case\_sold AS

(SELECT SUM(Coalesce(BORDEAUX\_WHITE, 0)) as BORDEAUX\_WHITE , SUM(Coalesce(BURGUNDRY\_WHITE, 0)) as BURGUNDRY\_WHITE,

SUM(Coalesce(ITALIAN\_RED, 0)) as ITALIAN\_RED, SUM(Coalesce(NAPA\_RED, 0)) as NAPA\_RED, SUM(Coalesce(FRENCH\_RED, 0)) as FRENCH\_RED, SUM(Coalesce(Proseco, 0)) as PROSECO, SUM(Coalesce(DESSERT\_WINE, 0)) as DESSERT\_WINE

FROM (Select \* FROM ITALIAN\_RESTAURANT UNION ALL

Select \* FROM SEAFOODJOINT UNION ALL

Select \* FROM THE\_WINE\_SHOP UNION ALL

Select \* FROM RALPHS\_FOOD\_WINE))

SELECT SUM(unpvt.CASES \* w.bottles\_case \* w.Retail\_price) as revenue

from WINE w

INNER JOIN (select \* from total\_case\_sold

UNPIVOT(

CASES FOR WINE IN (BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco))) unpvt

ON unpvt.WINE = w.WINE;

1. What is the gross profit for the year?

Gross\_profit:

Graphical user interface, text, application

Description automatically generated

with total\_case\_sold AS

(SELECT SUM(Coalesce(BORDEAUX\_WHITE, 0)) as BORDEAUX\_WHITE , SUM(Coalesce(BURGUNDRY\_WHITE, 0)) as BURGUNDRY\_WHITE,

SUM(Coalesce(ITALIAN\_RED, 0)) as ITALIAN\_RED, SUM(Coalesce(NAPA\_RED, 0)) as NAPA\_RED, SUM(Coalesce(FRENCH\_RED, 0)) as FRENCH\_RED, SUM(Coalesce(Proseco, 0)) as PROSECO, SUM(Coalesce(DESSERT\_WINE, 0)) as DESSERT\_WINE

FROM (Select \* FROM ITALIAN\_RESTAURANT UNION ALL

Select \* FROM SEAFOODJOINT UNION ALL

Select \* FROM THE\_WINE\_SHOP UNION ALL

Select \* FROM RALPHS\_FOOD\_WINE))

SELECT SUM(unpvt.CASES \* w.bottles\_case \* w.Retail\_price)- SUM(unpvt.CASES\*w.BOTTLES\_CASE\*w.COST\_PRICE) as gross\_profit

from WINE w

INNER JOIN (select \* from total\_case\_sold

UNPIVOT(

CASES FOR WINE IN (BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco))) unpvt

ON unpvt.WINE = w.WINE;

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

with total\_case\_sold AS

(SELECT SUM(Coalesce(BORDEAUX\_WHITE, 0)) as BORDEAUX\_WHITE , SUM(Coalesce(BURGUNDRY\_WHITE, 0)) as BURGUNDRY\_WHITE,

SUM(Coalesce(ITALIAN\_RED, 0)) as ITALIAN\_RED, SUM(Coalesce(NAPA\_RED, 0)) as NAPA\_RED, SUM(Coalesce(FRENCH\_RED, 0)) as FRENCH\_RED, SUM(Coalesce(Proseco, 0)) as PROSECO, SUM(Coalesce(DESSERT\_WINE, 0)) as DESSERT\_WINE

FROM (Select \* FROM ITALIAN\_RESTAURANT UNION ALL

Select \* FROM SEAFOODJOINT UNION ALL

Select \* FROM THE\_WINE\_SHOP UNION ALL

Select \* FROM RALPHS\_FOOD\_WINE))

SELECT w.wine, unpvt.CASES \* w.bottles\_case \* w.Retail\_price as revenue

from WINE w

INNER JOIN (select \* from total\_case\_sold

UNPIVOT(

CASES FOR WINE IN (BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco))) unpvt

ON unpvt.WINE = w.WINE;

Screen\_Shot:

Graphical user interface, text, application

Description automatically generated

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

with total\_case\_sold AS

(SELECT SUM(Coalesce(BORDEAUX\_WHITE, 0)) as BORDEAUX\_WHITE , SUM(Coalesce(BURGUNDRY\_WHITE, 0)) as BURGUNDRY\_WHITE,

SUM(Coalesce(ITALIAN\_RED, 0)) as ITALIAN\_RED, SUM(Coalesce(NAPA\_RED, 0)) as NAPA\_RED, SUM(Coalesce(FRENCH\_RED, 0)) as FRENCH\_RED, SUM(Coalesce(Proseco, 0)) as PROSECO, SUM(Coalesce(DESSERT\_WINE, 0)) as DESSERT\_WINE

FROM (Select \* FROM ITALIAN\_RESTAURANT UNION ALL

Select \* FROM SEAFOODJOINT UNION ALL

Select \* FROM THE\_WINE\_SHOP UNION ALL

Select \* FROM RALPHS\_FOOD\_WINE))

SELECT SUM(unpvt.CASES \* w.bottles\_case \* w.Retail\_price)/(12\*4) as Avg\_reveune\_month\_location

from WINE w

INNER JOIN (select \* from total\_case\_sold

UNPIVOT(

CASES FOR WINE IN (BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco))) unpvt

ON unpvt.WINE = w.WINE;

Screen\_Shot

Graphical user interface, text, application

Description automatically generated

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

Graphical user interface, text, application, email

Description automatically generated

with total\_case\_sold AS

(SELECT SUM(Coalesce(BORDEAUX\_WHITE, 0)) as BORDEAUX\_WHITE , SUM(Coalesce(BURGUNDRY\_WHITE, 0)) as BURGUNDRY\_WHITE,

SUM(Coalesce(ITALIAN\_RED, 0)) as ITALIAN\_RED, SUM(Coalesce(NAPA\_RED, 0)) as NAPA\_RED, SUM(Coalesce(FRENCH\_RED, 0)) as FRENCH\_RED, SUM(Coalesce(Proseco, 0)) as PROSECO, SUM(Coalesce(DESSERT\_WINE, 0)) as DESSERT\_WINE

FROM (Select \* FROM ITALIAN\_RESTAURANT UNION ALL

Select \* FROM SEAFOODJOINT UNION ALL

Select \* FROM THE\_WINE\_SHOP UNION ALL

Select \* FROM RALPHS\_FOOD\_WINE))

SELECT (SUM(unpvt.CASES \* w.bottles\_case \* w.Retail\_price\*1.10)- SUM(unpvt.CASES\*w.BOTTLES\_CASE\*w.COST\_PRICE))/SUM(unpvt.CASES \* w.bottles\_case \* w.Retail\_price\*1.10)\*100 as margin\_profit\_10p

from WINE w

INNER JOIN (select \* from total\_case\_sold

UNPIVOT(

CASES FOR WINE IN (BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco))) unpvt

ON unpvt.WINE = w.WINE;

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

with total\_case\_sold AS

(SELECT SUM(Coalesce(BORDEAUX\_WHITE, 0)) as BORDEAUX\_WHITE , SUM(Coalesce(BURGUNDRY\_WHITE, 0)) as BURGUNDRY\_WHITE,

SUM(Coalesce(ITALIAN\_RED, 0)) as ITALIAN\_RED, SUM(Coalesce(NAPA\_RED, 0)) as NAPA\_RED, SUM(Coalesce(FRENCH\_RED, 0)) as FRENCH\_RED, SUM(Coalesce(Proseco, 0)) as PROSECO, SUM(Coalesce(DESSERT\_WINE, 0)) as DESSERT\_WINE

FROM (Select \* FROM ITALIAN\_RESTAURANT UNION ALL

Select \* FROM SEAFOODJOINT UNION ALL

Select \* FROM THE\_WINE\_SHOP UNION ALL

Select \* FROM RALPHS\_FOOD\_WINE)

WHERE MONTH = 'July')

SELECT w.wine, unpvt.CASES \* w.bottles\_case as total\_bottles

from WINE w

INNER JOIN (select \* from total\_case\_sold

UNPIVOT(

CASES FOR WINE IN (BORDEAUX\_WHITE, BURGUNDRY\_WHITE, ITALIAN\_RED, FRENCH\_RED, NAPA\_RED, DESSERT\_WINE, Proseco))) unpvt

ON unpvt.WINE = w.WINE;

Screenshot

Graphical user interface, text

Description automatically generated