```
/*
Noah Zhou Lab 8
CNIT 392 Spring 2024
Software Used: Oracle SQL Developer
*/

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************************************************************************
********
--Question 1
--Display the product type (ProdType) and the number of products in each
type.

SELECT ProdType, SUM(Available_Quantity) AS Available_Quantity
FROM Product
GROUP BY ProdType;

/*
Results:
PRODTYPE        AVAILABLE_QUANTITY
--------------- ------------------
red                           1788
white                          297
rose                           347
sparkling                      781

4 rows selected.
*/

--
************************************************************************
********
--Question 2
/*
Display the product type (ProdType) and the number of products in each
type
only when the number of products is greater than 5.
*/

SELECT DISTINCT ProdType, SUM(Available_Quantity) AS Available_Quantity
FROM Product
WHERE Available_Quantity > 5
GROUP BY ProdType;

/*
Results:
PRODTYPE        AVAILABLE_QUANTITY
--------------- ------------------
red                           1780
white                          297
rose                           347
sparkling                      780

4 rows selected.
```

```
*/

--
************************************************************************
********

--Question 3
/*
Display all supplier names (SupName) and their product names (ProdName),
sort the results in
alphabetical order on supplier name (SupName).
*/

SELECT sr.SupName, ProdName
FROM Supplier sr INNER JOIN Supplies ss
ON sr.SupNR = ss.SupNR
INNER JOIN Product p
ON ss.ProdNR = p.ProdNR
ORDER BY SupName;

/*
Results:
SUPNAME                                  PRODNAME
---------------------------------------- --------------------------------
----------------------------
Ad Fundum                                Domaine Trapet PÃ¨re & Fils,
Gevrey-Chambertin, 2008
Ad Fundum                                Meerdael, Methode Traditionnelle
Chardonnay, 2014
Ad Fundum                                Chateau Petrus, 1975
Ad Fundum                                Casa Silva, Los Lingues,
Carmenere, 2012
Best Wines                               Veuve-Cliquot, Brut, 2012
Best Wines                               Le Brun Servenay, Brut, 2008
Best Wines                               Chateau Talbot, Saint-Julien,
Grand Cru Classe, 2002
Best Wines                               Chateau Haut Brion, 2008
Best Wines                               Conde de HervÃ-as, Rioja, 2004
Best Wines                               Chateau De La Tour, Clos-
Vougeot, Grand cru, 2008
Deliwines                                Meerdael, Methode Traditionnelle
Chardonnay, 2014
Deliwines                                Chateau Miraval, Cotes de
Provence Rose, 2015
SUPNAME                                  PRODNAME
---------------------------------------- --------------------------------
----------------------------
Deliwines                                Domaine Trapet PÃ¨re & Fils,
Gevrey-Chambertin, 2008
Deliwines                                Gallo Family Vineyards,
Grenache, 2014
Deliwines                                Chateau Haut-Bailly, Pessac-
Leognan, Grand Cru Classe, 1968
```

SUPNAME	PRODNAME
Deliwines	Dominio de Pingus, Ribera del Duero, Tempranillo, 2006
Deliwines	Chateau Corbin-Despagne, Saint-Emilion, 2005
Deliwines	Chateau La Croix Saint-Michel, 2011
Deliwines	Chateau Saint EstÃ¨ve de Neri, 2015
The Wine Crate	Chateau Petrus, 1975
The Wine Crate	Jacques Selosse, Brut Initial, 2012
The Wine Crate	Chateau Haut Brion, 2008
The Wine Crate	Meerdael, Methode Traditionnelle Chardonnay, 2014
The Wine Crate	Meneghetti, Chardonnay, 2010

SUPNAME	PRODNAME
The Wine Crate	Trimbach, Riesling, 1989
The Wine Crate	Chateau Andron Blanquet, Saint Estephe, 1979
The Wine Crate	Chateau De La Tour, Clos-Vougeot, Grand cru, 2008
The Wine Depot	Domaine Trapet PÃ¨re & Fils, Gevrey-Chambertin, 2008
The Wine Depot	Chateau La Croix Saint-Michel, 2011
The Wine Depot	Billecart-Salmon, Brut RÃ©serve, 2014
The Wine Depot	Chateau des Rontets, Chardonnay, Birbettes
The Wine Depot	Meerdael, Methode Traditionnelle Chardonnay, 2014
The Wine Depot	Chateau Talbot, Saint-Julien, Grand Cru Classe, 2002
The Wine Depot	Gallo Family Vineyards, Grenache, 2014
The Wine Depot	Chateau Mouton-Rotshild, Pauillac, 2007
The Wine Depot	MoÃ«t & Chandon, RosÃ©, Imperial, 2014

SUPNAME	PRODNAME
Vinos del Mundo	Casa Silva, Los Lingues, Carmenere, 2012
Vinos del Mundo	Jacques Selosse, Brut Initial, 2012
Vinos del Mundo	Chateau Batailley, Grand Cru ClassÃ©, 1975
Vinos del Mundo	Chateau Corbin-Despagne, Saint-Emilion, 2005
Vinos del Mundo	'Clos D'Opleeuw, Chardonnay, 2012'

```
Vinos del Mundo                         Conde de HervÃas, Rioja, 2004
Vinos del Mundo                         Meerdael, Methode Traditionnelle
Chardonnay, 2014
Wine Trade Logistics                    Domaine Trapet PÃ¨re & Fils,
Gevrey-Chambertin, 2008
Wine Trade Logistics                    Chateau Petrus, 1975
Wine Trade Logistics                    Conde de HervÃas, Rioja, 2004
Wine Trade Logistics                    Veuve-Cliquot, Brut, 2012
Wine Trade Logistics                    Chateau des Rontets, Chardonnay,
Birbettes
SUPNAME                                 PRODNAME
--------------------------------------- --------------------------------
--------------------------
Wine Trade Logistics                    Champagne Boizel, Brut,
RÃ©serve, 2010
Wine Trade Logistics                    Chateau Corbin-Despagne, Saint-
Emilion, 2005
Wine Trade Logistics                    Chateau Coupe Roses, Granaxa,
2011

51 rows selected.
*/

--
*************************************************************************
********
--Question 4
--Display ONLY the supplier name (SupName) who has the most orders in
Purchase_Order table.

SELECT SupName FROM Supplier
WHERE SupNR IN
(SELECT MAX(COUNT(SupNR)) FROM Purchase_Order GROUP BY SupNR)

/*
Results:
SUPNAME
-----------------------------------------
Ad Fundum

1 row selected.
*/

--
*************************************************************************
********
--Question 5
/*
Use a MINUS statement, list product numbers (ProdNR) that are in Product
table but have never been
ordered.
*/

SELECT ProdNR FROM Product
```

```
MINUS
SELECT ProdNR FROM Po_Line

/*
Results:
PRODNR
------
0119
0154
0199
0219
0238
0265
0289
0300
0327
0331
0384
0404
PRODNR
------
0468
0474
0494
0523
0637
0760
0832
0838
0899

21 rows selected.
*/

--
**************************************************************************
********
--Question 6
/*
Display the supplier name (SupName) and purchase date (PoDate) for all
suppliers despite if an order
was ever purchased through the supplier or not. Sort the results on
supplier name in alphabetic order.
*/

SELECT SupName, PoDate
FROM Purchase_Order po RIGHT JOIN Supplier sr
ON po.SupNR = sr.SupNR
ORDER BY SupName;

/*
Results:
SUPNAME                                 PODATE
--------------------------------------- ---------
```

```
Ad Fundum                          24-MAR-15
Ad Fundum                          19-APR-15
Ad Fundum                          10-MAY-15
Ad Fundum                          13-MAY-15
Ad Fundum                          11-APR-15
Best Wines                         05-MAY-15
Best Wines                         12-APR-15
Deliwines
Spirits & co.
The Wine Crate                     10-APR-15
The Wine Depot                     01-MAY-15
Vinos del Mundo                    27-APR-15
SUPNAME                            PODATE
---------------------------------- ---------
Wine Trade Logistics

13 rows selected.
*/
--
***********************************************************************
********
--Question 7
/*
Create a view called Order_Per_Month that lists the number of purchase
orders per month. The view
needs to have two columns: month and year in one column; and number of
purchases of that month in
another column. Query the view to verify your results.
*/

CREATE VIEW Order_Per_Month AS
SELECT TO_CHAR(PoDate,'fmMONTH,YYYY')AS Month_Year, COUNT(PoNR) AS
Number_Of_Purchases
FROM Purchase_Order
GROUP BY TO_CHAR(PoDate,'fmMONTH,YYYY');

SELECT * FROM Order_Per_Month;

/*
Results:
View ORDER_PER_MONTH created.

MONTH_YEAR      NUMBER_OF_PURCHASES
-------------- -------------------
MARCH,2015                       1
APRIL,2015                       5
MAY,2015                         4

3 rows selected.
*/
--
***********************************************************************
********
--Question 8
```

```
/*
Include the following code at the end of your file: DROP VIEW
Order_Per_Month;
*/

DROP VIEW Order_Per_Month;
--
*************************************************************************
********
```