Case Study 2 of 3: SQL with Pine Valley Furniture Company Database Business Intelligence and Analytics

1. List customer ID, customer name, order ID, and order date, for all customers who have placed orders.

SELECT C.customer_ID,
C.customer_Name,
O.order_ID,
O.order_Date
FROM customer_t C, order_t O

WHERE C.customer_ID = O.customer_ID;

4	Customer_ID -	Customer_Name	•	Order_ID -	Order_Date -
	:	Contemporary Casuals		1001	10/21/2008
	:	Contemporary Casuals		1010	11/5/2008
		Value Furniture		1006	10/24/2008
		B Home Furnishings		1005	10/24/2008
	4	Eastern Furniture		1009	11/5/2008
	!	Impressions		1004	10/22/2008
		Calfornia Classics		1002	10/21/2008
	1:	L American Euro Lifestyles		1007	10/27/2008
	12	Battle Creek Furniture		1008	10/30/2008
	1	Mountain Scenes		1003	10/22/2008
*	(New				

2. List customer ID, customer name, order ID, order date, product ID and the quantity of each product ordered, for all customers who have placed orders.

```
SELECT
C.Customer_ID,C.Customer_Name,O.Order_ID,O.Order_Date,OL.Product_ID,OL.Ordered_Quantity
FROM
CUSTOMER_t C, ORDER_t O, ORDER_line_t OL
WHERE C.Customer_ID=O.Customer_ID
AND
O.Order ID=OL.Order ID;
```

Customer_ID •	Customer_Name	w	Order_ID ·	+ (Order_Date •	Product_ID .	Ordered Qu	antity *
10	ontemporary Casuals		100)1	10/21/2008	1		2
1 C	ontemporary Casuals		100)1	10/21/2008	2		2
1 C	ontemporary Casuals		100)1	10/21/2008	4		1
8 C	alfornia Classics		100)2	10/21/2008	3		5
15 N	lountain Scenes		100)3	10/22/2008	3		3
5 Ir	npressions		100)4	10/22/2008	6		2
5 Ir	npressions		100	14	10/22/2008	8		2
3 H	ome Furnishings		100)5	10/24/2008	4	į.	4
2 V	alue Furniture		100)6	10/24/2008	4		1
2 V	alue Furniture		100)6	10/24/2008	5		2
2 V	alue Furniture		100)6	10/24/2008	7		2
11 A	merican Euro Lifestyles		100)7	10/27/2008	1		3
11 A	merican Euro Lifestyles		100)7	10/27/2008	2		2
12 B	attle Creek Furniture		100	8(10/30/2008	3		3
12 B	attle Creek Furniture		100	8	10/30/2008	8		3
4 E	astern Furniture		100	9	11/5/2008	4		2
4 E	astern Furniture		100	9	11/5/2008	7		3
1 C	ontemporary Casuals		101	0	11/5/2008	8		10

3. List customer ID, customer name, order ID, order date, product name, quantity ordered, and price of each product, for all customers who have placed orders.

SELECT

 $C. Customer_ID, C. Customer_Name, O. Order_ID, O. Order_Date, P. Product_Description, Order_Quantity, Standard_Price$

FROM

Customer_t C, Order_t O, Order_line_t OL, Product_t P

WHERE

O.order_id=OL.order_id

AND

OL.product_ID=P.product_ID

AND

C.customer_id=O.customer_id;

Customer_ID + Customer_Name -	Order_ID +	Order_Date + Product_Description	· Ordered Quanti ·	Standard Price -
Contemporary Casuals	1001	10/21/2008 End Table	2	\$175.00
1 Contemporary Casuals	1001	10/21/2008 Coffee Table	2	\$200.00
1 Contemporary Casuals	1001	10/21/2008 Entertainment Center	1	\$650.00
8 Calfornia Classics	1002	10/21/2008 Computer Desk	5	\$375.00
15 Mountain Scenes	1003	10/22/2008 Computer Desk	3	\$375.00
5 Impressions	1004	10/22/2008 8-Drawer Desk	2	\$750.00
S Impressions	1004	10/22/2008 Computer Desk	2	\$250.00
3 Home Furnishings	1005	10/24/2008 Entertainment Center	4	\$650.00
2 Value Furniture	1006	10/24/2008 Entertainment Center	1	\$650.00
2 Value Furniture	1006	10/24/2008 Writers Desk	2	\$325.00
2 Value Furniture	1006	10/24/2008 Dining Table	2	\$800.00
11 American Euro Lifestyles	1007	10/27/2008 End Table	3	\$175.00
11 American Euro Lifestyles	1007	10/27/2008 Coffee Table	. 2	\$200.00
12 Battle Creek Furniture	1008	10/30/2008 Computer Desk	3	\$375.00
12 Battle Creek Furniture	1008	10/30/2008 Computer Desk	3	\$250.00
4 Eastern Furniture	1009	11/5/2008 Entertainment Center	2	\$650.00
4 Eastern Furniture	1009	11/5/2008 Dining Table	3	\$800.00
1 Contemporary Casuals	1010	11/5/2008 Computer Desk	10	\$250.00

4. List the customer name, city, and state of customers who ordered products 3 or 4.

```
SELECT
C.Customer_name, C.Customer_city,C.Customer_state

FROM
Customer_t C, Order_t O, Order_line_t OL,Product_t P
WHERE
O.order_id=OL.order_id
AND
OL.product_id=P.product_id
AND
C.customer_id=O.customer_id
AND
(P.Product_id=3)

OR
P.Product_id=4);
```

Customer_Name	Ŧ	City	Ŧ	Stat -	
Contemporary Casuals		Gainesville		FL	
Calfornia Classics		Santa Clara		CA	
Mountain Scenes		Ogden		UT	
Home Furnishings		Albany		NY	
Value Furniture		Plano		TX	
Battle Creek Furniture		Battle Creek		MI	
Eastern Furniture		Carteret		NJ	

5. List the customer name, order date, and product description for those customers who have purchased a Computer Desk.

SELECT

 $C. Customer_name, \, O. order_date, P. product_description$

FROM

Order_t O, order_line_t OL, product_t P, Customer_t C

WHERE

C.customer_ID=O.customer_ID

AND

O.order_ID=OL.order_ID

AND

OL.product_ID=P.product_ID

AND

P.product description = "computer desk";

	_ ' '	,		
_	Customer_Name -	order_date -	Product_Description	*
	Calfornia Classics	10/21/2008	Computer Desk	
	Mountain Scenes	10/22/2008	Computer Desk	
	Impressions	10/22/2008	Computer Desk	
	Battle Creek Furniture	10/30/2008	Computer Desk	
	Battle Creek Furniture	10/30/2008	Computer Desk	
	Contemporary Casuals	11/5/2008	Computer Desk	

6. Which products were ordered before 10/22/2008? List the product name, the quantity ordered, and the order date for all orders placed before 10/22/2008.
Products were ordered before 10/22/2008

SELECT

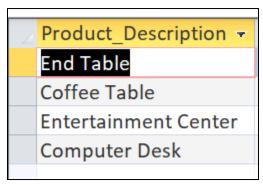
Product_description, ordered_Quantity, order_date FROM
Order t O, Order line t OL, Product t P

WHERE

P.product_id=OL.product_id AND OL.order_id=O.order_id

AND

Order date < #10/22/2008#;

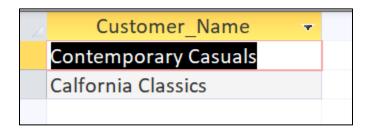


List the product name, the quantity ordered, and the order date for all orders placed before 10/22/2008

 Product_Description -	ordered_Quanti -	order_date -					
End Table	2	10/21/2008					
Coffee Table	2	10/21/2008					
Entertainment Center	1	10/21/2008					
Computer Desk	5	10/21/2008					

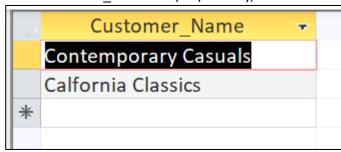
7. Write a query that will list the customer_name for orders that were placed before 10/22/2008.

SELECT
Customer_name
FROM
Customer_t C, Order_t O
WHERE
C.Customer_ID=O.Customer_ID
AND
ORDER date<#10/22/2008#;



8. Extra Credit (worth 1 pt) Now write a nested query that will list the customer_name for orders that were placed before 10/22/2008.

SELECT Customer_Name
FROM Customer_t
WHERE Customer_ID IN
(SELECT Customer_ID
FROM Order_t
WHERE order date <#10/22/2008#);



Thanks!