**Quiz of doom submission**

Ben Otte

**Data Dictionary:**

Note::: All table start with the prefix: otteb1\_

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TABLE NAME** | **ATRIBUTE NAME** | **CONTENTS** | **TYPE** | **FORMAT** | **RANGE** | **REQUIRED** | **PK OR FK** | **FK REFERENCED TABLE** |
| CUSTOMER | CustomerID  CustomerName  CustomerAddress  CustomerCity  CustomerState | Unique customer code  Customer First and last name  Customer Address  Customer City  Customer State | Char(3)  Char(25)  Char(25)  Char(20)  Char(2) | 123  Abcdef Abcd  123 abcdef  Abcdefghijk  AB | 0-999 | Y | PK |  |
| ORDER | OrderID  OrderDate  OrderTotal  CustomerID | Unique Order Identifier  Date Order was requested  Total amount of order  Unique Customer Code | Char(3)  DATE  NUMBER(9,2)  Char(3) | 123  dd-mm-yyyy  123456.78  123 | 0-999  000000.00-999999.99  0-999 | Y | PK  FK | CUSTOMER |
| ORDER\_ITEMS | OrderID  ItemID  ItemQty | Unique Order Identifier  Unique Item Identifier  Quantity of items per order | Char(3)  Char(3)  NUM(5) | 123  123  12345 | 0-999  0-999  1-99999 | Y  Y | PK,FK  PK,FK | ORDER  ITEMS |
| ITEMS | ItemID  ItemPrice | Unique item identifier  Price for a single item | Char(3)  Number(6,2) | 123  999.99 | 001-999  000.00-999.99 | Y | PK |  |

**DATA VALUES:**

SQL> select \* from otteb1\_customer;

CUS CUSTOMERNAME CUSTOMERADDRESS CUSTOMERCITY CU

--- ------------------------- ------------------------- -------------------- --

22 Toms Hardware 532 Blue Road Cincinnati OH

50 Anandtech 3642 Biltmore Ave Tallahassee FL

81 Sharons Thrift Shop 5122 Alvin Heights Austin TX

33 Widget Resellers, Inc. 743 Evergreen Terrace Springfield MO

SQL> select \* from otteb1\_order;

ORDERID ORDERDATE ORDERTOTAL CUS

---------- --------- ---------- ---

100 03-MAY-11 3810 22

104 09-JUN-11 5162 50

33 10-AUG-10 4185 81

107 15-JUN-11 2949 33

103 03-MAY-11 3810 22

39 08-MAY-11 1707 22

6 rows selected.

SQL> select \* from otteb1\_order\_item

ORD ITE ITEMQTY

--- --- ----------

100 555 100

100 666 25

100 777 33

104 555 33

104 666 89

104 777 33

104 888 10

33 666 33

33 777 45

107 555 90

107 666 13

ORD ITE ITEMQTY

--- --- ----------

107 777 26

39 555 50

39 666 29

103 555 100

103 666 25

103 777 33

17 rows selected.

SQL> select \* from otteb1\_items;

ITE ITEMPRICE

--- ----------

555 15

666 33

777 45

888 23

**SQL CODE AND OUTPUT:**

QUERIES:

1.

*I expected to see all the attributes in the customer table, and the orders that they made lies in the order ID attribute.*

*Should be 6 rows because there are 6 purchase order tables but a customer can have multiple purchases.*

**SELECT CustomerName, CustomerAddress, CustomerCity, CustomerState, OrderID**

**FROM otteb1\_customer, otteb1\_order**

**WHERE otteb1\_customer.customerId = otteb1\_order.customerid;**

::::::::::::::OUTPUT::

CUSTOMERNAME CUSTOMERADDRESS CUSTOMERCITY CU ORDERID

------------------------- ------------------------- -------------------- -- ------------------------------------------

Toms Hardware 532 Blue Road Cincinnati OH 100

Anandtech 3642 Biltmore Ave Tallahassee FL 104

Sharons Thrift Shop 5122 Alvin Heights Austin TX 33

CUSTOMERNAME CUSTOMERADDRESS CUSTOMERCITY CU

------------------------- ------------------------- -------------------- --

ORDERID

----------

Widget Resellers, Inc. 743 Evergreen Terrace Springfield MO

107

Toms Hardware 532 Blue Road Cincinnati OH

103

Toms Hardware 532 Blue Road Cincinnati OH

39

6 rows selected.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2**.**

*In my table, I was lucky to include OrderTotal, relatively easy query if it is correct!Only had to query OrderTotal and CustomerName.*

**SELECT OrderTotal, CustomerName**

**FROM otteb1\_order, otteb1\_customer**

**WHERE otteb1\_order.customerID = otteb1\_customer.customerId;**

ORDERTOTAL CUSTOMERNAME

---------- -------------------------

3810 Toms Hardware

5162 Anandtech

4185 Sharons Thrift Shop

2949 Widget Resellers, Inc.

3810 Toms Hardware

1707 Toms Hardware

6 rows selected.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3**.**

*I decided in the query to include related attributes for the query to make sense. The three I chose confirms my wanted result.*

**SELECT orderID, customerName, orderDate**

**FROM otteb1\_order, otteb1\_customer**

**WHERE otteb1\_order.customerId = otteb1\_customer.customerid AND otteb1\_order.orderDate > '31-MAY-2011';**

ORDERID CUSTOMERNAME ORDERDATE

---------- ------------------------- ---------

104 Anandtech 09-JUN-11

107 Widget Resellers, Inc. 15-JUN-11

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. A**.**

*For this query, I felt I had to split the question down to two queries: One to find Relevant OrderID’s, and the second to calculate the sum of the previous result.*

**SELECT itemqty, orderid**

**FROM otteb1\_order\_items**

**WHERE otteb1\_order\_items.itemid = '666';**

ITEMQTY ORD

---------- ---

25 100

89 104

33 33

13 107

29 39

25 103

6 rows selected.

#666 is the red widget's itemID

B.) **SELECT SUM(ITEMQTY)**

**FROM otteb1\_order\_items**

**WHERE otteb1\_order\_items.itemID='666';**

SUM(ITEMQTY)

------------

214

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*I expect my output a table of similar columns I would see in Purchase Order(3). So two tuples and 5 attribute columns including OrderId*

*and CustomerID, however I cannot narrow the result down to a single line because I have ItemQty in the wrong table, resulting in a Cartesian Product.*

5. **SELECT otteb1\_customer.CustomerID, CustomerName, otteb1\_order.OrderID, ItemQty, otteb1\_items.ItemId, ItemPrice, OrderTotal**

**FROM otteb1\_customer, otteb1\_order, otteb1\_items, otteb1\_order\_items**

**WHERE otteb1\_customer.CustomerID='81' AND otteb1\_order.orderID='33' AND OrderDate='10-AUGUST-2010';**

CUS CUSTOMERNAME ORDERID ITEMQTY ITE ITEMPRICE ORDERTOTAL

--- ------------------------- ---------- ---------- --- ---------- ----------

81 Sharons Thrift Shop 33 26 555 15 4185

81 Sharons Thrift Shop 33 50 555 15 4185

81 Sharons Thrift Shop 33 29 555 15 4185

81 Sharons Thrift Shop 33 100 555 15 4185

81 Sharons Thrift Shop 33 25 555 15 4185

81 Sharons Thrift Shop 33 33 555 15 4185

81 Sharons Thrift Shop 33 100 666 33 4185

81 Sharons Thrift Shop 33 25 666 33 4185

81 Sharons Thrift Shop 33 33 666 33 4185

81 Sharons Thrift Shop 33 33 666 33 4185

81 Sharons Thrift Shop 33 89 666 33 4185

....

(QUIZ OF DEWM)