## WoodCraftShoals SQL Complicated Joins

This project was from my Computer Information Systems class. This project was based on handcrafted wood tables. We had to input customers and their information, make shipping costs, tax, their order, and the quantity. We had to put it all together on an invoice with the subtotal, the tax, the shipping, and the total altogether.

karlaahildebrand@dbserver:~\$ sudo mysql -u root Welcome to the MySQL monitor. Commands end with ; or \g. Your MySQL connection id is 9 Server version: 8.0.32-0ubuntu0.20.04.2 (Ubuntu)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use ShoalsWoodcraft;

Reading table information for completion of table and column names You can turn off this feature to get a quicker startup with -A

```
Database changed
mysql> show tables;
+-----+
| Tables_in_ShoalsWoodcraft |
+-----+
| Customer |
| Orders |
```

```
I PO
| Product
| Tax
I invoice
6 rows in set (0.01 sec)
mysql> describe Customer;
+-----+
      | Type
             | Null | Key | Default | Extra
+-----+
| CustomerId | int
              | NO | PRI | NULL | auto_increment |
       |varchar(20)|YES| |NULL|
| Fname
| Lname
       |varchar(20)|YES| |NULL|
| Address | varchar(40) | YES | | NULL |
| Zipcode | int
             |YES | |NULL |
| State
      |varchar(2) | YES | NULL |
| City
      | varchar(20) | YES | NULL |
7 rows in set (0.00 sec)
mysql> select * from Customers;
ERROR 1146 (42S02): Table 'ShoalsWoodcraft.Customers' doesn't exist
mysql> select * from Customer;
  | Customerld | Fname | Lname
                      Address
                                | Zipcode | State | City
+-----+
    1 | Karla | Hildebrand | UNA box 5972 | 35632 | AL | Florence |
    2 | Kim | Kardashian | 123 Main Street | 91301 | CA | Calabassas |
    3 | Elon | Musk | 123 Bel Air Road | 91301 | CA | Bel Air
3 rows in set (0.01 sec)
mysql> describe Orders;
+-----+
              | Null | Key | Default | Extra
| Field
| NO | PRI | NULL | auto increment |
| Orderld | int
| Date
      | date
              |YES | |NULL |
| TaxID
      | int
             |YES | MUL | NULL | | |
| Shipping | decimal(10,2) | YES | | NULL |
| CustomerID | int | YES | MUL | NULL |
5 rows in set (0.00 sec)
```

```
mysql> select * from Orders;
+-----+
| Orderld | Date | TaxID | Shipping | CustomerID |
+----+
  1 | 2015-05-03 | 1 | 475.34 |
                        2 |
+-----+
1 row in set (0.01 sec)
mysql> describe PO;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
| ProductId | int | YES | MUL | NULL |
| Orderid | int | YES | MUL | NULL |
|Quant | int | YES | NULL |
+----+
3 rows in set (0.01 sec)
mysql> select * from PO;
+----+
| ProductId | Orderid | Quant |
+----+
  1| 1| 1|
+----+
1 row in set (0.00 sec)
mysql> describe Product;
+----+
| Field | Type
           | Null | Key | Default | Extra
+----+
|varchar(20) |YES | |NULL |
size
| price | decimal(10,2) | YES | | NULL |
+----+
3 rows in set (0.00 sec)
mysql> select * from Product;
+----+
| ProductId | size | price |
+----+
   1 | Large | 20000.00 |
+----+
1 row in set (0.01 sec)
```

```
mysql> describe Tax;
+-----+
           | Null | Key | Default | Extra
| Field | Type
+-----+
          | NO | PRI | NULL | auto increment |
| Taxid | int
| rate | decimal(10,2) | YES | NULL |
2 rows in set (0.01 sec)
mysql> select * from Tax;
+----+
| Taxid | rate |
+----+
  1 | 0.09 |
+----+
1 row in set (0.01 sec)
mysql> describe invoice;
+----+
             | Null | Key | Default | Extra |
      | Type
+----+
| CustomerId | int
               |NO | |0
       |varchar(20) |YES | |NULL
| Fname
| Lname
       |varchar(20) |YES | |NULL |
| Address | varchar(40) | YES | | NULL |
| City
      |varchar(20) |YES | |NULL |
| State
      |varchar(2) |YES | |NULL |
| Zipcode | int
              |YES | |NULL |
| Orderld | int
              |NO | |0
      | date
| Date
              |YES | |NULL | | |
| Shipping | decimal(10,2) | YES | | NULL |
| Tax_Rate | decimal(10,2) | YES | NULL |
| ProductId | int
              |NO | |0
size
      |varchar(20) |YES | |NULL |
      price
     | int
            | Quant
15 rows in set (0.00 sec)
mysql> select * from invoice;
```

CustomerId   Fname   Lname   Address   City   Shipping   Tax_Rate   ProductId   size   price   Quant	I ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
+++++++	
1 row in set (0.01 sec)	