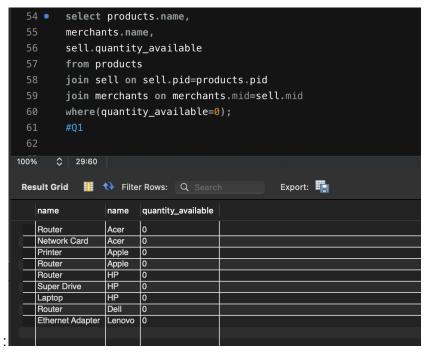
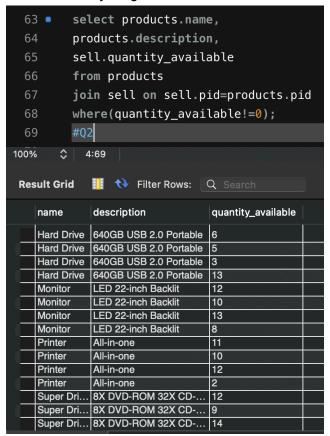
SQL Documentation

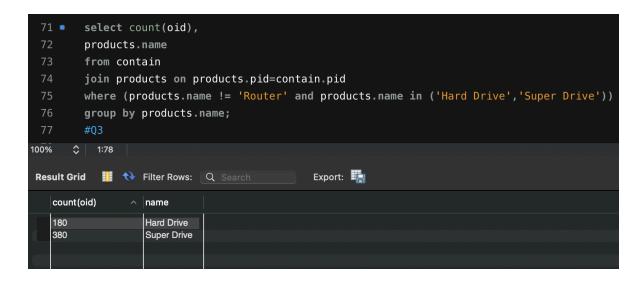


This query selects the key column names and joins together the tables (sell & merchants) using **ON** on the foreign keys. I used where to filter what rows have a 0 quantity.

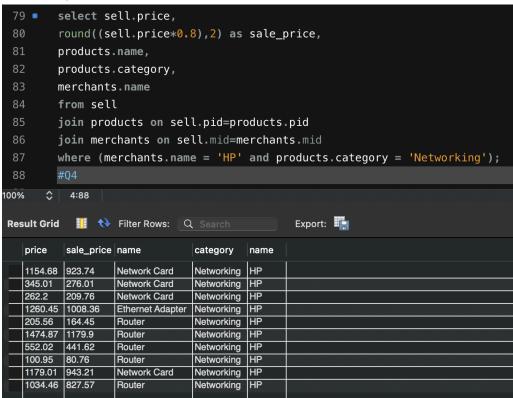
Q2: This query selects names and the description of the products after joining together the sell table. I joined sell in order to get the quantity available column. I used <u>where</u> to set the join condition to anything other than 0. There are 123 rows.



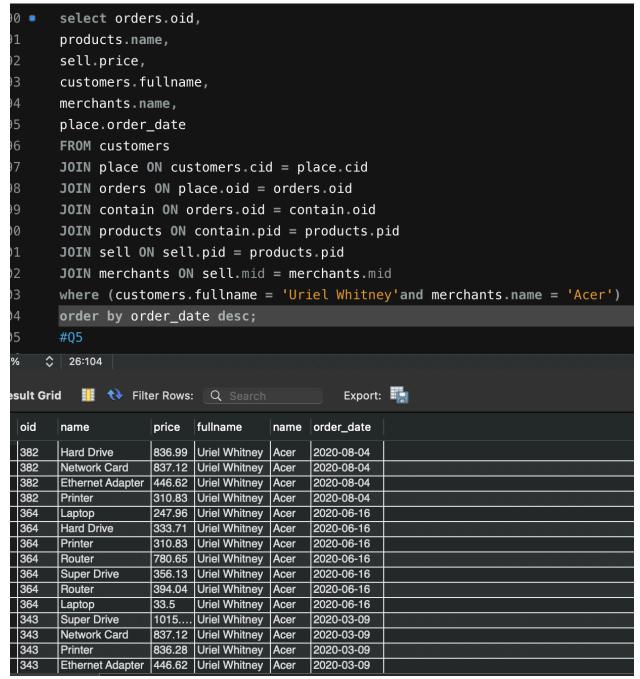
Q3: This query selects the order count (oid) of customers who bought SATA drives && did not buy a router. I joined the products table using **on** and did <u>products.pid=contain.pid.</u> My filter is in the <u>where</u> statement. I set the names to grab the SATA drives and not the Router product.



Q4: In this query I used the sell table joined by the products and merchants tables. The sell table has the price attribute, the merchants table has the seller name, and the products table has the actual products tied to the price. To get the new price I just multiplied the sell.price attribute by 0.8 and put it inside a round function also. I renamed the column sale_price.



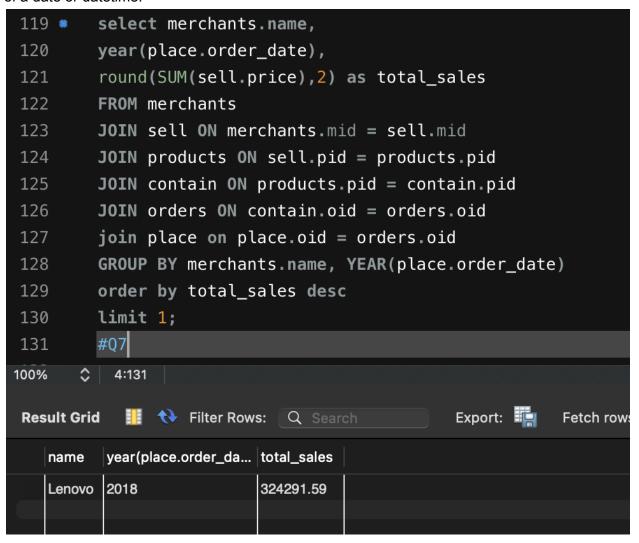
Q5: This query was quite simple. I selected the product names, prices, customer, names, and order_dates. I then joined all the necessary tables together and used to a where condition to filter on Uriel Whitney's names and the Acer company. This got me the history of her purchases with the Acer company.



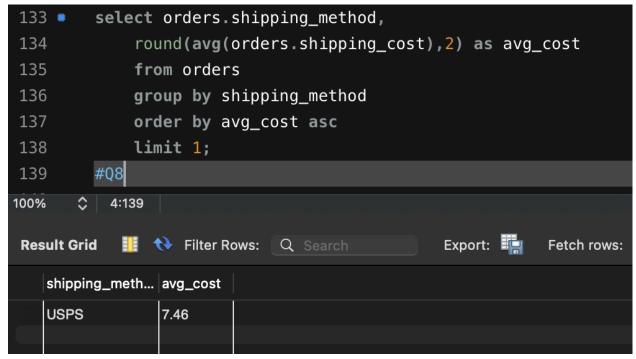
Q6: In this query, I connected many tables using joins and utilized the year function to isolate the year associated with the order_date. I took the sum of all the prices of their respective merchant. The table showed the total_sales for each year for each company.

```
107 •
         select merchants.name,
108
         year(place.order date),
109
         round(SUM(sell.price),2) as total_sales
110
         FROM merchants
         JOIN sell ON merchants.mid = sell.mid
111
112
         JOIN products ON sell.pid = products.pid
         JOIN contain ON products.pid = contain.pid
113
         JOIN orders ON contain.oid = orders.oid
114
115
         join place on place.oid = orders.oid
         GROUP BY merchants.name, YEAR(place.order_date);
116
117
         #06
118
100%
       49:116
                                                  Export:
Result Grid
            Filter Rows: Q Search
    name year(place.order_da... total_sales
    Acer
         2018
                           262059.29
    Acer
         2020
                           182311.15
    Acer
         2019
                           208815.8
    Acer
         2011
                           152986.3
         2016
                           60291.14
    Acer
    Acer
         2017
                           176722.77
   Apple 2018
                           300413.23
   Apple 2020
                           216461.06
   Apple 2019
                           231573.17
                           166822.91
   Apple 2011
   Apple 2016
                           64748.46
   Apple
         2017
                           179560.78
   HP
         2011
                           141030.15
    HP
         2018
                           222707.08
   HP
         2017
                           136092.43
```

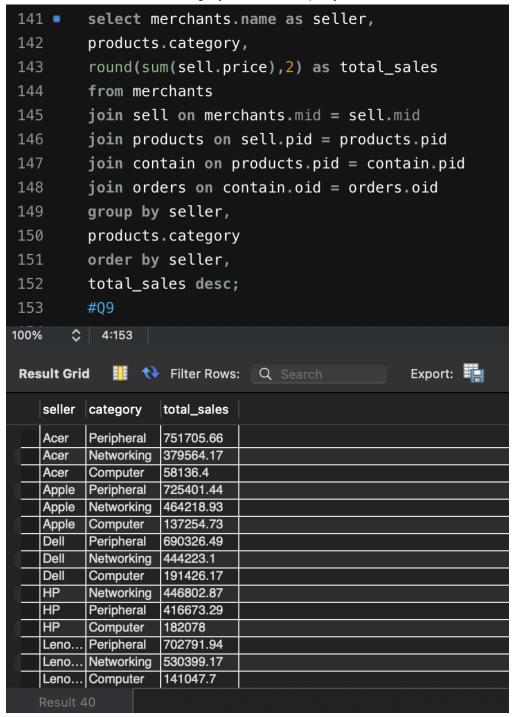
Q7:This query sums up all the order revenue as total_sales by year and orders by desc. I used limit to get the top 1 result. The YEAR function is used here because it isolates the year portion of a date or datetime.



Q8: This query averages up all the shippings costs and differentiates from the three different companies. After I got the averages, I ordered by least to greatest and then limited by 1 to get the cheapest cost



Q9: In this query I had to get the sum of the prices for all the orders and sort that into categories for each company. I pulled the company name, product category, and rounded sum of all the orders. I then joined all the necessary tables based on their PKs and FKs. I finally added the group by seller and ordered the row to show total_sales in descending order. The final result shows the sales for each category in each company.



Q10: In this query I started with a temp table (subquery) to get the total price spent by each customer. This subquery was named spenders. I then made another subquery to apply ranking to the spenders subquery. This row_number() function in conjunction with over partition allowed me to create variables that tags the highest or lowest spender. I then moved on to my main query where I pull from the ranked query that ranks/ tags the highest and lowest spenders. I used case to create if clauses for a column spend_status. My conditions set would change the name value in the spend_status column depending on whether it was the highest or lowest.

