Kristin Pflug
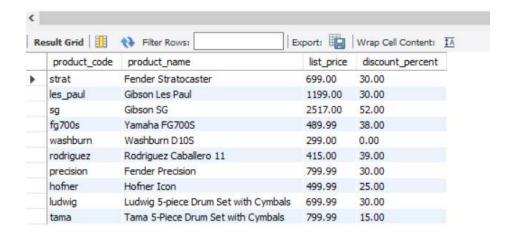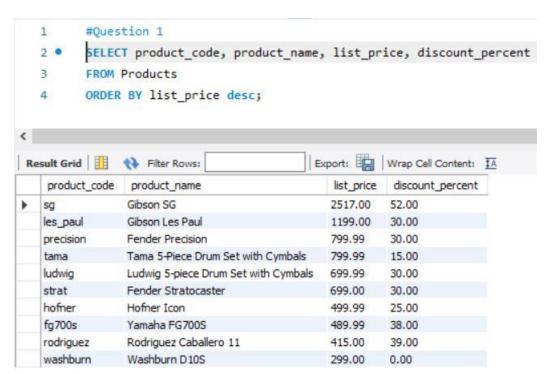
Lab 5: my_guitar_shop2

1.) Query without the ORDER BY clause:

```
1    #Question 1
2 •  SELECT product_code, product_name, list_price, discount_percent
3    FROM Products;
```

product_code	product_name	list_price	discount_percent
strat	Fender Stratocaster	699.00	30.00
les_paul	Gibson Les Paul	1199.00	30.00
sg	Gibson SG	2517.00	52.00
fg700s	Yamaha FG700S	489.99	38.00
washburn	Washburn D10S	299.00	0.00
rodriguez	Rodriguez Caballero 11	415.00	39.00
precision	Fender Precision	799.99	30.00
hofner	Hofner Icon	499.99	25.00
ludwig	Ludwig 5-piece Drum Set with Cymbals	699.99	30.00
tama	Tama 5-Piece Drum Set with Cymbals	799.99	15.00

Query with the ORDER BY clause:

```
1    #Question 1
2 •  SELECT product_code, product_name, list_price, discount_percent
3    FROM Products
4    ORDER BY list_price desc;
```
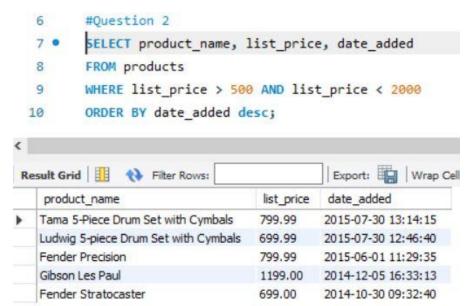
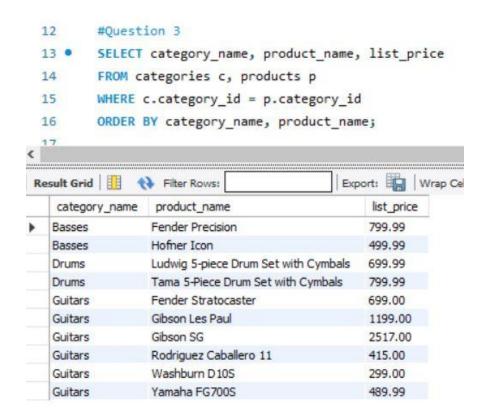| product_code	product_name	list_price	discount_percent
sg	Gibson SG	2517.00	52.00
les_paul	Gibson Les Paul	1199.00	30.00
precision	Fender Precision	799.99	30.00
tama	Tama 5-Piece Drum Set with Cymbals	799.99	15.00
ludwig	Ludwig 5-piece Drum Set with Cymbals	699.99	30.00
strat	Fender Stratocaster	699.00	30.00
hofner	Hofner Icon	499.99	25.00
fg700s	Yamaha FG700S	489.99	38.00
rodriguez	Rodriguez Caballero 11	415.00	39.00
washburn	Washburn D10S	299.00	0.00

2.) SQL Statement: SELECT product_name, list_price, date_added FROM products WHERE list_price > 500 AND list_price < 2000 ORDER BY date_added DESC;
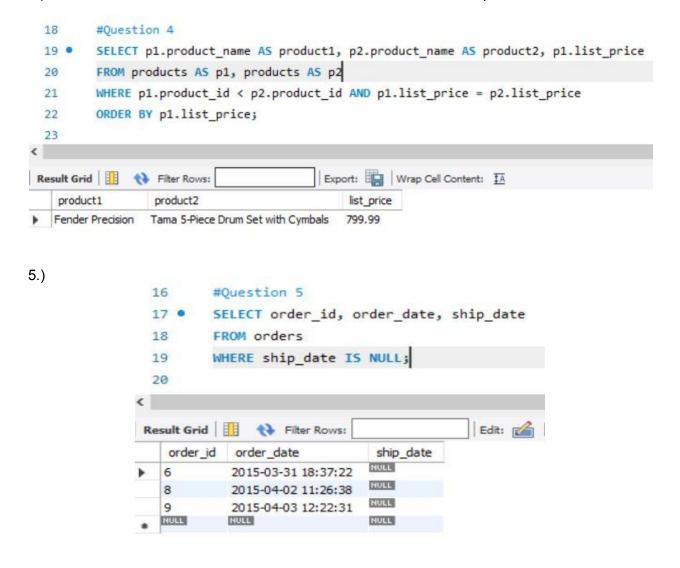The highest value in the list_price column is 1199.00, in the fourth row. The value of the date_added column for the first row is 2015-07-30 13:14:15.
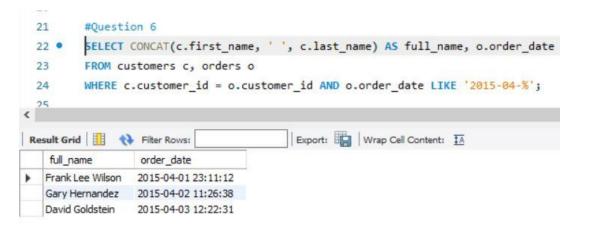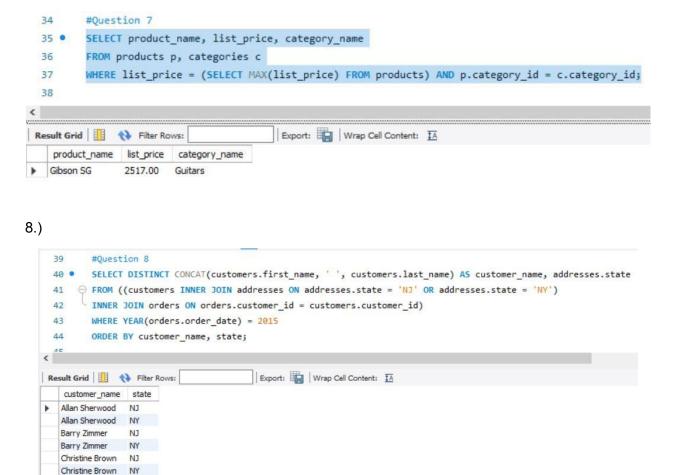
```
 6      #Question 2
 7  •   SELECT product_name, list_price, date_added
 8      FROM products
 9      WHERE list_price > 500 AND list_price < 2000
10      ORDER BY date_added desc;
```

Result Grid | Filter Rows: | Export: | Wrap Cell

product_name	list_price	date_added
Tama 5-Piece Drum Set with Cymbals	799.99	2015-07-30 13:14:15
Ludwig 5-piece Drum Set with Cymbals	699.99	2015-07-30 12:46:40
Fender Precision	799.99	2015-06-01 11:29:35
Gibson Les Paul	1199.00	2014-12-05 16:33:13
Fender Stratocaster	699.00	2014-10-30 09:32:40

3.)

```
12      #Question 3
13  •   SELECT category_name, product_name, list_price
14      FROM categories c, products p
15      WHERE c.category_id = p.category_id
16      ORDER BY category_name, product_name;
17
```

Result Grid | Filter Rows: | Export: | Wrap Cell

category_name	product_name	list_price
Basses	Fender Precision	799.99
Basses	Hofner Icon	499.99
Drums	Ludwig 5-piece Drum Set with Cymbals	699.99
Drums	Tama 5-Piece Drum Set with Cymbals	799.99
Guitars	Fender Stratocaster	699.00
Guitars	Gibson Les Paul	1199.00
Guitars	Gibson SG	2517.00
Guitars	Rodriguez Caballero 11	415.00
Guitars	Washburn D10S	299.00
Guitars	Yamaha FG700S	489.99

4.) Fender Precision and Tama 5-Piece Drum Set share the same list price, 799.99

```
18      #Question 4
19 •    SELECT p1.product_name AS product1, p2.product_name AS product2, p1.list_price
20      FROM products AS p1, products AS p2
21      WHERE p1.product_id < p2.product_id AND p1.list_price = p2.list_price
22      ORDER BY p1.list_price;
23
```

| Result Grid | Filter Rows: | Export: | Wrap Cell Content: ⫶A |

product1	product2	list_price
Fender Precision	Tama 5-Piece Drum Set with Cymbals	799.99

5.)

```
16      #Question 5
17 •    SELECT order_id, order_date, ship_date
18      FROM orders
19      WHERE ship_date IS NULL;
20
```

| Result Grid | Filter Rows: | Edit: |

order_id	order_date	ship_date
6	2015-03-31 18:37:22	NULL
8	2015-04-02 11:26:38	NULL
9	2015-04-03 12:22:31	NULL
NULL	NULL	NULL

6.) Frank Lee Wilson, Gary Hernandez, and David Goldstein ordered some products in April 2015

```
21      #Question 6
22 •    SELECT CONCAT(c.first_name, ' ', c.last_name) AS full_name, o.order_date
23      FROM customers c, orders o
24      WHERE c.customer_id = o.customer_id AND o.order_date LIKE '2015-04-%';
25
```

| Result Grid | Filter Rows: | Export: | Wrap Cell Content: ⫶A |

full_name	order_date
Frank Lee Wilson	2015-04-01 23:11:12
Gary Hernandez	2015-04-02 11:26:38
David Goldstein	2015-04-03 12:22:31

7.) The maximum list price for all products is 2517.00. The product name is Gibson SG and the category is Guitars.

```
34    #Question 7
35 •  SELECT product_name, list_price, category_name
36    FROM products p, categories c
37    WHERE list_price = (SELECT MAX(list_price) FROM products) AND p.category_id = c.category_id;
38
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

product_name	list_price	category_name
▶ Gibson SG	2517.00	Guitars

8.)

```
39    #Question 8
40 •  SELECT DISTINCT CONCAT(customers.first_name, ' ', customers.last_name) AS customer_name, addresses.state
41 ⊖  FROM ((customers INNER JOIN addresses ON addresses.state = 'NJ' OR addresses.state = 'NY')
42    INNER JOIN orders ON orders.customer_id = customers.customer_id)
43    WHERE YEAR(orders.order_date) = 2015
44    ORDER BY customer_name, state;
45
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

customer_name	state
▶ Allan Sherwood	NJ
Allan Sherwood	NY
Barry Zimmer	NJ
Barry Zimmer	NY
Christine Brown	NJ
Christine Brown	NY
David Goldstein	NJ
David Goldstein	NY
Erin Valentino	NJ
Erin Valentino	NY
Frank Lee Wilson	NJ
Frank Lee Wilson	NY
Gary Hernandez	NJ
Gary Hernandez	NY

9.) The total amount of tax paid by NJ residents is 122.24.

```
46    #Question 9
47 •  SELECT SUM(tax_amount) AS NJ_tax_total
48    FROM addresses, orders
49    WHERE addresses.address_id = orders.billing_address_id AND addresses.state = 'NJ';
50
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

NJ_tax_total
▶ 122.24

10.)

```
51    #Question 10
52 •  SELECT addresses.state, SUM(tax_amount) AS state_tax_total FROM addresses, orders
53    WHERE addresses.address_id = orders.billing_address_id AND addresses.state = 'NJ'
54    UNION
55    SELECT addresses.state, SUM(tax_amount) AS state_tax_total FROM addresses, orders
56    WHERE addresses.address_id = orders.billing_address_id AND addresses.state = 'NY'
57    UNION
58    SELECT addresses.state, SUM(tax_amount) AS state_tax_total FROM addresses, orders
59    WHERE addresses.address_id = orders.billing_address_id AND addresses.state = 'OR'
60    UNION
61    SELECT addresses.state, SUM(tax_amount) AS state_tax_total FROM addresses, orders
62    WHERE addresses.address_id = orders.billing_address_id AND addresses.state = 'NE'
63    UNION
64    SELECT addresses.state, SUM(tax_amount) AS state_tax_total FROM addresses, orders
65    WHERE addresses.address_id = orders.billing_address_id AND addresses.state = 'CA'
66    UNION
67    SELECT addresses.state, SUM(tax_amount) AS state_tax_total FROM addresses, orders
68    WHERE addresses.address_id = orders.billing_address_id AND addresses.state = 'CO';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

state	state_tax_total
NJ	122.24
NY	0.00
OR	0.00
NE	0.00
CA	0.00
CO	0.00