CP4265 Assignment 2
Chapter 3: How to retrieve data from a single table

Question 1:

USE my_guitar_shop;
SELECT product_code, product_name, list_price, discount_percent
FROM products
ORDER BY list_price DESC;

product_code	product_name	list_price	discount_percent
sg	Gibson SG	2517	52
les_paul	Gibson Les Paul	1199	30
precision	Fender Precision	799.99	30
tama	Tama 5-Piece Drum Set with Cymbals	799.99	15
ludwig	Ludwig 5-piece Drum Set with Cymbals	699.99	30
strat	Fender Stratocaster	699	30
hofner	Hofner Icon	499.99	25
fg700s	Yamaha FG700S	489.99	38
rodriguez	Rodriguez Caballero 11	415	39
washburn	Washburn D10S	299	0

Question 2:

USE my_guitar_shop;
SELECT concat(last_name, ',',' ', first_name) AS full_name
FROM customers
WHERE last_name REGEXP '^[M-Z]'
ORDER BY last_name;

full_name
Sherwood, Allan
Valentino, Erin
Wilson, Frank Lee
Zimmer, Barry

Question 3:

USE my_guitar_shop;
SELECT product_name, list_price, date_added
FROM products
WHERE list_price > 500 and list_price < 2000
ORDER BY date_added DESC;

product_name	list_price	date_added
Tama 5-Piece Drum Set with Cymbals	799.99	2018-07-30 13:14
Ludwig 5-piece Drum Set with Cymbals	699.99	2018-07-30 12:46
Fender Precision	799.99	2018-06-01 11:29
Gibson Les Paul	1199	2017-12-05 16:33
Fender Stratocaster	699	2017-10-30 9:32

Question 4:

USE my_guitar_shop;
SELECT product_name, list_price, discount_percent,
ROUND(list_price * discount_percent/100, 2) AS discount_amount,
ROUND(list_price - (SELECT discount_amount),2) AS discount_price
FROM products
ORDER BY discount_price DESC
LIMIT 5;

product_name	list_price	discount_percent	discount_amount	discount_price
Gibson SG	2517	52	1308.84	1208.16
Gibson Les Paul	1199	30	359.7	839.3
Tama 5-Piece Drum Set with Cymbals	799.99	15	120	679.99
Fender Precision	799.99	30	240	559.99
Ludwig 5-piece Drum Set with Cymbals	699.99	30	210	489.99

Question 5:

USE my_guitar_shop;
SELECT item_id, item_price, discount_amount,
quantity, item_price * quantity AS price_total,
discount_amount * quantity AS discount_total,
(item_price - discount_amount) * quantity AS item_total
FROM order_items
HAVING item_total > 500
ORDER BY item_total DESC;

item_id	item_price	discount_amount	quantity	price_total	discount_total	item_total
5	1199	359.7	2	2398	719.4	1678.6
3	2517	1308.84	1	2517	1308.84	1208.16
1	1199	359.7	1	1199	359.7	839.3
11	799.99	120	1	799.99	120	679.99

9	799.99	240	1	799.99	240	559.99

Question 6:

USE my_guitar_shop;
SELECT order_id, order_date, ship_date
FROM orders
WHERE ship_date IS NULL;

order_id	order_date	ship_date
6	2018-03-31 18:37	NULL
8	2018-04-02 11:26	NULL
9	2018-04-03 12:22	NULL
NULL	NULL	NULL

Question 7:

SELECT NOW() AS today_unformatted,
DATE_FORMAT(NOW(),'%d-%b-%Y') AS today_formatted;

today_unformatted	today_formatted
2022-02-09 10:58	09-Feb-22

Question 8:

SELECT 100 AS price, 0.07 AS tax_rate,
(SELECT price * tax_rate) AS tax_amount,
(SELECT price + tax_amount) AS total;

price	tax_rate	tax_amount	total
100	0.07	7	107