Питання 1

Правильно

Балів 1,00 з 1,00

Your supervisor came to you with a request. She thinks that some of sales managers accidentally double-entered a line item on an order, with a different **product_id**, but the same **quantity**. She know that the **quantity** was *60* or more. Show all the **order_id** that match this request, order by **order_id**.

Use the model:

Note. Use the subquery-derived table.

For example:

Тест	Result

`-- Testing with original db`	`order_id`
	`--------`
	`10263`
	`10658`
	`10990`
	`11030`

Відповідь: (penalty regime: 0 %)

```
SELECT order_id
FROM (
    SELECT order_id, quantity
    FROM order_details
    WHERE quantity >= 60
    GROUP BY order_id, quantity
    HAVING COUNT(DISTINCT product_id) > 1
) AS subquery
ORDER BY order_id;

```

	Тест	Expected	Got	

✓	`-- Testing with original db`	`order_id`
		`--------`
		`10263`
		`10658`
		`10990`
		`11030`
			`order_id`
			`--------`
			`10263`
			`10658`
			`10990`
			`11030`
				✓

✓	`-- Testing with extra row`	`order_id`
		`--------`
		`10658`
		`10990`
		`11030`
			`order_id`
			`--------`
			`10658`
			`10990`
			`11030`
				✓

Пройшов усі тести! ✓

Правильно

Бали за цю відповідь: 1,00/1,00.

Питання 2

Правильно

Балів 1,00 з 1,00

We know that Andrew Fuller is the Vice President of Northwind Company. Create the report that shows the list of those employees (**last_name** and **first_name**) who were hired earlier than Fuller.

Use the table:

Note. Use the subquery.

For example:

Тест	Result

`-- Testing with original db`	`last_name  first_name`
	`---------  ----------`
	`Davolio  Nancy`
	`Leverling  Janet`
	`Ann  Miller`

Відповідь: (penalty regime: 0 %)

```
SELECT last_name, first_name
FROM employees
WHERE hire_date < (
    SELECT hire_date
    FROM employees
    WHERE first_name = 'Andrew'
    AND last_name = 'Fuller'
);

```

	Тест	Expected	Got	

✓	`-- Testing with original db`	`last_name  first_name`
		`---------  ----------`
		`Davolio  Nancy`
		`Leverling  Janet`
		`Ann  Miller`
			`last_name  first_name`
			`---------  ----------`
			`Davolio  Nancy`
			`Leverling  Janet`
			`Ann  Miller`
				✓

✓	`-- Testing with extra row`	`last_name  first_name`
		`---------  ----------`
		`Leverling  Janet`
		`Ann  Miller`
			`last_name  first_name`
			`---------  ----------`
			`Leverling  Janet`
			`Ann  Miller`
				✓

Пройшов усі тести! ✓

Правильно

Бали за цю відповідь: 1,00/1,00.

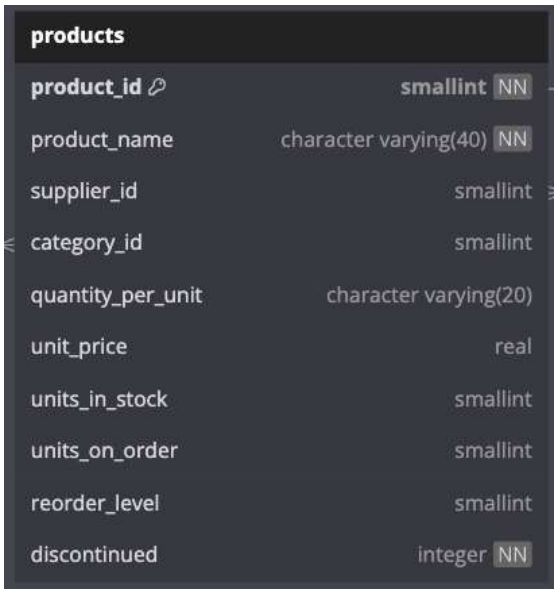
Питання 3

Правильно

Балів 1,00 з 1,00

Write the query that should create the list of products and their **unit_price** for **products** with a price greater than the *average* products' **unit_price**.
The result set should be ordered by **unit_price** ascending.

Use the table:



Note. Use the subquery to get the *average* **unit_price** from the **products** table.

For example:

Тест	Result
`-- Testing with original db`	`product_name` `unit_price` `Perth Pasties` 32.8 `Wimmers gute Semmelknudel` 33.25 `Camembert Pierrot` 34 `Mozzarella di Giovanni` 34.8 `Gudbrandsdalsost` 36 `Queso Manchego La Pastora` 38 `Gnocchi di nonna Alice` 38 `Alice Mutton` 39 `Northwoods Cranberry Sauce` 40 `Schoggi Schokolade` 43.9 `Vegie-spread` 43.9 `Tomatoes - Diced, Canned` 45.21 `Russle Sauerkraut` 45.6 `Beans - Black Bean, Dry` 45.82 `Ipoh Coffee` 46 `Tarte au sucre` 49.3 `Manjimup Dried Apples` 53 `Raclette Courdavault` 55 `Carnarvon Tigers` 62.5 `Beef - Tenderloin Tails` 62.76 `Wine - Chardonnay Mondavi` 68.16 `Wine - Merlot Vina Carmen` 69.59 `Onions - White` 75.86 `Ecolab - Ster Bac` 77.41 `Sir Rodney's Marmalade` 81 `Sponge Cake Mix - Chocolate` 95.53 `Mishi Kobe Niku` 97 `Thuringer Rostbratwurst` 123.79 `Cute de Blaye` 263.5

Відповідь: (penalty regime: 0 %)

```sql
SELECT product_name, unit_price
FROM products
WHERE unit_price > (
    SELECT AVG(unit_price)
    FROM products
)
ORDER BY unit_price ASC;

```

	Тест	Expected		Got		
✓	-- Testing with original db	product_name	unit_price	product_name	unit_price	✓
		---	---	---	---	
		Perth Pasties	32.8	Perth Pasties	32.8	
		Wimmers gute Semmelknudel	33.25	Wimmers gute Semmelknudel	33.25	
		Camembert Pierrot	34	Camembert Pierrot	34	
		Mozzarella di Giovanni	34.8	Mozzarella di Giovanni	34.8	
		Gudbrandsdalsost	36	Gudbrandsdalsost	36	
		Queso Manchego La Pastora	38	Queso Manchego La Pastora	38	
		Gnocchi di nonna Alice	38	Gnocchi di nonna Alice	38	
		Alice Mutton	39	Alice Mutton	39	
		Northwoods Cranberry Sauce	40	Northwoods Cranberry Sauce	40	
		Schoggi Schokolade	43.9	Schoggi Schokolade	43.9	
		Vegie-spread	43.9	Vegie-spread	43.9	
		Tomatoes - Diced, Canned	45.21	Tomatoes - Diced, Canned	45.21	
		Russle Sauerkraut	45.6	Russle Sauerkraut	45.6	
		Beans - Black Bean, Dry	45.82	Beans - Black Bean, Dry	45.82	
		Ipoh Coffee	46	Ipoh Coffee	46	
		Tarte au sucre	49.3	Tarte au sucre	49.3	
		Manjimup Dried Apples	53	Manjimup Dried Apples	53	
		Raclette Courdavault	55	Raclette Courdavault	55	
		Carnarvon Tigers	62.5	Carnarvon Tigers	62.5	
		Beef - Tenderloin Tails	62.76	Beef - Tenderloin Tails	62.76	
		Wine - Chardonnay Mondavi	68.16	Wine - Chardonnay Mondavi	68.16	
		Wine - Merlot Vina Carmen	69.59	Wine - Merlot Vina Carmen	69.59	
		Onions - White	75.86	Onions - White	75.86	
		Ecolab - Ster Bac	77.41	Ecolab - Ster Bac	77.41	
		Sir Rodney's Marmalade	81	Sir Rodney's Marmalade	81	
		Sponge Cake Mix - Chocolate	95.53	Sponge Cake Mix - Chocolate	95.53	
		Mishi Kobe Niku	97	Mishi Kobe Niku	97	
		Thuringer Rostbratwurst	123.79	Thuringer Rostbratwurst	123.79	
		Cute de Blaye	263.5	Cute de Blaye	263.5	

	Тест	Expected	Got	
✓	`-- Testing with extra row`	product_name unit_price Flotemysost 21.5 Putu chinois 24 Gravad lax 26 Mushroom - Chanterelle, Dry 28.23 Sirop d'urable 28.5 Mascarpone Fabioli 32 Perth Pasties 32.8 Wimmers gute Semmelknudel 33.25 Camembert Pierrot 34 Mozzarella di Giovanni 34.8 Gudbrandsdalsost 36 Gnocchi di nonna Alice 38 Vegie-spread 43.9 Tomatoes - Diced, Canned 45.21 Beans - Black Bean, Dry 45.82 Ipoh Coffee 46 Tarte au sucre 49.3 Manjimup Dried Apples 53 Raclette Courdavault 55 Beef - Tenderloin Tails 62.76 Wine - Chardonnay Mondavi 68.16 Wine - Merlot Vina Carmen 69.59 Onions - White 75.86 Ecolab - Ster Bac 77.41 Sponge Cake Mix - Chocolate 95.53 Cute de Blaye 263.5	product_name unit_price Flotemysost 21.5 Putu chinois 24 Gravad lax 26 Mushroom - Chanterelle, Dry 28.23 Sirop d'urable 28.5 Mascarpone Fabioli 32 Perth Pasties 32.8 Wimmers gute Semmelknudel 33.25 Camembert Pierrot 34 Mozzarella di Giovanni 34.8 Gudbrandsdalsost 36 Gnocchi di nonna Alice 38 Vegie-spread 43.9 Tomatoes - Diced, Canned 45.21 Beans - Black Bean, Dry 45.82 Ipoh Coffee 46 Tarte au sucre 49.3 Manjimup Dried Apples 53 Raclette Courdavault 55 Beef - Tenderloin Tails 62.76 Wine - Chardonnay Mondavi 68.16 Wine - Merlot Vina Carmen 69.59 Onions - White 75.86 Ecolab - Ster Bac 77.41 Sponge Cake Mix - Chocolate 95.53 Cute de Blaye 263.5	✓

Пройшов усі тести! ✓

Правильно

Бали за цю відповідь: 1,00/1,00.

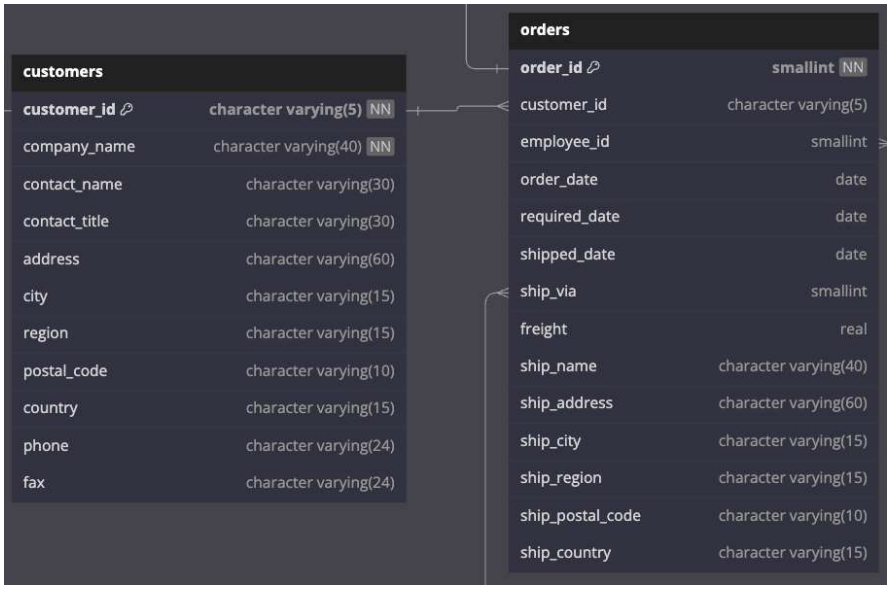
Питання 4

Правильно

Балів 1,00 з 1,00

Create the report that should show the **company_name** from Germany that placed orders in 1996 (*for test use 2016, see note*).

Use the model:



*Note. The test is running using SQLite Database that has the same structure, but slightly different information! You need to change the year from **1996** to **2016** when you copy your code from **supabase**. Also, a reminder that you need to use function **strftime('%Y', order_date)** to extract year from date instead of PostgreSQL **EXTRACT** when you copy your code from **supabase**.*
Use subquery to create this report.

For example:

Тест	Result

`-- Testing with original db`	`company_name`
	`------------------------`
	`Alfreds Futterkiste`
	`Blauer See Delikatessen`
	`Drachenblut Delikatessen`
	`Frankenversand`
	`Kuniglich Essen`
	`Lehmanns Marktstand`
	`Morgenstern Gesundkost`
	`Ottilies Kuseladen`
	`QUICK-Stop`
	`Toms Spezialituten`
	`Die Wandernde Kuh`

Відповідь: (penalty regime: 0 %)

```
SELECT DISTINCT c.company_name
FROM customers c
WHERE c.country = 'Germany'
AND c.customer_id IN (
    SELECT o.customer_id
    FROM orders o
    WHERE strftime('%Y', o.order_date) = '2016'
);

```

	Тест	Expected	Got	

✓	`-- Testing with original db`	`company_name`
		`------------------------`
		`Alfreds Futterkiste`
		`Blauer See Delikatessen`
		`Drachenblut Delikatessen`
		`Frankenversand`
		`Kuniglich Essen`
		`Lehmanns Marktstand`
		`Morgenstern Gesundkost`
		`Ottilies Kuseladen`
		`QUICK-Stop`
		`Toms Spezialituten`
		`Die Wandernde Kuh`
			`company_name`
			`------------------------`
			`Alfreds Futterkiste`
			`Blauer See Delikatessen`
			`Drachenblut Delikatessen`
			`Frankenversand`
			`Kuniglich Essen`
			`Lehmanns Marktstand`
			`Morgenstern Gesundkost`
			`Ottilies Kuseladen`
			`QUICK-Stop`
			`Toms Spezialituten`
			`Die Wandernde Kuh`
				✓

✓	`-- Testing with extra row`	`company_name`
		`------------------------`
		`Blauer See Delikatessen`
		`Drachenblut Delikatessen`
		`Frankenversand`
		`Kuniglich Essen`
		`Lehmanns Marktstand`
		`Morgenstern Gesundkost`
		`Ottilies Kuseladen`
		`QUICK-Stop`
		`Toms Spezialituten`
		`Die Wandernde Kuh`
			`company_name`
			`------------------------`
			`Blauer See Delikatessen`
			`Drachenblut Delikatessen`
			`Frankenversand`
			`Kuniglich Essen`
			`Lehmanns Marktstand`
			`Morgenstern Gesundkost`
			`Ottilies Kuseladen`
			`QUICK-Stop`
			`Toms Spezialituten`
			`Die Wandernde Kuh`
				✓

Пройшов усі тести! ✓

Правильно

Бали за цю відповідь: 1,00/1,00.

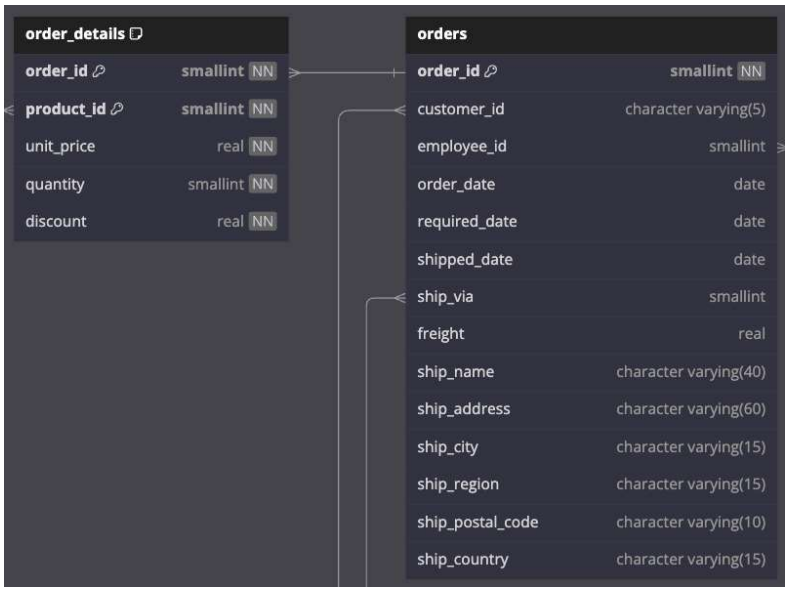
Питання 5

Правильно

Балів 1,00 з 1,00

Create the query that should show the date when the orders were shipped (**shipped_date**), the number of orders (**number_of_orders**) and total sum (including **discount**) of the orders (**total**) shipped at this date. The report includes only the 1st quarter of 1997 (*for test use 2016, see note*) with the number of orders greater than 3.
The result should be sorted by **shipped_date**

Use the model:



Note. A subtotal is calculated by a sub-query for each order. The sub-query forms a table and then joined with the **orders** table.
Note. *The test is running using SQLite Database that has the same structure, but slightly different information! You need to change the year from* **1997** *to* **2016** *when you copy your code from* **supabase**.
Also, a reminder that you need to use function ***strftime('%Y', order_date)*** *to extract year from date instead of PostgreSQL* ***EXTRACT*** *when you copy your code from* ***supabase***.
In ***supabase*** *you might need to cast the* ***<value>*** *of the ROUND function to* ***numeric*** *type which is not needed in the test.*
Use ROUND(<*value*>, *2*) function for calculated sum of each order in subquery.

For example:

Тест	Result

`-- Testing with original db`	`shipped_date  number_of_orders  total`
	`------------  ----------------  --------`
	`2016-01-05  5  4328.64`
	`2016-01-14  5  6535.57`
	`2016-01-21  4  7749.3`
	`2016-01-23  6  9470.21`
	`2016-01-30  6  8662.72`
	`2016-02-04  4  12125.34`
	`2016-02-09  4  4307.26`
	`2016-02-12  5  20551.0`
	`2016-02-18  4  3719.1`
	`2016-02-20  4  9183.85`
	`2016-02-23  4  20285.0`
	`2016-03-04  5  3310.25`
	`2016-03-13  5  3531.58`
	`2016-03-18  7  10474.05`
	`2016-03-19  4  5279.95`
	`2016-03-20  4  6422.69`
	`2016-03-23  4  4185.75`
	`2016-03-27  4  3552.75`

Відповідь: (penalty regime: 0 %)

```
SELECT
    o.shipped_date,
    COUNT(o.order_id) AS number_of_orders,
```

```
    ROUND(SUM(od.total), 2) AS total
FROM orders o
JOIN (
    SELECT order_id, ROUND(SUM(unit_price * quantity * (1 - discount)), 2) AS total
    FROM order_details
    GROUP BY order_id
) AS od ON o.order_id = od.order_id
WHERE strftime('%Y', o.shipped_date) = '2016'
AND strftime('%m', o.shipped_date) IN ('01', '02', '03')
GROUP BY o.shipped_date
HAVING COUNT(o.order_id) > 3
ORDER BY o.shipped_date;

```

	Тест	Expected	Got	
✓	-- Testing with original db	shipped_date number_of_orders total ---------- ---------- -------- 2016-01-05 5 4328.64 2016-01-14 5 6535.57 2016-01-21 4 7749.3 2016-01-23 6 9470.21 2016-01-30 6 8662.72 2016-02-04 4 12125.34 2016-02-09 4 4307.26 2016-02-12 5 20551.0 2016-02-18 4 3719.1 2016-02-20 4 9183.85 2016-02-23 4 20285.0 2016-03-04 5 3310.25 2016-03-13 5 3531.58 2016-03-18 7 10474.05 2016-03-19 4 5279.95 2016-03-20 4 6422.69 2016-03-23 4 4185.75 2016-03-27 4 3552.75	shipped_date number_of_orders total ---------- ---------- -------- 2016-01-05 5 4328.64 2016-01-14 5 6535.57 2016-01-21 4 7749.3 2016-01-23 6 9470.21 2016-01-30 6 8662.72 2016-02-04 4 12125.34 2016-02-09 4 4307.26 2016-02-12 5 20551.0 2016-02-18 4 3719.1 2016-02-20 4 9183.85 2016-02-23 4 20285.0 2016-03-04 5 3310.25 2016-03-13 5 3531.58 2016-03-18 7 10474.05 2016-03-19 4 5279.95 2016-03-20 4 6422.69 2016-03-23 4 4185.75 2016-03-27 4 3552.75	✓
✓	-- Testing with extra row	shipped_date number_of_orders total ---------- ---------- -------- 2016-02-04 4 12125.34 2016-02-09 4 4307.26 2016-02-12 5 20551.0 2016-02-18 4 3719.1 2016-02-20 4 9183.85 2016-02-23 4 20285.0 2016-03-04 5 3310.25 2016-03-13 5 3531.58 2016-03-18 7 10474.05 2016-03-19 4 5279.95 2016-03-20 4 6422.69 2016-03-23 4 4185.75 2016-03-27 4 3552.75	shipped_date number_of_orders total ---------- ---------- -------- 2016-02-04 4 12125.34 2016-02-09 4 4307.26 2016-02-12 5 20551.0 2016-02-18 4 3719.1 2016-02-20 4 9183.85 2016-02-23 4 20285.0 2016-03-04 5 3310.25 2016-03-13 5 3531.58 2016-03-18 7 10474.05 2016-03-19 4 5279.95 2016-03-20 4 6422.69 2016-03-23 4 4185.75 2016-03-27 4 3552.75	✓

Пройшов усі тести! ✓

Правильно

Бали за цю відповідь: 1,00/1,00.

Питання 6

Правильно

Балів 1,00 з 1,00

For the category starts with 'Dairy' get the list of products sold and the total sales amount including discount (alias **product_sales**) during the 1st quarter of 1997 (*for test use 2016, see note*).

Use the model:

Note. Use the subquery to get sales for each product on each order. Join the table from the subquery with an outer query on **product_id**.
*Note. The test is running using SQLite Database that has the same structure, but slightly different information! You need to change the year from **1996** to **2016** when you copy your code from **supabase**.*
Use ROUND(..., **1**) function for a calculated total for each product in the subquery.

For example:

Тест	Result

`-- Testing with original db`	`category_name product_name product_sales`
	`Dairy products Camembert Pierrot 11845.6`
	`Dairy products Flotemysost 3918.4`
	`Dairy products Geitost 303.5`
	`Dairy products Gorgonzola Telino 2762.6`
	`Dairy products Gudbrandsdalsost 2394.0`
	`Dairy products Mascarpone Fabioli 832.0`
	`Dairy products Mozzarella di Giovanni 4541.4`
	`Dairy products Queso Cabrales 3018.8`
	`Dairy products Queso Manchego La Pastora 1900.0`
	`Dairy products Raclette Courdavault 13158.8`

Відповідь: (penalty regime: 0 %)

```
select a.category_name, b.product_name, round(sum(c.extended_price), 1) as product_sales
from categories AS a
 join products AS b on a.category_id = b.category_id
 join
(
    select  y.order_id,
        y.product_id,
        x.product_name,
        round(y.unit_price * y.quantity * (1 - y.discount), 1) as extended_price
    from products x
    inner join order_details y on x.product_id = y.product_id
    order by y.order_id
) AS c on c.product_id = b.product_id
 join orders AS d on d.order_id = c.order_id
where a.category_name like 'Dairy%'
and d.order_date between '2016-01-01' and '2016-03-31'
group by a.category_id, a.category_name, b.product_name
order by b.product_name;
```

	Тест	Expected	Got	
✓	-- Testing with original db	category_name product_name product_sales -------------- ------------------------ ---------- Dairy products Camembert Pierrot 11845.6 Dairy products Flotemysost 3918.4 Dairy products Geitost 303.5 Dairy products Gorgonzola Telino 2762.6 Dairy products Gudbrandsdalsost 2394.0 Dairy products Mascarpone Fabioli 832.0 Dairy products Mozzarella di Giovanni 4541.4 Dairy products Queso Cabrales 3018.8 Dairy products Queso Manchego La Pastora 1900.0 Dairy products Raclette Courdavault 13158.8	category_name product_name product_sales -------------- ------------------------ ---------- Dairy products Camembert Pierrot 11845.6 Dairy products Flotemysost 3918.4 Dairy products Geitost 303.5 Dairy products Gorgonzola Telino 2762.6 Dairy products Gudbrandsdalsost 2394.0 Dairy products Mascarpone Fabioli 832.0 Dairy products Mozzarella di Giovanni 4541.4 Dairy products Queso Cabrales 3018.8 Dairy products Queso Manchego La Pastora 1900.0 Dairy products Raclette Courdavault 13158.8	✓
✓	-- Testing with extra row	category_name product_name product_sales -------------- ------------------------ ---------- Dairy products Camembert Pierrot 11845.6 Dairy products Flotemysost 3918.4 Dairy products Geitost 42.0 Dairy products Gorgonzola Telino 318.8 Dairy products Gudbrandsdalsost 2394.0 Dairy products Mascarpone Fabioli 192.0 Dairy products Mozzarella di Giovanni 4541.4 Dairy products Queso Cabrales 3018.8 Dairy products Queso Manchego La Pastora 1900.0 Dairy products Raclette Courdavault 13158.8	category_name product_name product_sales -------------- ------------------------ ---------- Dairy products Camembert Pierrot 11845.6 Dairy products Flotemysost 3918.4 Dairy products Geitost 42.0 Dairy products Gorgonzola Telino 318.8 Dairy products Gudbrandsdalsost 2394.0 Dairy products Mascarpone Fabioli 192.0 Dairy products Mozzarella di Giovanni 4541.4 Dairy products Queso Cabrales 3018.8 Dairy products Queso Manchego La Pastora 1900.0 Dairy products Raclette Courdavault 13158.8	✓

Пройшов усі тести! ✓

Правильно

Бали за цю відповідь: 1,00/1,00.

Питання 7

Правильно

Балів 1,00 з 1,00

Your boss wants to know the name of the company that placed order 10290.

Use the model:

Note. Use subquery.

For example:

Тест	Result

`-- Testing with original db`	`company_name`
	`----------`
	`Comurcio Mineiro`

Відповідь: (penalty regime: 0 %)

```
SELECT company_name
FROM customers
WHERE customer_id = (
    SELECT customer_id
    FROM orders
    WHERE order_id = 10290
);

```

	Тест	Expected	Got	

✓	`-- Testing with original db`	`company_name`
		`----------`
		`Comurcio Mineiro`
			`company_name`
			`----------`
			`Comurcio Mineiro`
				✓

	Тест	Expected	Got	

✓	`-- Testing with extra row`	`company_name`
		`----------`
		`Alfreds Futterkiste`
			`company_name`
			`----------`
			`Alfreds Futterkiste`
				✓

Пройшов усі тести! ✓

Правильно

Бали за цю відповідь: 1,00/1,00.

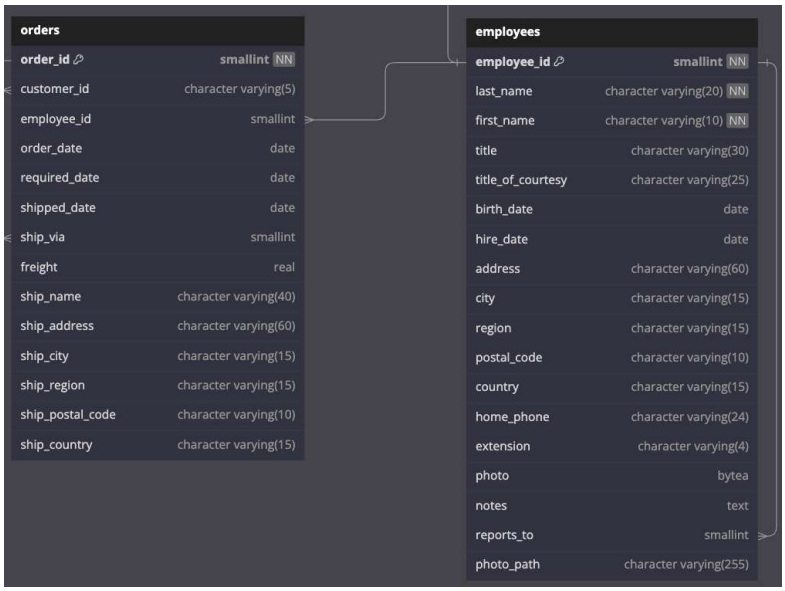
Питання 8

Правильно

Балів 1,00 з 1,00

Some sales managers have more orders arriving late than others. Maybe they're not following up on the order process, and need more training. Your boss has been doing some more thinking about the problem of late orders (when order was delivered later than was required). He realized that just looking at the number of orders arriving late for each sales managers isn't a good idea. It needs to be compared against the total number of orders per sales managers.

Use the model:



Note. To determine which orders are late, you can use a comparison of the **required_date** and **shipped_date**.
Use the aliases **all_orders** and **late_orders** for the calculated columns.
You'll need to join the **employees** table to get the **last_name**, and also add COUNT to show the total late orders.

For example:

Тест	Result

`-- Testing with original db`	`employee_id  last_name  all_orders  late_orders`
	`-----------  ---------  ----------  -----------`
	`1  Davolio  123  2`
	`2  Fuller  96  4`
	`3  Leverling  127  5`
	`4  Peacock  156  10`
	`5  Buchanan  42  1`
	`6  Suyama  67  3`
	`7  King  72  4`
	`8  Callahan  104  4`
	`9  Dodsworth  43  4`

Відповідь: (penalty regime: 0 %)

```
SELECT
    e.employee_id,
    e.last_name,
    COUNT(o.order_id) AS all_orders,
    SUM(CASE
        WHEN o.shipped_date > o.required_date THEN 1
        ELSE 0
    END) AS late_orders
FROM employees e
JOIN orders o ON e.employee_id = o.employee_id
GROUP BY e.employee_id, e.last_name
HAVING SUM(CASE
            WHEN o.shipped_date > o.required_date THEN 1
            ELSE 0
        END) > 0
ORDER BY e.employee_id;

```

	Тест	Expected	Got	
✓	-- Testing with original db	employee_id last_name all_orders late_orders ----------- --------- ---------- ------- 1 Davolio 123 2 2 Fuller 96 4 3 Leverling 127 5 4 Peacock 156 10 5 Buchanan 42 1 6 Suyama 67 3 7 King 72 4 8 Callahan 104 4 9 Dodsworth 43 4	employee_id last_name all_orders late_orders ----------- --------- ---------- ------- 1 Davolio 123 2 2 Fuller 96 4 3 Leverling 127 5 4 Peacock 156 10 5 Buchanan 42 1 6 Suyama 67 3 7 King 72 4 8 Callahan 104 4 9 Dodsworth 43 4	✓
✓	-- Testing with extra row	employee_id last_name all_orders late_orders ----------- --------- ---------- ------- 1 Davolio 123 2 2 Fuller 96 4 3 Leverling 127 5 5 Buchanan 42 1 6 Suyama 67 3 7 King 72 4 8 Callahan 104 4 9 Dodsworth 43 4	employee_id last_name all_orders late_orders ----------- --------- ---------- ------- 1 Davolio 123 2 2 Fuller 96 4 3 Leverling 127 5 5 Buchanan 42 1 6 Suyama 67 3 7 King 72 4 8 Callahan 104 4 9 Dodsworth 43 4	✓

Пройшов усі тести! ✓

Правильно

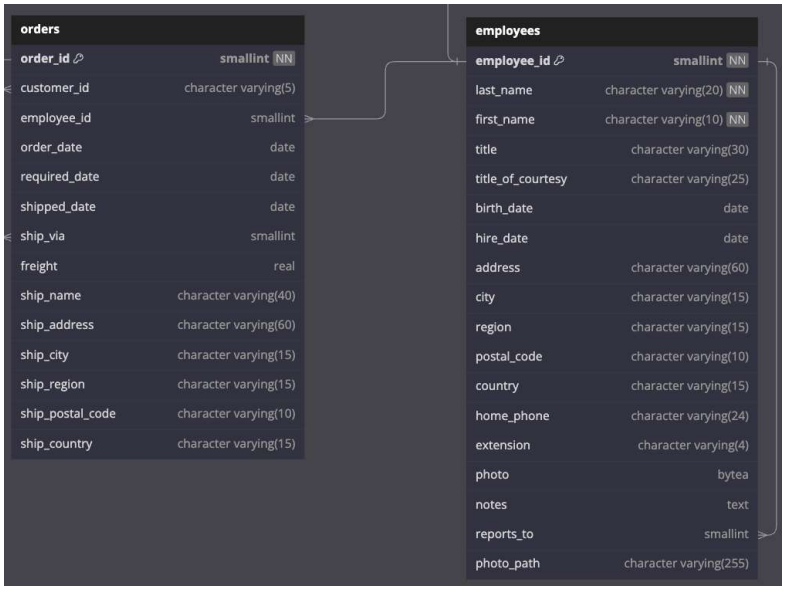
Бали за цю відповідь: 1,00/1,00.

Питання 9

Правильно

Балів 1,00 з 1,00

We know that Andrew Fuller is the Vice President of Northwind Company. Create the report that shows the list of those employees (**last_name** and **first_name**) who processed more orders than Fuller did.
Use the model:



Note. Use the subqueries.

For example:

Тест	Result

`-- Testing with original db`	`last_name  first_name`
	`---------  ----------`
	`Davolio  Nancy`
	`Leverling  Janet`
	`Peacock  Margaret`
	`Callahan  Laura`

Відповідь: (penalty regime: 0 %)

```
SELECT e.last_name, e.first_name
FROM employees e
WHERE (
    SELECT COUNT(*)
    FROM orders o
    WHERE o.employee_id = e.employee_id
) > (
    SELECT COUNT(*)
    FROM orders o
    JOIN employees e2 ON o.employee_id = e2.employee_id
    WHERE e2.first_name = 'Andrew' AND e2.last_name = 'Fuller'
);

```

	Тест	Expected	Got	

✓	`-- Testing with original db`	`last_name first_name`
		`--------- ----------`
		`Davolio Nancy`
		`Leverling Janet`
		`Peacock Margaret`
		`Callahan Laura`
			`last_name first_name`
			`--------- ----------`
			`Davolio Nancy`
			`Leverling Janet`
			`Peacock Margaret`
			`Callahan Laura`
				✓

✓	`-- Testing with extra row`	`last_name first_name`
		`--------- ----------`
		`Huge Tomas`
		`Leverling Janet`
		`Peacock Margaret`
		`Callahan Laura`
			`last_name first_name`
			`--------- ----------`
			`Huge Tomas`
			`Leverling Janet`
			`Peacock Margaret`
			`Callahan Laura`
				✓

Пройшов усі тести! ✓

Правильно

Бали за цю відповідь: 1,00/1,00.

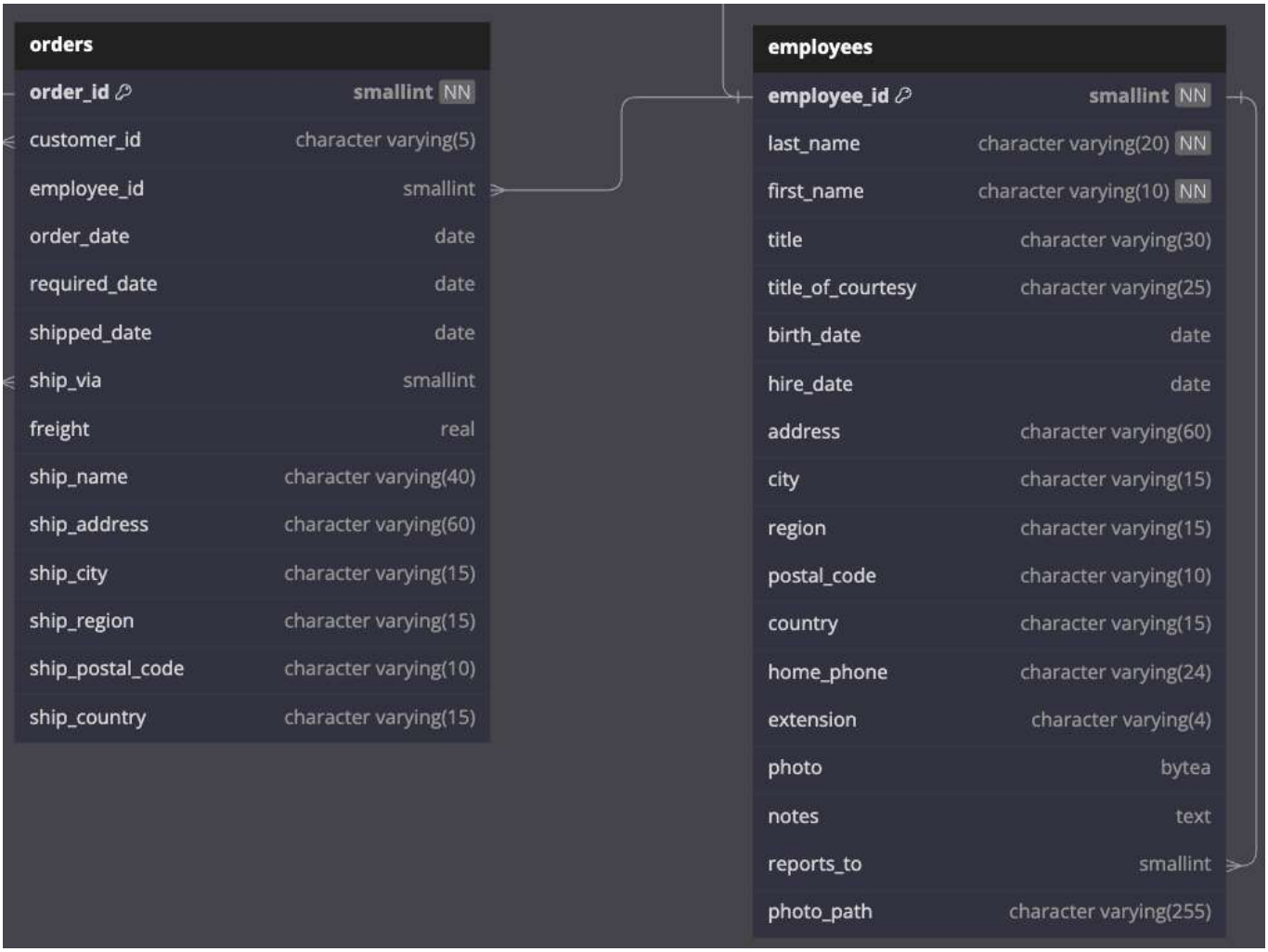
Питання 10

Правильно

Балів 1,00 з 1,00

Write the query that should return the **employee_id**, **order_id** and **order_date**. The criteria for the report is that the order must be the last for each employee (maximum **order_date**)

Use the model:



Note. Use the correlated subquery.

For example:

Тест	Result

`-- Testing with original db`	`employee_id  order_id  order_date`
	`-----------  --------  ----------`
	`1  11077  2016-05-11`
	`2  11059  2016-05-18`
	`3  11063  2016-05-05`
	`4  11061  2016-05-19`
	`5  11043  2016-04-27`
	`6  11045  2016-04-28`
	`7  11074  2016-05-11`
	`8  11075  2016-05-11`
	`9  11058  2016-05-04`

Відповідь: (penalty regime: 0 %)

```
SELECT
    employee_id,
    order_id,
    order_date
FROM orders o1
WHERE order_date = (
    SELECT MAX(order_date)
```

```
    FROM orders o2
    WHERE o2.employee_id = o1.employee_id
)
ORDER BY employee_id;

```

	Тест	Expected			Got			
✓	-- Testing with original db	employee_id	order_id	order_date	employee_id	order_id	order_date	✓
		1	11077	2016-05-11	1	11077	2016-05-11	
		2	11059	2016-05-18	2	11059	2016-05-18	
		3	11063	2016-05-05	3	11063	2016-05-05	
		4	11061	2016-05-19	4	11061	2016-05-19	
		5	11043	2016-04-27	5	11043	2016-04-27	
		6	11045	2016-04-28	6	11045	2016-04-28	
		7	11074	2016-05-11	7	11074	2016-05-11	
		8	11075	2016-05-11	8	11075	2016-05-11	
		9	11058	2016-05-04	9	11058	2016-05-04	
✓	-- Testing with extra row	employee_id	order_id	order_date	employee_id	order_id	order_date	✓
		1	11077	2016-05-11	1	11077	2016-05-11	
		2	11059	2016-05-18	2	11059	2016-05-18	
		3	11063	2016-05-05	3	11063	2016-05-05	
		4	11061	2016-05-19	4	11061	2016-05-19	
		5	11043	2016-04-27	5	11043	2016-04-27	
		6	11045	2016-04-28	6	11045	2016-04-28	
		7	11074	2016-05-11	7	11074	2016-05-11	
		8	11075	2016-05-11	8	11075	2016-05-11	
		9	11022	2016-04-19	9	11022	2016-04-19	

Пройшов усі тести! ✓

Правильно

Бали за цю відповідь: 1,00/1,00.