

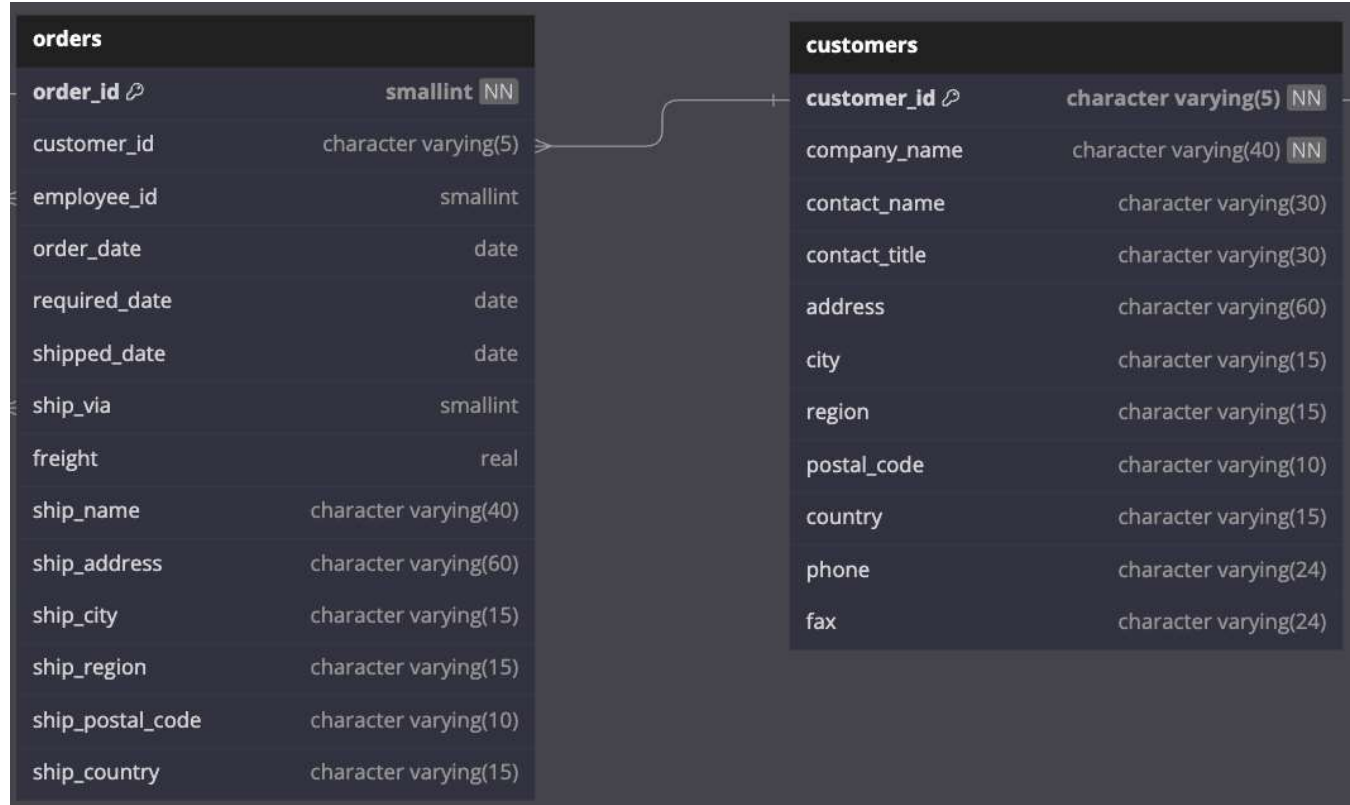
Питання 1

Правильно

Балів 1,00 з 1,00

Create a report that shows the **company_name** and total **number_of_orders** by the **customers** since December 31, 1995 (for test use 2015, see note). Show the **number_of_orders** greater than 10.

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 **1995** to **2015** when you copy your code from **supabase**.

For example:

Тест	Result
-- Testing with original db	company_name number_of_orders ----- Save-a-lot Markets 11

Відповідь: (penalty regime: 0 %)

```
1 | SELECT c.company_name, COUNT(o.order_id) AS number_of_orders
2 | FROM customers AS c
3 | JOIN orders AS o ON c.customer_id = o.customer_id
4 | WHERE o.order_date > '2015-12-31'
5 | GROUP BY c.customer_id
6 | HAVING COUNT(o.order_id) > 10
7 | ORDER BY company_name;
```



	Тест	Expected	Got	
✓	-- Testing with original db	company_name number_of_orders ----- Save-a-lot Markets 11	company_name number_of_orders ----- Save-a-lot Markets 11	✓
✓	-- Testing with extra row	company_name number_of_orders ----- -- Bottom-Dollar Markets 13 Ernst Handel 19 Folk och fu HB 14 HILARION-Abastos 12 LILA-Supermercado 12 La maison d'Asie 11 QUICK-Stop 16 Rattlesnake Canyon Grocery 14 Save-a-lot Markets 16 Suprumes dulices 11	company_name number_of_orders ----- -- Bottom-Dollar Markets 13 Ernst Handel 19 Folk och fu HB 14 HILARION-Abastos 12 LILA-Supermercado 12 La maison d'Asie 11 QUICK-Stop 16 Rattlesnake Canyon Grocery 14 Save-a-lot Markets 16 Suprumes dulices 11	✓

Пройшов усі тести! ✓

Правильно

Бали за цю відповідь: 1,00/1,00.

Питання 2

Правильно

Балів 1,00 з 1,00

Create a report that shows the **employee_id**, the **last_name** and **first_name** as **employee** (alias), and the **last_name** and **first_name** of who they report to as **manager** (alias) from the **employees** table sorted by **employee_id**.

Use the model:

employees		
employee_id		smallint NN
last_name		character varying(20) NN
first_name		character varying(10) NN
title		character varying(30)
title_of_courtesy		character varying(25)
birth_date		date
hire_date		date
address		character varying(60)
city		character varying(15)
region		character varying(15)
postal_code		character varying(10)
country		character varying(15)
home_phone		character varying(24)
extension		character varying(4)
photo		bytea
notes		text
reports_to		smallint
photo_path		character varying(255)

Note. This is a SelfJoin using **report_to** column.

For example:

Тест	Result		
-- Testing with original db	employee_id	employee	manager
	-----	-----	-----
	1	Davolio Nancy	Fuller Andrew
	2	Fuller Andrew	
	3	Leverling Janet	Fuller Andrew
	4	Peacock Margaret	Fuller Andrew
	5	Buchanan Steven	Fuller Andrew
	6	Suyama Michael	Buchanan Steven
	7	King Robert	Buchanan Steven
	8	Callahan Laura	Fuller Andrew
	9	Dodsworth Anne	Buchanan Steven
	11	Jhon Dou	
	12	Ann Miller	

Відповідь: (penalty regime: 0 %)

```
1 SELECT e.employee_id,
2       e.last_name || ' ' || e.first_name AS employee,
3       m.last_name || ' ' || m.first_name AS manager
4 FROM employees AS e
5 LEFT JOIN employees AS m ON e.reports_to = m.employee_id
6 ORDER BY e.employee_id;
7
```



	Тест	Expected	Got	
✓	-- Testing with original db	<div> <div>employee_id employee manager</div> <div>-----</div> <div>---</div> <div>1 Davolio Nancy Fuller</div> <div>Andrew</div> <div>2 Fuller Andrew</div> <div>3 Leverling Janet Fuller</div> <div>Andrew</div> <div>4 Peacock Margaret Fuller</div> <div>Andrew</div> <div>5 Buchanan Steven Fuller</div> <div>Andrew</div> <div>6 Suyama Michael Buchanan</div> <div>Steven</div> <div>7 King Robert Buchanan</div> <div>Steven</div> <div>8 Callahan Laura Fuller</div> <div>Andrew</div> <div>9 Dodsworth Anne Buchanan</div> <div>Steven</div> <div>11 Jhon Dou</div> <div>12 Ann Miller</div> </div>	<div> <div>employee_id employee manager</div> <div>-----</div> <div>---</div> <div>1 Davolio Nancy Fuller</div> <div>Andrew</div> <div>2 Fuller Andrew</div> <div>3 Leverling Janet Fuller</div> <div>Andrew</div> <div>4 Peacock Margaret Fuller</div> <div>Andrew</div> <div>5 Buchanan Steven Fuller</div> <div>Andrew</div> <div>6 Suyama Michael Buchanan</div> <div>Steven</div> <div>7 King Robert Buchanan</div> <div>Steven</div> <div>8 Callahan Laura Fuller</div> <div>Andrew</div> <div>9 Dodsworth Anne Buchanan</div> <div>Steven</div> <div>11 Jhon Dou</div> <div>12 Ann Miller</div> </div>	✓
✓	-- Testing with extra row	<div> <div>employee_id employee manager</div> <div>-----</div> <div>---</div> <div>1 Davolio Nancy Fuller</div> <div>Andrew</div> <div>2 Fuller Andrew</div> <div>3 Leverling Janet Fuller</div> <div>Andrew</div> <div>4 Peacock Margaret Fuller</div> <div>Andrew</div> <div>5 Buchanan Steven Fuller</div> <div>Andrew</div> <div>6 Suyama Michael Buchanan</div> <div>Steven</div> <div>7 King Robert Buchanan</div> <div>Steven</div> <div>8 Callahan Laura Fuller</div> <div>Andrew</div> <div>9 Dodsworth Anne Buchanan</div> <div>Steven</div> <div>11 Jhon Dou</div> <div>Andrew</div> <div>12 Ann Miller</div> </div>	<div> <div>employee_id employee manager</div> <div>-----</div> <div>---</div> <div>1 Davolio Nancy Fuller</div> <div>Andrew</div> <div>2 Fuller Andrew</div> <div>3 Leverling Janet Fuller</div> <div>Andrew</div> <div>4 Peacock Margaret Fuller</div> <div>Andrew</div> <div>5 Buchanan Steven Fuller</div> <div>Andrew</div> <div>6 Suyama Michael Buchanan</div> <div>Steven</div> <div>7 King Robert Buchanan</div> <div>Steven</div> <div>8 Callahan Laura Fuller</div> <div>Andrew</div> <div>9 Dodsworth Anne Buchanan</div> <div>Steven</div> <div>11 Jhon Dou</div> <div>Andrew</div> <div>12 Ann Miller</div> </div>	✓

Пройшов усі тести! ✓

Правильно

Бали за цю відповідь: 1,00/1,00.

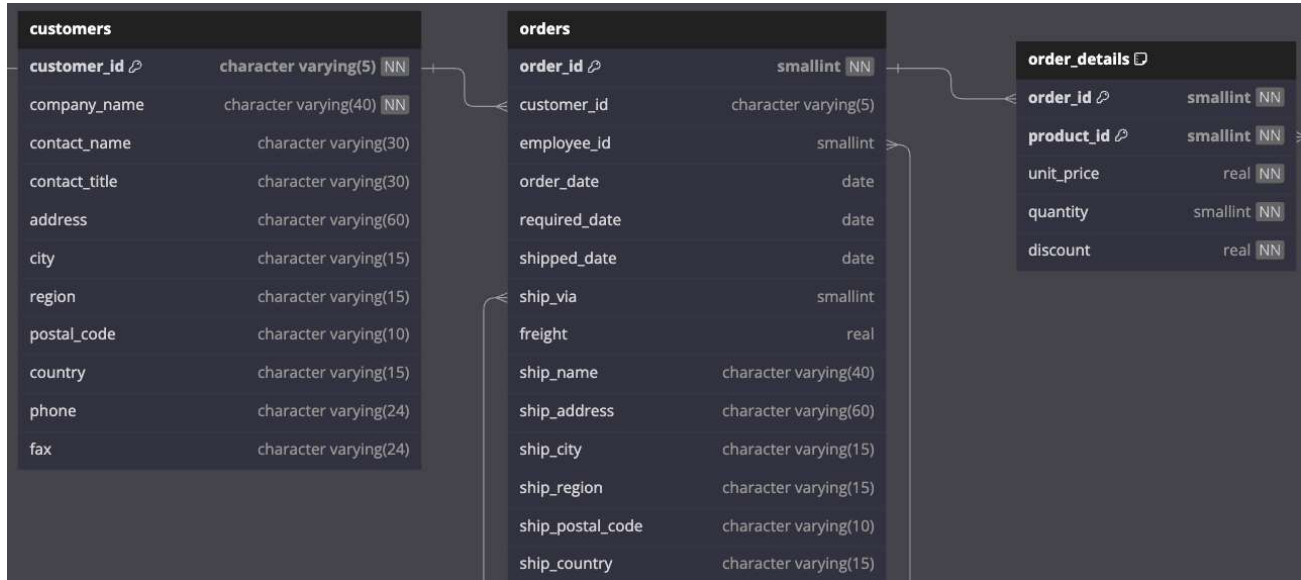
Питання 3

Правильно

Балів 1,00 з 1,00

Create a report that shows the **contact_name** of customer, **total_sum** (alias for the calculated column **unit_price*quantity*(1-discount)**) from the **order_details**, and **customers** table with the **discount** given on every purchase. Show only VIP customers with **total_sum** greater than 10000.

Use the model:



Use ROUND() function to round **total_sum** to the 2nd digit after the decimal point and take into account only those products that are discounted.

Note. The test is running using SQLite Database that has the same structure, but slightly different information!

In **supabase** you might need to cast the **<value>** of the ROUND function to **numeric** type which is not needed in the test.

For example:

Тест	Result																										
-- Testing with original db	<table> <thead> <tr> <th>contact_name</th><th>total_sum</th></tr> </thead> <tbody> <tr><td>Christina Berglund</td><td>10594.33</td></tr> <tr><td>Georg Pipp</td><td>12461.36</td></tr> <tr><td>Horst Kloss</td><td>55707.02</td></tr> <tr><td>Howard Snyder</td><td>15742.25</td></tr> <tr><td>Jean Fresniure</td><td>21411.09</td></tr> <tr><td>Jose Pavarotti</td><td>49746.36</td></tr> <tr><td>Laurence Lebihan</td><td>13601.55</td></tr> <tr><td>Lucia Carvalho</td><td>19706.9</td></tr> <tr><td>Maria Larsson</td><td>12167.06</td></tr> <tr><td>Patricia McKenna</td><td>29021.27</td></tr> <tr><td>Peter Franken</td><td>14199.96</td></tr> <tr><td>Roland Mendel</td><td>53054.98</td></tr> </tbody> </table>	contact_name	total_sum	Christina Berglund	10594.33	Georg Pipp	12461.36	Horst Kloss	55707.02	Howard Snyder	15742.25	Jean Fresniure	21411.09	Jose Pavarotti	49746.36	Laurence Lebihan	13601.55	Lucia Carvalho	19706.9	Maria Larsson	12167.06	Patricia McKenna	29021.27	Peter Franken	14199.96	Roland Mendel	53054.98
contact_name	total_sum																										
Christina Berglund	10594.33																										
Georg Pipp	12461.36																										
Horst Kloss	55707.02																										
Howard Snyder	15742.25																										
Jean Fresniure	21411.09																										
Jose Pavarotti	49746.36																										
Laurence Lebihan	13601.55																										
Lucia Carvalho	19706.9																										
Maria Larsson	12167.06																										
Patricia McKenna	29021.27																										
Peter Franken	14199.96																										
Roland Mendel	53054.98																										

Відповідь: (penalty regime: 0 %)

```

1 SELECT c.contact_name,
2       ROUND(SUM(od.unit_price * od.quantity * (1 - od.discount)), 2) AS total_sum
3 FROM customers AS c
4 JOIN orders AS o ON c.customer_id = o.customer_id
5 JOIN order_details AS od ON o.order_id = od.order_id
6 WHERE od.discount > 0
7 GROUP BY c.contact_name
8 HAVING total_sum > 10000
9 ORDER BY contact_name;
10
  
```



	Tecr	Expected		Got		
✔	-- Testing with original db	contact_name	total_sum	contact_name	total_sum	✔
		-----	-----	-----	-----	
		Christina Berglund	10594.33	Christina Berglund	10594.33	
		Georg PIPps	12461.36	Georg PIPps	12461.36	
		Horst Kloss	55707.02	Horst Kloss	55707.02	
		Howard Snyder	15742.25	Howard Snyder	15742.25	
		Jean Fresniure	21411.09	Jean Fresniure	21411.09	
		Jose Pavarotti	49746.36	Jose Pavarotti	49746.36	
		Laurence Lebihan	13601.55	Laurence Lebihan	13601.55	
		Lucia Carvalho	19706.9	Lucia Carvalho	19706.9	
		Maria Larsson	12167.06	Maria Larsson	12167.06	
		Patricia McKenna	29021.27	Patricia McKenna	29021.27	
		Peter Franken	14199.96	Peter Franken	14199.96	
		Roland Mendel	53054.98	Roland Mendel	53054.98	
✔	-- Testing with extra row	contact_name	total_sum	contact_name	total_sum	✔
		-----	-----	-----	-----	
		Ann Miller	53054.98	Ann Miller	53054.98	
		Christina Berglund	10594.33	Christina Berglund	10594.33	
		Georg PIPps	12461.36	Georg PIPps	12461.36	
		Horst Kloss	55707.02	Horst Kloss	55707.02	
		Howard Snyder	15742.25	Howard Snyder	15742.25	
		Jean Fresniure	21411.09	Jean Fresniure	21411.09	
		Jose Pavarotti	49746.36	Jose Pavarotti	49746.36	
		Laurence Lebihan	13601.55	Laurence Lebihan	13601.55	
		Lucia Carvalho	19706.9	Lucia Carvalho	19706.9	
		Maria Larsson	12167.06	Maria Larsson	12167.06	
		Patricia McKenna	29021.27	Patricia McKenna	29021.27	
		Peter Franken	14199.96	Peter Franken	14199.96	

Пройшов усі тести! ✓

Правильно

Бали за цю відповідь: 1,00/1,00.

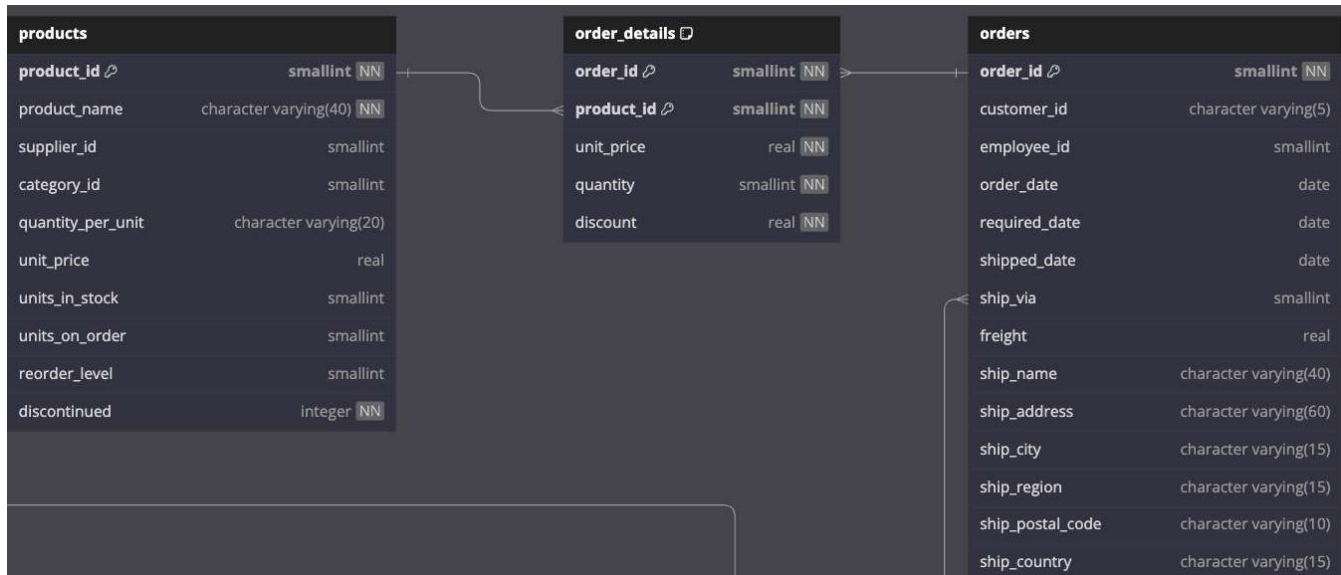
Питання 4

Правильно

Балів 1,00 з 1,00

Create a report that shows the total quantity of products (alias **total_units**) ordered. Only show records for products for which the **quantity** ordered is fewer than 200.

Use the model:



For example:

Тест	Result												
-- Testing with original db	<table> <thead> <tr> <th>product_name</th><th>total_units</th></tr> </thead> <tbody> <tr> <td>Chocolade</td><td>138</td></tr> <tr> <td>Genen Shouyu</td><td>122</td></tr> <tr> <td>Gravad lax</td><td>125</td></tr> <tr> <td>Laughing Lumberjack Lager</td><td>184</td></tr> <tr> <td>Mishi Kobe Niku</td><td>95</td></tr> </tbody> </table>	product_name	total_units	Chocolade	138	Genen Shouyu	122	Gravad lax	125	Laughing Lumberjack Lager	184	Mishi Kobe Niku	95
product_name	total_units												
Chocolade	138												
Genen Shouyu	122												
Gravad lax	125												
Laughing Lumberjack Lager	184												
Mishi Kobe Niku	95												

Відповідь: (penalty regime: 0 %)

```

1 SELECT p.product_name,
2       SUM(od.quantity) AS total_units
3 FROM products AS p
4 JOIN order_details AS od ON p.product_id = od.product_id
5 GROUP BY p.product_name
6 HAVING total_units < 200;
7

```

	Tecr	Expected		Got		
✓	-- Testing with original db	product_name	total_units	product_name	total_units	✓
		-----	-----	-----	-----	
		Chocolade	138	Chocolade	138	
		Genen Shouyu	122	Genen Shouyu	122	
		Gravad lax	125	Gravad lax	125	
		Laughing Lumberjack Lager	184	Laughing Lumberjack Lager	184	
		Mishi Kobe Niku	95	Mishi Kobe Niku	95	
✓	-- Testing with extra row	product_name	total_units	product_name	total_units	✓
		-----	-----	-----	-----	
		Chocolade	90	Chocolade	90	
		Genen Shouyu	122	Genen Shouyu	122	
		Gravad lax	125	Gravad lax	125	
		Laughing Lumberjack Lager	184	Laughing Lumberjack Lager	184	
		Mishi Kobe Niku	95	Mishi Kobe Niku	95	

Пройшов усі тести! ✓

Правильно

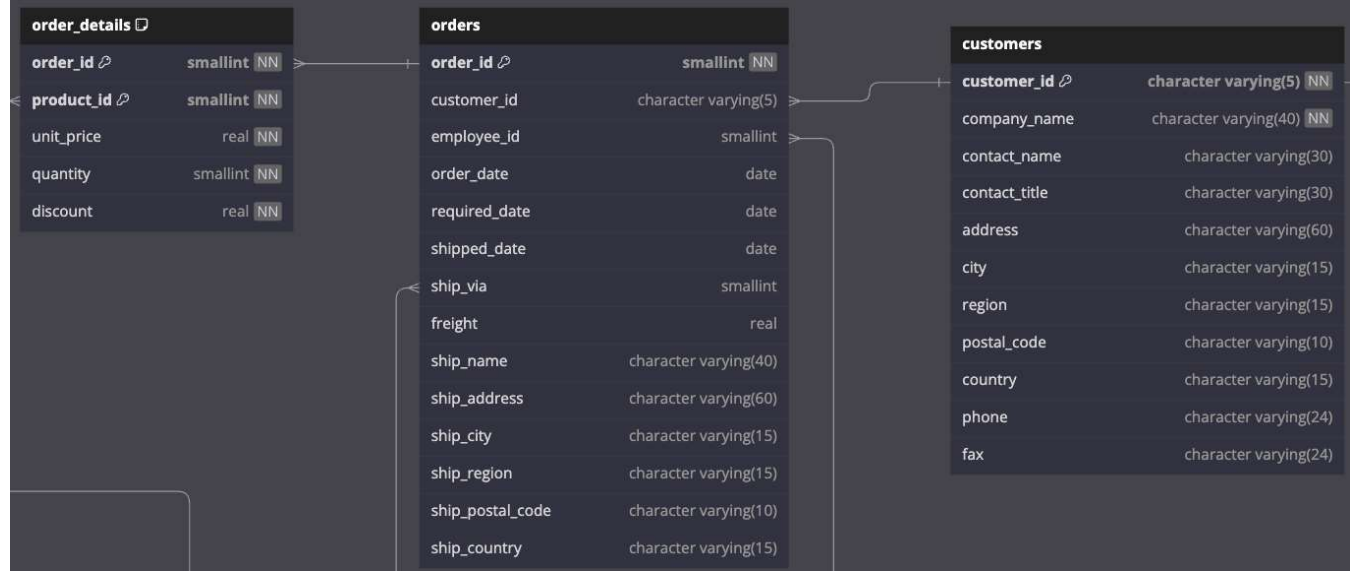
Бали за цю відповідь: 1,00/1,00.

Питання 5

Правильно

Балів 1,00 з 1,00

Create a report that shows the total number of orders (alias **num_orders**) by Customer since December 31, 1995 (*for test use 2015, see note*). The report should only return rows for which the **num_orders** is greater than 5. The result should be sorted by **num_orders** descending. 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 **1995** to **2015** when you copy your code from **supabase**.

For example:

Тест	Result																												
-- Testing with original db	<table><tr><th>company_name</th><th>num_orders</th></tr><tr><td>-----</td><td>-----</td></tr><tr><td>Save-a-lot Markets</td><td>11</td></tr><tr><td>Folk och fu HB</td><td>9</td></tr><tr><td>Ernst Handel</td><td>9</td></tr><tr><td>QUICK-Stop</td><td>8</td></tr><tr><td>Bottom-Dollar Markets</td><td>8</td></tr><tr><td>LINO-Delicateses</td><td>7</td></tr><tr><td>Hanari Carnes</td><td>7</td></tr><tr><td>Godos Cocina Tipica</td><td>7</td></tr><tr><td>Suprumes dulices</td><td>6</td></tr><tr><td>Rattlesnake Canyon Grocery</td><td>6</td></tr><tr><td>HILARION-Abastos</td><td>6</td></tr><tr><td>Bon app'</td><td>6</td></tr></table>	company_name	num_orders	-----	-----	Save-a-lot Markets	11	Folk och fu HB	9	Ernst Handel	9	QUICK-Stop	8	Bottom-Dollar Markets	8	LINO-Delicateses	7	Hanari Carnes	7	Godos Cocina Tipica	7	Suprumes dulices	6	Rattlesnake Canyon Grocery	6	HILARION-Abastos	6	Bon app'	6
company_name	num_orders																												
-----	-----																												
Save-a-lot Markets	11																												
Folk och fu HB	9																												
Ernst Handel	9																												
QUICK-Stop	8																												
Bottom-Dollar Markets	8																												
LINO-Delicateses	7																												
Hanari Carnes	7																												
Godos Cocina Tipica	7																												
Suprumes dulices	6																												
Rattlesnake Canyon Grocery	6																												
HILARION-Abastos	6																												
Bon app'	6																												

Відповідь: (penalty regime: 0 %)

```
1 SELECT c.company_name,
2       COUNT(o.order_id) AS num_orders
3 FROM customers AS c
4 JOIN orders AS o ON c.customer_id = o.customer_id
5 WHERE o.order_date > '2015-12-31'
6 GROUP BY c.company_name
7 HAVING num_orders > 5
8 ORDER BY num_orders DESC;
9
```



	Tect	Expected		Got		
✓	-- Testing with original db	company_name	num_orders	company_name	num_orders	✓
		-----	-----	-----	-----	
		Save-a-lot Markets	11	Save-a-lot Markets	11	
		Folk och fu HB	9	Folk och fu HB	9	
		Ernst Handel	9	Ernst Handel	9	
		QUICK-Stop	8	QUICK-Stop	8	
		Bottom-Dollar Markets	8	Bottom-Dollar Markets	8	
		LINO-Delicateses	7	LINO-Delicateses	7	
		Hanari Carnes	7	Hanari Carnes	7	
		Godos Cocina Tupica	7	Godos Cocina Tupica	7	
		Suprums dulices	6	Suprums dulices	6	
		Rattlesnake Canyon Grocery	6	Rattlesnake Canyon Grocery	6	
		HILARION-Abastos	6	HILARION-Abastos	6	
Bon app'	6	Bon app'	6			
✓	-- Testing with extra row	company_name	num_orders	company_name	num_orders	✓
		-----	-----	-----	-----	
		Save-a-lot Markets	11	Save-a-lot Markets	11	
		Vins et alcools Chevalier	9	Vins et alcools Chevalier	9	
		Ernst Handel	9	Ernst Handel	9	
		QUICK-Stop	8	QUICK-Stop	8	
		Bottom-Dollar Markets	8	Bottom-Dollar Markets	8	
		LINO-Delicateses	7	LINO-Delicateses	7	
		Hanari Carnes	7	Hanari Carnes	7	
		Godos Cocina Tupica	7	Godos Cocina Tupica	7	
		Suprums dulices	6	Suprums dulices	6	
		Rattlesnake Canyon Grocery	6	Rattlesnake Canyon Grocery	6	
		HILARION-Abastos	6	HILARION-Abastos	6	
Bon app'	6	Bon app'	6			

Пройшов усі тести! ✓

Правильно

Бали за цю відповідь: 1,00/1,00.

Питання 6

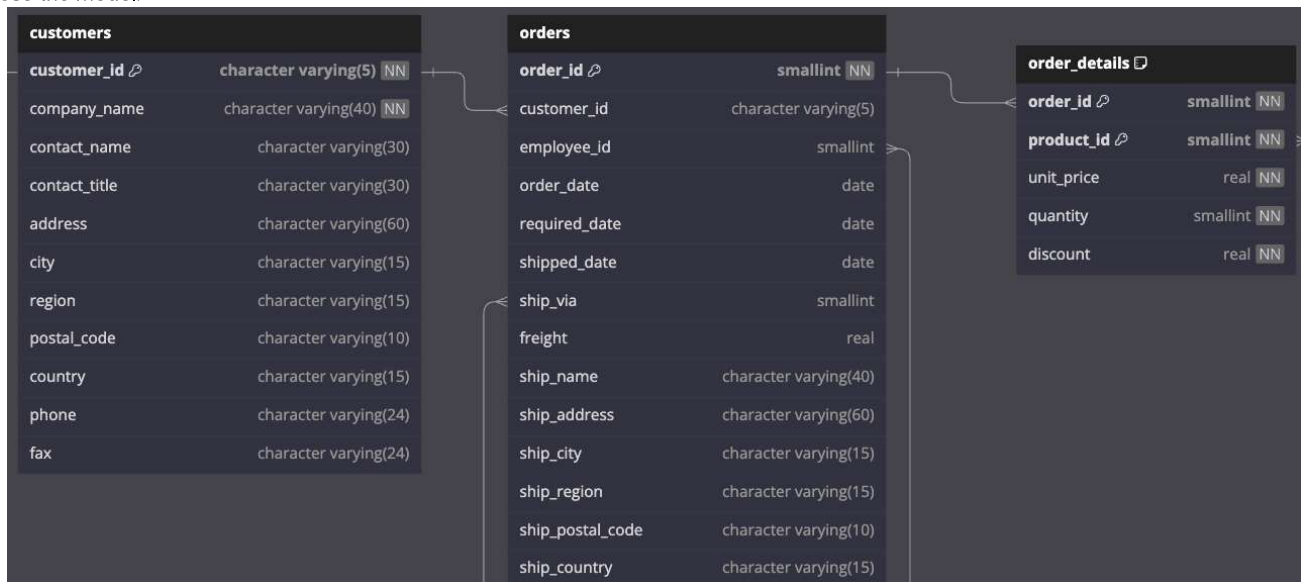
Правильно

Балів 1,00 з 1,00

Create a report that shows the **company_name**, **order_id**, and total earnings (alias **total_price**) for each order of the specified customer to which Northwind has sold more than \$10,000 worth for a single order, taking into account only those products that are **discounted**.

The result should be sorted by **total_price** descending

Use the model:



Use ROUND() function to round **total_price** to the 2nd digit after the decimal point.

Note. The test is running using SQLite Database that has the same structure, but slightly different information!

In **supabase** you might need to cast the **<value>** of the ROUND function to **numeric** type which is not needed in the test.

For example:

Tecr	Result		
-- Testing with original db	company_name	order_id	total_price
	-----	-----	-----
	QUICK-Stop	10865	16387.5
	Save-a-lot Markets	11030	11120.55

Відповідь: (penalty regime: 0 %)

```

1 SELECT c.company_name,
2       o.order_id,
3       ROUND(SUM(od.unit_price * od.quantity * (1 - od.discount)), 2) AS total_price
4 FROM customers AS c
5 JOIN orders AS o ON c.customer_id = o.customer_id
6 JOIN order_details AS od ON o.order_id = od.order_id
7 WHERE od.discount > 0
8 GROUP BY c.company_name, o.order_id
9 HAVING total_price > 10000
10 ORDER BY total_price DESC;
11

```

	Тест	Expected			Got			
✓	-- Testing with original db	company_name	order_id	total_price	company_name	order_id	total_price	✓
		-----	-----	-----	-----	-----	-----	
		QUICK-Stop	10865	16387.5	QUICK-Stop	10865	16387.5	
		Save-a-lot Markets	11030	11120.55	Save-a-lot Markets	11030	11120.55	
✓	-- Testing with extra row	company_name	order_id	total_price	company_name	order_id	total_price	✓
		-----	-----	-----	-----	-----	-----	
		QUICK-Stop	10865	16387.5	QUICK-Stop	10865	16387.5	
		Save-a-lot Markets	11030	11120.55	Save-a-lot Markets	11030	11120.55	

Пройшов усі тести! ✓

Правильно

Бали за цю відповідь: 1,00/1,00.

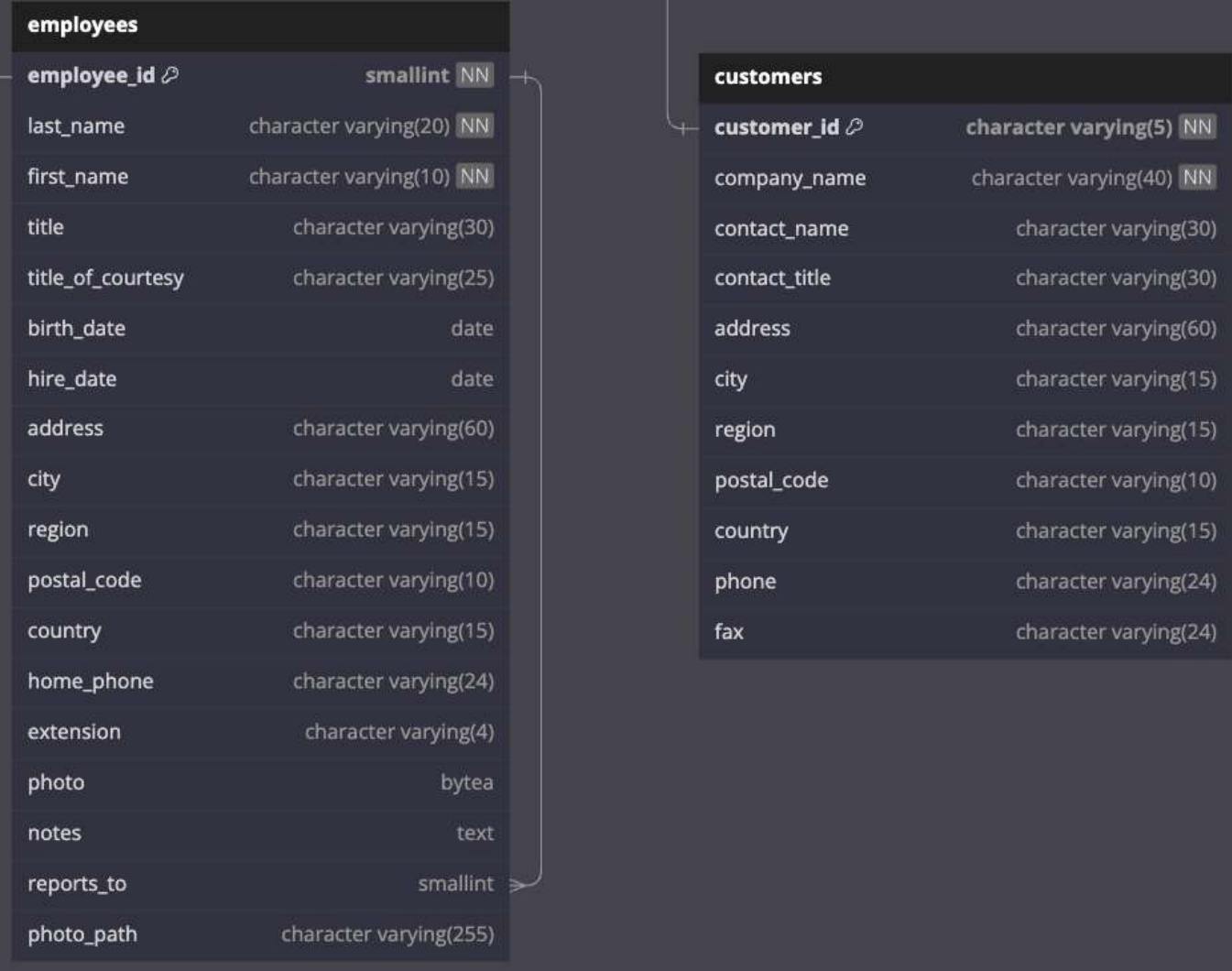
Питання 7

Правильно

Балів 1,00 з 1,00

Create a report that shows the number of employees (alias **num_employees**) and number of customers (alias **num_companies**) from each city that has employees in it.
The result should be ordered by **num_employees**.

Use the model:



For example:

Tecr	Result		
-- Testing with original db	num_employees	num_companies	city
	-----	-----	-----
	1	1	Kirkland
	2	1	Seattle
	4	6	London

Відповідь: (penalty regime: 0 %)

```
1 | SELECT COUNT(DISTINCT e.employee_id) AS num_employees,
2 |        COUNT(DISTINCT c.customer_id) AS num_companies,
3 |        e.city
4 | FROM employees AS e
5 | JOIN customers AS c ON e.city = c.city
6 | GROUP BY e.city
7 | ORDER BY num_employees;
8 |
```



	Тест	Expected			Got			
✓	-- Testing with original db	num_employees	num_companies	city	num_employees	num_companies	city	✓
		-----	-----	-----	-----	-----	-----	
		1	1	Kirkland	1	1	Kirkland	
		2	1	Seattle	2	1	Seattle	
		4	6	London	4	6	London	
✓	-- Testing with extra row	num_employees	num_companies	city	num_employees	num_companies	city	✓
		-----	-----	-----	-----	-----	-----	
		1	1	Kirkland	1	1	Kirkland	
		2	1	Seattle	2	1	Seattle	
		4	1	Berlin	4	1	Berlin	

Пройшов усі тести! ✓

Правильно

Бали за цю відповідь: 1,00/1,00.

Питання 8

Правильно

Балів 1,00 з 1,00

Get the **last_name** and **first_name** of employees (alias **full_name**), **company_name** and **phone** of all employees (**home_phone** column), customers, and suppliers, who are situated in *London*.

Add the column (alias **type**) to the result set which should specify what type of counterparty (employee, customer, or supplier) it is.

Use the model:

employees		customers		suppliers	
employee_id	smallint NN	customer_id	character varying(5) NN	supplier_id	smallint NN
last_name	character varying(20) NN	company_name	character varying(40) NN	company_name	character varying(40) NN
first_name	character varying(10) NN	contact_name	character varying(30)	contact_name	character varying(30)
title	character varying(30)	contact_title	character varying(30)	contact_title	character varying(30)
title_of_courtesy	character varying(25)	address	character varying(60)	address	character varying(60)
birth_date	date	city	character varying(15)	city	character varying(15)
hire_date	date	region	character varying(15)	region	character varying(15)
address	character varying(60)	postal_code	character varying(10)	postal_code	character varying(10)
city	character varying(15)	country	character varying(15)	country	character varying(15)
region	character varying(15)	phone	character varying(24)	phone	character varying(24)
postal_code	character varying(10)	fax	character varying(24)	fax	character varying(24)
country	character varying(15)			homepage	text
home_phone	character varying(24)				
extension	character varying(4)				
photo	bytea				
notes	text				
reports_to	smallint				
photo_path	character varying(255)				

Note: Use UNION.

For example:

Тест	Result		
-- Testing with original db	full_name	phone	type
	-----	-----	-----
	Around the Horn	(171) 555-7788	customer
	B's Beverages	(171) 555-1212	customer
	Consolidated Holdings	(171) 555-2282	customer
	Eastern Connection	(171) 555-0297	customer
	North/South	(171) 555-7733	customer
	Seven Seas Imports	(171) 555-1717	customer
	Anne Dodsworth	(71) 555-4444	employee
	Michael Suyama	(71) 555-7773	employee
	Robert King	(71) 555-5598	employee
	Steven Buchanan	(71) 555-4848	employee
	Exotic Liquids	(171) 555-2222	supplier

Відповідь: (penalty regime: 0 %)

```

1 SELECT e.first_name || ' ' || e.last_name AS full_name, e.home_phone AS phone, 'employee' AS type
2 FROM employees AS e
3 WHERE e.city = 'London'
4
5 UNION
6
7 SELECT c.company_name AS full_name, c.phone, 'customer' AS type
8 FROM customers AS c
9 WHERE c.city = 'London'
10
11 UNION
12
13 SELECT s.company_name AS full_name, s.phone, 'supplier' AS type
14 FROM suppliers AS s
15 WHERE s.city = 'London'
16
17 ORDER BY type, full_name;
18

```



	Тест	Expected			Got			
✓	-- Testing with original db	full_name	phone	type	full_name	phone	type	✓
		-----	-----	---	-----	-----	---	
		----			----			
		Around the Horn customer	(171) 555-7788		Around the Horn customer	(171) 555-7788		
		B's Beverages customer	(171) 555-1212		B's Beverages customer	(171) 555-1212		
		Consolidated Holdings customer	(171) 555-2282		Consolidated Holdings customer	(171) 555-2282		
		Eastern Connection customer	(171) 555-0297		Eastern Connection customer	(171) 555-0297		
		North/South customer	(171) 555-7733		North/South customer	(171) 555-7733		
		Seven Seas Imports customer	(171) 555-1717		Seven Seas Imports customer	(171) 555-1717		
		Anne Dodsworth employee	(71) 555-4444		Anne Dodsworth employee	(71) 555-4444		
		Michael Suyama employee	(71) 555-7773		Michael Suyama employee	(71) 555-7773		
		Robert King employee	(71) 555-5598		Robert King employee	(71) 555-5598		
		Steven Buchanan employee	(71) 555-4848		Steven Buchanan employee	(71) 555-4848		
		Exotic Liquids supplier	(171) 555-2222		Exotic Liquids supplier	(171) 555-2222		
✓	-- Testing with extra row	full_name	phone	type	full_name	phone	type	✓
		-----	-----	---	-----	-----	---	
		----			----			
		Around the Horn customer	(171) 555-7788		Around the Horn customer	(171) 555-7788		
		B's Beverages customer	(171) 555-1212		B's Beverages customer	(171) 555-1212		
		Consolidated Holdings customer	(171) 555-2282		Consolidated Holdings customer	(171) 555-2282		
		Eastern Connection customer	(171) 555-0297		Eastern Connection customer	(171) 555-0297		
		North/South customer	(171) 555-7733		North/South customer	(171) 555-7733		
		Seven Seas Imports customer	(171) 555-1717		Seven Seas Imports customer	(171) 555-1717		
		Exotic Liquids supplier	(171) 555-2222		Exotic Liquids supplier	(171) 555-2222		

Пройшов усі тести! ✓

Правильно

Бали за цю відповідь: 1,00/1,00.

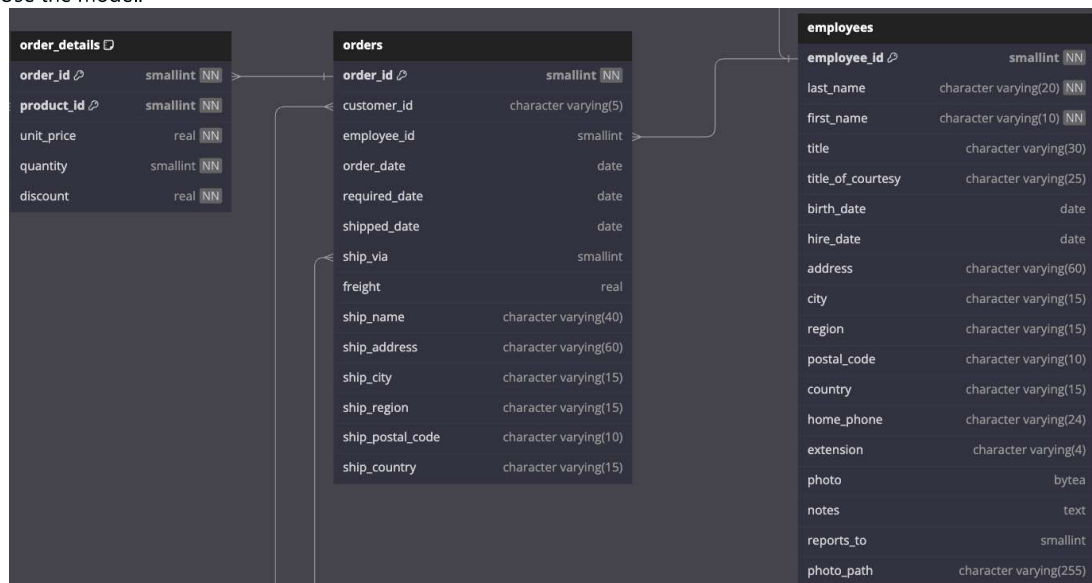
Питання 9

Правильно

Балів 1,00 з 1,00

Write the query which would show the list of employees (**first_name** and **last_name**) and their total sales with **discount** (alias **total_sales**) who have sold more than 200 positions of products.

Use the model:



Note. Use ROUND() function to round the **total_sales** values to the 2nd digit.

Note. The test is running using SQLite Database that has the same structure, but slightly different information!

In **supabase** you might need to cast the **<value>** of the ROUND function to **numeric** type which is not needed in the test.

For example:

Тест	Result
-- Testing with original db	<pre> first_name last_name total_sales ----- Andrew Fuller 166537.76 Janet Leverling 202812.84 Laura Callahan 126862.28 Margaret Peacock 232890.85 Nancy Davolio 192107.6 </pre>

Відповідь: (penalty regime: 0 %)

```

1 SELECT e.first_name, e.last_name,
2       ROUND(SUM(od.unit_price * od.quantity * (1 - od.discount))), 2) AS total_sales
3 FROM employees AS e
4 JOIN orders AS o ON e.employee_id = o.employee_id
5 JOIN order_details AS od ON o.order_id = od.order_id
6 GROUP BY e.employee_id
7 HAVING COUNT(od.order_id) > 200
8 ORDER BY first_name;
```

	Tect	Expected			Got			
✓	-- Testing with original db	first_name	last_name	total_sales	first_name	last_name	total_sales	✓
		-----	-----	-----	-----	-----	-----	
		Andrew	Fuller	166537.76	Andrew	Fuller	166537.76	
		Janet	Leverling	202812.84	Janet	Leverling	202812.84	
		Laura	Callahan	126862.28	Laura	Callahan	126862.28	
		Margaret	Peacock	232890.85	Margaret	Peacock	232890.85	
		Nancy	Davolio	192107.6	Nancy	Davolio	192107.6	
✓	-- Testing with extra row	first_name	last_name	total_sales	first_name	last_name	total_sales	✓
		-----	-----	-----	-----	-----	-----	
		Dou	Jhon	166537.76	Dou	Jhon	166537.76	
		Janet	Leverling	202812.84	Janet	Leverling	202812.84	
		Laura	Callahan	126862.28	Laura	Callahan	126862.28	
		Margaret	Peacock	232890.85	Margaret	Peacock	232890.85	
		Nancy	Davolio	192107.6	Nancy	Davolio	192107.6	

Пройшов усі тести! ✓

Правильно

Бали за цю відповідь: 1,00/1,00.

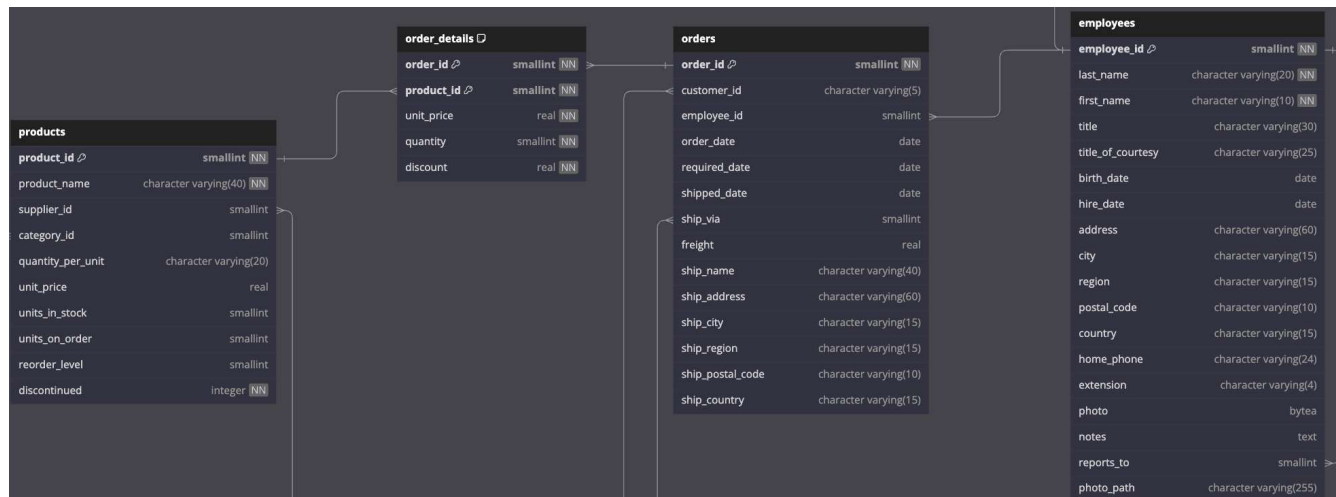
Питання 10

Правильно

Балів 1,00 з 1,00

Write the query which would show the names of **employees** who sell the products of more than 25 suppliers during the year 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**.*

For example:

Тест	Result
-- Testing with original db	<pre> first_name last_name ----- Andrew Fuller Janet Leverling Laura Callahan Margaret Peacock Nancy Davolio </pre>

Відповідь: (penalty regime: 0 %)

```

1 | SELECT e.first_name, e.last_name
2 | FROM employees AS e
3 | JOIN orders AS o ON e.employee_id = o.employee_id
4 | JOIN order_details AS od ON o.order_id = od.order_id
5 | JOIN products AS p ON od.product_id = p.product_id
6 | JOIN suppliers AS s ON p.supplier_id = s.supplier_id
7 | WHERE strftime('%Y', o.order_date) = '2016'
8 | GROUP BY e.employee_id
9 | HAVING COUNT(DISTINCT s.supplier_id) > 25
10 |
11 | ORDER BY first_name;
12 |

```

	Тест	Expected	Got	
✓	-- Testing with original db	<pre> first_name last_name ----- Andrew Fuller Janet Leverling Laura Callahan Margaret Peacock Nancy Davolio </pre>	<pre> first_name last_name ----- Andrew Fuller Janet Leverling Laura Callahan Margaret Peacock Nancy Davolio </pre>	✓
✓	-- Testing with extra row	<pre> first_name last_name ----- Dou Jhon Janet Leverling Laura Callahan Margaret Peacock Nancy Davolio </pre>	<pre> first_name last_name ----- Dou Jhon Janet Leverling Laura Callahan Margaret Peacock Nancy Davolio </pre>	✓

Пройшов усі тести! ✓

Правильно

Бали за цю відповідь: 1,00/1,00.