**Лабораторная работа №13**

**ЗАПРОСЫ НА ОБЪЕДЕНЕНИЕ.**

**ПОИСК МИНИМУМА, МАКСИМУМА, ДИАПАЗОНОВ.**

1. Вывести информацию о мастере, который первым сделал поставку.

Листинг 1 – Вывод информации

USE SUPIR;

SELECT

m.m\_name

FROM masters m

WHERE m.m\_id =

(

SELECT

s.s\_master

FROM supplies s

WHERE s.s\_id =

(

SELECT

MIN(s.s\_id)

FROM supplies s

)

)

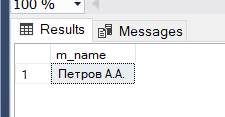


Рис. 1 – Вывод информации

1. Вывести информацию о клиенте(клиентах), который(которые) быстрее всех получил(и) свой заказ.

Листинг 2 – Вывод информации

USE SUPIR;

WITH speed\_of\_delivery AS

(

SELECT

o.o\_id,

c.c\_name AS Client,

DATEDIFF(day, o.o\_date, o.o\_date\_finish) AS delivery\_days,

RANK() OVER

(

ORDER BY

DATEDIFF(day, o.o\_date, o.o\_date\_finish) ASC

) AS rank

FROM orders o

JOIN customers c ON c.c\_id = o.o\_client

WHERE o.o\_status = 'Y'

)

SELECT

sd.o\_id,

sd.Client,

sd.delivery\_days AS [days]

FROM speed\_of\_delivery sd

WHERE rank = 1

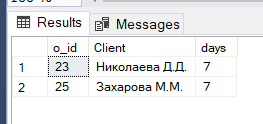


Рис. 2 – Вывод информации

1. Вывести информацию о продукте (продуктах), который(которые) каждый клиент заказывал в свой первый раз.

Листинг 3 – Вывод информации

USE SUPIR;

WITH step\_1 AS

(

SELECT

o.o\_client,

MIN(o.o\_date) AS [o\_date]

FROM orders o

JOIN customers c ON c.c\_id = o.o\_client

GROUP BY o.o\_client

),

step\_2 AS

(

SELECT

o.o\_client,

p.p\_name,

o.o\_date

FROM orders o

JOIN m2m\_products\_orders m2m ON m2m.o\_id = o.o\_id

JOIN products p ON p.p\_id = m2m.p\_id

LEFT JOIN step\_1 s1 ON o.o\_client = s1.o\_client AND o.o\_date = s1.o\_date

)

SELECT

s2.o\_client,

c.c\_name,

STRING\_AGG(s2.p\_name, ', ') AS products,

s2.o\_date

FROM customers c

JOIN step\_2 s2 ON c.c\_id = s2.o\_client

GROUP BY s2.o\_client, c.c\_name, s2.o\_date

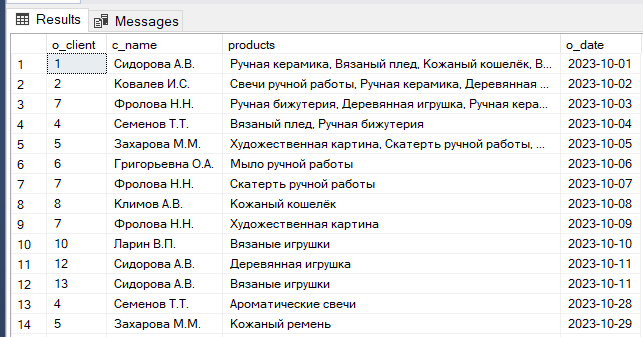


Рис. 3 – Вывод информации

1. Вывести информацию о продукте (продуктах), который(которые) каждый клиент заказывал в последний раз.

Листинг 4 – Вывод информации

USE SUPIR;

WITH step\_1 AS

(

SELECT

o.o\_client,

o.o\_date,

ROW\_NUMBER() OVER (PARTITION BY o.o\_client ORDER BY o.o\_date DESC) AS order\_rank

FROM orders o

JOIN customers c ON c.c\_id = o.o\_client

GROUP BY o.o\_client, o.o\_date

),

step\_2 AS

(

SELECT

s1.o\_client,

s1.o\_date,

s1.order\_rank

FROM step\_1 s1

WHERE s1.order\_rank = 1

)

SELECT

c.c\_name,

s2.o\_client,

STRING\_AGG(p.p\_name, ', '),

s2.o\_date

FROM customers c

JOIN step\_2 s2 ON s2.o\_client = c.c\_id

JOIN orders o ON o.o\_client = c.c\_id

JOIN m2m\_products\_orders m2m ON m2m.o\_id = o.o\_id

JOIN products p ON p.p\_id = m2m.p\_id

GROUP BY c.c\_name, s2.o\_client, s2.o\_date

ORDER BY o\_client

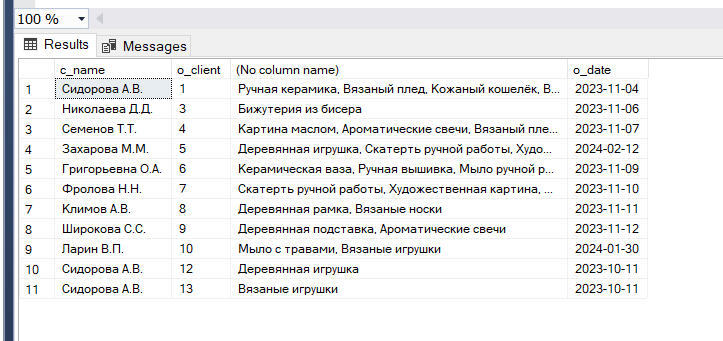


Рис. 4 – Вывод информации