

Лабораторная работа №7. Обработка и визуализация данных. Выполнил Шуплецов Александр Андреевич, НКА бд-03-22.

Найти сводную таблицу с помощью **UNION** со всеми колонками для каждого товара (ПК, лаптоп, принтер), вывести количество строк.

В случае отсутствия колонки – выводим в значение NONE (например, в таблице РС нет колонки “screen”)

Query Query History

```
1 with my_union AS(
2     SELECT pr.type, pr.maker, pr.model, lp.code,
3     CAST(lp.speed AS text),
4     CAST(lp.ram AS text),
5     CAST(lp.hd AS text),
6     CAST(lp.price AS text),
7     CAST(lp.screen AS text),
8     'NONE' AS cd,
9     'NONE' AS printer_type,
10    'NONE' AS color
11    FROM product pr JOIN laptop lp ON (pr.model = lp.model)
12
13    UNION
14
15    SELECT pr.type, pr.maker, pr.model, pc.code,
16    CAST(pc.speed AS text),
17    CAST(pc.ram AS text),
18    CAST(pc.hd AS text),
19    CAST(pc.price AS text),
20    'NONE' AS screen,
21    pc.cd,
22    'NONE' AS printer_type,
23    'NONE' AS color
24    FROM product pr JOIN pc pc ON (pr.model = pc.model)
25
26    UNION
27
28    SELECT pr.type,pr.maker,pr.model,prin.code,
29    'NONE' AS speed,
30    'NONE' AS ram,
31
32    'NONE' AS hd,
33    CAST(prin.price AS text),
34    'NONE' AS screen,
35    'NONE' AS cd,
36    prin.type,
37    prin.color
38    FROM product pr JOIN printer prin ON pr.model = prin.model
39
40    )
41
42    SELECT *,
43    ('Alexandr_Shupletsov time: '||CURRENT_TIMESTAMP) AS student_with_time
44    FROM my_union
45    ORDER BY my_union.type
```

Data output											Messages		Notifications								
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											text	text	text								
	type	maker	model	code	speed	ram	hd	price	screen	cd											
character varying (50)											character varying (10)										
1	Laptop	A	1298		1 350	32	4	700.0000	11	NONE		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
2	Laptop	A	1752		5 750	128	10	1150.0000	14	NONE		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
3	Laptop	A	1298		6 450	64	10	950.0000	12	NONE		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
4	Laptop	C	1321		2 500	64	8	970.0000	12	NONE		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
5	Laptop	A	1298		4 600	64	10	1050.0000	15	NONE		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
6	Laptop	B	1750		3 750	128	12	1200.0000	14	NONE		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
7	PC	A	1232		8 450	64	8	350.0000	NONE	24x		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
8	PC	A	1232		9 450	32	10	350.0000	NONE	24x		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
9	PC	E	1260		10 500	32	10	350.0000	NONE	12x		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
10	PC	A	1232		1 500	64	5	600.0000	NONE	12x		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
11	PC	B	1121		2 750	128	14	850.0000	NONE	40x		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
12	PC	A	1233		11 900	128	40	980.0000	NONE	40x		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
13	PC	A	1233		12 800	128	20	970.0000	NONE	50x		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
14	PC	B	1121		4 600	128	14	850.0000	NONE	40x		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
15	PC	A	1233		3 500	64	5	600.0000	NONE	12x		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
16	PC	A	1233		6 750	128	20	950.0000	NONE	50x		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
17	PC	B	1121		5 600	128	8	850.0000	NONE	40x		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
18	PC	A	1232		7 500	32	10	400.0000	NONE	12x		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
19	Printer	A	1401		4 NONE	NONE	NONE	150.0000	NONE	NONE		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
20	Printer	D	1288		6 NONE	NONE	NONE	400.0000	NONE	NONE		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
21	Printer	A	1276		1 NONE	NONE	NONE	400.0000	NONE	NONE		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
22	Printer	A	1408		5 NONE	NONE	NONE	270.0000	NONE	NONE		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
23	Printer	E	1434		3 NONE	NONE	NONE	290.0000	NONE	NONE		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									
24	Printer	D	1433		2 NONE	NONE	NONE	270.0000	NONE	NONE		Alexandr_Shupletsov time: 2022-12-24 17:05:22.474289+03									