



-----:) Queiries Answer (:-----

pgAdmin 4

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Dashboard Properties SQL Statistics Dependencies Dependents Processes 202101215/202101215@PgSQLServer*

202101215/202101215@PgSQLServer

Query Query History

```
1 ----- Quries -----
2 set search_path to Tiles_Industry_Database_Project;
3
4 ---q1.What is the average price of tiles in a particular region or country?
5
6 select city,avg(prod_rate) as avg_price from Branch natural join Product natural join Order_Detail
7 group by city ;
8
```

Data Output Messages Notifications

	city	avg_price
	character varying (30)	double precision
1	Jaipur	668.884615384615
2	Anand	456.142857142857
3	Patna	689
4	Surendranagar	409.375
5	Sydney	490.777777777778
6	Valsad	537.333333333333
7	Hyderabad	523
8	Udaipur	442.1
9	Indore	387
10	Bangalore	597
11	Ottawa	421
12	Newyork	431.555555555556
13	Mumbai	532.88

Total rows: 33 of 33 Query complete 00:00:00.108 Ln 8, Col 1

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Dashboard Properties SQL Statistics Dependencies Dependents Processes 202101215/202101215@PgSQLServer*

202101215/202101215@PgSQLServer

Query Query History

```
1 set search_path to Tiles_Industry_Database_Project;
2
3 ----- q1
4 select city, avg(prod_rate) as avg_prod_price
5 from branch natural join product natural join order_detail
6 group by city;
7
8 ----- q2
9 select prod_id,prod_name,category,sum(prod_qty) from product natural join order_detail natural join order_table
10 where ord_date > '2022-01-01' and ord_date < '2022-04-30' group by prod_id order by sum(prod_qty) desc limit 1;
11
12 ----- q3
13
```

Data Output Messages Notifications

	prod_id	prod_name	category	sum
	[PK] character varying (20)	character varying (40)	character varying (30)	bigint
1	P035	Geometric Tile	Geometric	3677

Total rows: 1 of 1 Query complete 00:00:00.232 Ln 11, Col 1

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202101215/202101215@PgSQLServer*

Query

```
4 select city, avg(prod_rate) as avg_prod_price
5 from branch natural join product natural join order_detail
6 group by city;
7
8 ----- q2
9 select prod_id, prod_name, category, sum(prod_qty) from product natural join order_detail natural join order_table
10 where ord_date > '2022-01-01' and ord_date < '2022-04-30' group by prod_id order by sum(prod_qty) desc limit 1;
11
12 ----- q3
13 select category, sum(prod_qty) from product
14 natural join order_detail natural join order_table natural join customer group by category order by sum(prod_qty) asc limit 1;
15
```

Data Output

category	sum
character varying (30)	bigint
1 Terracotta	1349

Total rows: 1 of 1 Query complete 00:00:00.068 Ln 15, Col 1

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202101215/202101215@PgSQLServer*

Query

```
10 where ord_date > '2022-01-01' and ord_date < '2022-04-30' group by prod_id order by sum(prod_qty) desc limit 1;
11
12 ----- q3
13 select category, sum(prod_qty) from product
14 natural join order_detail natural join order_table natural join customer group by category order by sum(prod_qty) asc limit 1;
15
16 ----- q4
17 select category, sum(prod_qty) from product
18 natural join order_detail natural join order_table natural join customer where ord_date > '2022-04-01'
19 group by category
20 order by sum(prod_qty) desc limit 5;
21
```

Data Output

category	sum
character varying (30)	bigint
1 Floor Tiles	23441
2 Flooring	18364
3 Floor Tile	13304
4 Wall Tiles	12789
5 Backsplash Tile	9460

Total rows: 5 of 5 Query complete 00:00:00.091 Ln 21, Col 1

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Dashboard Properties SQL Statistics Dependencies Dependents Processes 202101215/202101215@PgSQLServer*

Query Query History

```
17 select category,sum(prod_qty) from product
18 natural join order_detail natural join order_table natural join customer where ord_date > '2022-04-01'
19 group by category
20 order by sum(prod_qty) desc limit 5;
21
22
23 ----- q5
24 select * from product;
25 select city,state,pincode,sum(prod_qty) as total_qty from customer
26 natural join order_table natural join order_detail natural join product
27 where category='Floor Tiles' group by city,state,pincode order by sum(prod_qty) desc;
28
29
```

Data Output Messages Notifications

	city	state	pincode	total_qty
	character varying (30)	character varying (30)	character varying (30)	bigint
1	Bengaluru	Karnataka	560035	4853
2	Jaipur	Rajasthan	302017	2296
3	Hyderabad	Telangana	500033	2050
4	Delhi	Delhi	110092	2049
5	Chennai	Tamil Nadu	600041	2024
6	Chennai	Tamil Nadu	600020	1935
7	Kolkata	West Bengal	700106	1914
8	Ahmedabad	Gujarat	380054	1861
9	Kerala	Kerala	682002	1710
..				

Total rows: 45 of 45 Query complete 00:00:00.105 Ln 27, Col 85

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Dashboard Properties SQL Statistics Dependencies Dependents Processes 202101215/202101215@PgSQLServer*

Query Query History

```
24 select * from order_table;
25 select city,state,pincode,sum(prod_qty) as total_qty from customer
26 natural join order_table natural join order_detail natural join product
27 where category='Floor Tiles' group by city,state,pincode order by sum(prod_qty) desc;
28
29
30 ----- q6
31 select prod_id,prod_name,category,sum(prod_qty) as total_qty from product
32 natural join order_detail natural join order_table
33 where purpose='Kitchen tile purchase' group by prod_id order by sum(prod_qty) desc;
34
35
```

Data Output Messages Notifications

	prod_id	prod_name	category	total_qty
	[PK] character varying (20)	character varying (40)	character varying (30)	bigint
1	P002	Tile B	Flooring	860
2	P031	Hexagon Tile	Hexagon	404

Total rows: 2 of 2 Query complete 00:00:00.098 Ln 33, Col 1

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Dashboard Properties SQL Statistics Dependencies Dependents Processes 202101215/202101215@PgSQLServer*

Query Query History

```
25 select prod_id,prod_name,category,sum(prod_qty) as total_qty from product
26 natural join order_table natural join order_detail natural join product
27 where category='Floor Tiles' group by city,state,pincode order by sum(prod_qty) desc;
28
29 ----- q6
30 select prod_id,prod_name,category,sum(prod_qty) as total_qty from product
31 natural join order_detail natural join order_table
32 where purpose='Kitchen tile purchase' group by prod_id order by sum(prod_qty) desc;
33
34 ----- q7
35 select prod_id,prod_name,size,category,sum(prod_qty) as total_qty from product
36 natural join order_detail where category='Floor Tile' group by prod_id order by total_qty desc;
37
```

Data Output Messages Notifications

	prod_id [PK] character varying (20)	prod_name character varying (40)	size character varying (20)	category character varying (30)	total_qty bigint
1	P038	Cement Geometric Tile	8x8	Floor Tile	3425
2	P076	Porcelain Wood Tile	8x36	Floor Tile	3369
3	P036	Ceramic Wood Plank TL	6x24	Floor Tile	2866
4	P083	Quartzite Tile	12x24	Floor Tile	2398
5	P096	Porcelain Hexagon Tile	8x8	Floor Tile	2159
6	P079	Travertine Tile	16x16	Floor Tile	2088
7	P074	Slate Stone Tile	12x12	Floor Tile	2066
8	P081	Patterned Cement Tile	8x8	Floor Tile	1556
9	P093	Ceramic Encaustic Tile	8x8	Floor Tile	1526
10	P086	Cement Encaustic Tile	8x8	Floor Tile	1468

Total rows: 12 of 12 Query complete 00:00:00.138 Ln 36, Col 96

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Dashboard Properties SQL Statistics Dependencies Dependents Processes 202101215/202101215@PgSQLServer*

Query Query History

```
38 select prod_id,prod_name,category,sum(prod_qty) as total_qty from product
39 natural join order_detail natural join order_table
40 where purpose='Kitchen tile purchase' group by prod_id order by sum(prod_qty) desc;
41
42 ----- q7
43 select prod_id,prod_name,size,category,sum(prod_qty) as total_qty from product
44 natural join order_detail where category='Floor Tile' group by prod_id order by total_qty desc;
45
46 ----- q8
47 select prod_id,prod_name,category,(avg(prod_rate)-saleprice) as profit_per_tile from product
48 natural join order_detail group by prod_id having(avg(prod_rate)>saleprice) order by profit_per_tile desc limit 5;
49
50 ----- q9
```

Data Output Messages Notifications

	prod_id [PK] character varying (20)	prod_name character varying (40)	category character varying (30)	profit_per_tile double precision
1	P096	Porcelain Hexagon Tile	Floor Tile	796.333333333333
2	P060	Porcelain Fish Scale Tile	Wall Tile	772.75
3	P077	Geometric Mosaic Tile	Wall Tile	767.25
4	P076	Porcelain Wood Tile	Floor Tile	747.75
5	P025	Glossy White Tile	Glossy	731.5

Total rows: 5 of 5 Query complete 00:00:00.096 Ln 42, Col 1

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Dashboard Properties SQL Statistics Dependencies Dependents Processes 202101215/202101215@PgSQLServer*

Query Query History

```
34 ----- q7
35 select prod_id,prod_name,size,category,sum(prod_qty) as total_qty from product
36 natural join order_detail where category='Floor Tile' group by prod_id order by total_qty desc;
37
38
39 ----- q8
40 select prod_id,prod_name,category,(avg(prod_rate)-saleprice) as profit_per_tile from product
41 natural join order_detail group by prod_id having(avg(prod_rate)>saleprice) order by profit_per_tile desc limit 5;
42
43 ----- q9
44 select rm_name,count(prod_id) as total_product_per_rawmat from raw_material natural join used_raw_material
45 group by rm_name order by count(prod_id) desc limit 3;
46
47
```

Data Output Messages Notifications

rm_name	total_product_per_rawmat
Granite	64
Marble	34
Copper	31

Total rows: 3 of 3 Query complete 00:00:00.115 Ln 45, Col 55

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Dashboard Properties SQL Statistics Dependencies Dependents Processes 202101215/202101215@PgSQLServer*

Query Query History

```
43 ----- q9
44 select rm_name,count(prod_id) as total_product_per_rawmat from raw_material natural join used_raw_material
45 group by rm_name order by count(prod_id) desc limit 3;
46
47 ----- q10
48 select rm_name,sum(rm_qty) from raw_material natural join purchase_detail
49 natural join raw_mat_bill where rm_bill_date>'2022-10-01' group by rm_name;
50
```

Data Output Messages Notifications

rm_name	sum
Water	2522
Coal	2512
Limestone	1670
Cement	425
Sand	2632
Glass	1633
Copper	2494
Slate	660
Granite	3401
Sandstone	1029
Marble	2203
Wood	2291
Ceramic	789

Total rows: 13 of 13 Query complete 00:00:00.098 Ln 49, Col 76

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Dashboard Properties SQL Statistics Dependencies Dependents Processes 202101215/202101215@PgSQLServer*

Query Query History

```

43 ----- q9
44 select rm_name,count(prod_id) as total_product_per_rawmat from raw_material natural join used_raw_material
45 group by rm_name order by count(prod_id) desc limit 3;
46
47 ----- q10
48 select rm_name,sum(rm_qty) from raw_material natural join purchase_detail
49 natural join raw_mat_bill where rm_bill_date>'2022-10-01' group by rm_name;
50
51 ----- q11
52 select sup_no,sup_name,city,rm_name,sum(rm_qty) as total_rawmat from supplier
53 natural join raw_mat_bill natural join purchase_detail natural join raw_material
54 group by sup_no,rm_name order by sum(rm_qty) desc limit 1;
55

```

Data Output Messages Notifications

	sup_no integer	sup_name character varying (30)	city character varying (30)	rm_name character varying (40)	total_rawmat bigint
1	21	Jorge Rodriguez	Mexico City	Slate	9524

Total rows: 1 of 1 Query complete 00:00:00.066 Ln 54, Col 59

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Dashboard Properties SQL Statistics Dependencies Dependents Processes 202101215/202101215@PgSQLServer*

Query Query History

```

64 ----- q10
65 select rm_name, sum(rm_qty) as total_rm_qty
66 from raw_mat_bill natural join purchase_detail natural join raw_material
67 where rm_bill_date >= '2022-10-01'
68 group by rm_name;
69
70 ----- q11
71 select sup_no, sup_name, rm_name, sum(rm_qty) as total_rm_qty
72 from supplier natural join raw_mat_bill natural join purchase_detail natural join raw_material
73 group by sup_no, rm_name
74 order by total_rm_qty desc limit 1;
75
76 ----- q12
77 select branch_no,branch_name,city,sum((prod_rate-saleprice)*prod_qty) as total_profit from branch natural join product na
78 group by branch_no order by total_profit desc;
79

```

Data Output Messages Notifications

	branch_no [PK] integer	branch_name character varying (20)	city character varying (30)	total_profit double precision
1	38	Sapphire	Jaipur	5674599
2	40	City Centre	Bangalore	5023690
3	39	Green Acres	Morbi	4876884
4	10	Opulent	Bangalore	4374905
5	35	River Bank	Kolkata	3752918
6	37	Skyline	Raipur	3647006
7	41	Emerald	Morbi	3617050

Total rows: 48 of 48 Query complete 00:00:00.111 Ln 79, Col 1

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Dashboard Properties SQL Statistics Dependencies Dependents Processes 202101215/202101215@PgSQLServer*

202101215/202101215@PgSQLServer

Query Query History

```

79
80
81 ----- q13
82 select e.emp_id,e.emp_name,e.salary,r1.avg_salary,r1.dep_name,r1.branch_no from
83 (select dep_no,dep_name,branch_no,avg(salary) as avg_salary from department natural join employee
84 group by dep_no) as r1 natural join employee as e where e.salary>r1.avg_salary;

```

Data Output Messages Notifications

emp_id	emp_name	salary	avg_salary	dep_name	branch_no
1	John Doe	75000	60250.000000000000	Production	2
2	Jane Smith	82000	66000.000000000000	Sales	2
3	Samantha Lee	90000	63000.000000000000	Finance	2
4	Michael Chen	95000	62500.000000000000	Warehouse	2
5	David Kim	85000	65250.000000000000	Marketing	2
6	Julia Martinez	70000	52500.000000000000	Shipping	2
7	Alex Wong	80000	60250.000000000000	Production	2
8	Jessica Nguyen	65000	55000.000000000000	Product Design	2
9	Ryan Smith	88000	65250.000000000000	Marketing	2
10	Christina Lee	71000	55500.000000000000	Testing	2
11	Ashley Davis	92000	66000.000000000000	Sales	2
12	Jonathan Perez	98000	69000.000000000000	Packaging	2
13	Rachel Kim	67000	63000.000000000000	Finance	2
14	Brandon Nguyen	60000	49000.000000000000	Packaging	22

Total rows: 68 of 68 Query complete 00:00:00.103 Ln 83, Col 80

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Dashboard Properties SQL Statistics Dependencies Dependents Processes 202101215/202101215@PgSQLServer*

202101215/202101215@PgSQLServer

Query Query History

```

79
80 ----- q13
81 select e.emp_id,e.emp_name,e.salary,r1.avg_salary,r1.dep_name,r1.branch_no from
82 (select dep_no,dep_name,branch_no,avg(salary) as avg_salary from department natural join employee
83 group by dep_no) as r1 natural join employee as e where e.salary>r1.avg_salary;
84
85 ----- q14
86
87 select b.branch_no,b.branch_name,count(e.emp_id) as total_no_of_employee,sum(e.salary) as total_employee_cost from emplo
88 join department d on e.dep_no=d.dep_no join branch b on d.branch_no=b.branch_no
89 group by b.branch_no;
90

```

Data Output Messages Notifications

branch_no	branch_name	total_no_of_employee	total_employee_cost
1	4 Royal	20	1087000
2	34 Green Hills	3	110000
3	51 Jade	1	35000
4	41 Golden	1	20000
5	10 Opulent	8	381500
6	9 Emerald	10	457098
7	7 Regal	9	429000
8	6 Pristine	15	778000
9	12 Majestic	7	425000

Total rows: 19 of 19 Query complete 00:00:00.083 Ln 89, Col 22

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Dashboard Properties SQL Statistics Dependencies Dependents Processes queries.sql

202101215/202101215@PgSQLServer

Query Query History

```
90
91 ----- q15
92
93 select r1.branch_no,r1.branch_name,r.rm_id,r.rm_name,r1.total_rm_stock from raw_material r join
94 (select branch_no,branch_name,rm_stc_id,sum(rm_stc_qty) as total_rm_stock from branch
95 natural join raw_mat_stock natural join raw_material)
96 group by rm_stc_id,branch_no order by branch_no ) as r1 on r1.rm_stc_id=r.rm_id;
97
98
```

Data Output Messages Notifications

	branch_no	branch_name	rm_id	rm_name	total_rm_stock
	integer	character varying (20)	character varying (20)	character varying (40)	bigint
1	16	Supreme	RM100	Coal	5850
2	16	Supreme	RM101	Water	3900
3	16	Supreme	RM102	Slate	11804
4	16	Supreme	RM103	Sandstone	6500
5	16	Supreme	RM104	Ceramic	16380
6	18	Cosmic	RM105	Cement	5525
7	18	Cosmic	RM106	Sand	8892
8	18	Cosmic	RM107	Wood	4550
9	18	Cosmic	RM108	Glass	5525
10	18	Cosmic	RM109	Copper	6825
11	18	Cosmic	RM110	Marble	4550
12	18	Cosmic	RM111	Granite	5850

Total rows: 236 of 236 Query complete 00:00:00.085 Ln 95, Col 55

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Query Query History

```
94 (select branch_no,branch_name,rm_stc_id,sum(rm_stc_qty) as total_rm_stock from branch
95 natural join raw_mat_stock natural join raw_material)
96 group by rm_stc_id,branch_no order by branch_no ) as r1 on r1.rm_stc_id=r.rm_id;
97
98 ----- q16
99
100 select cus_no,cus_name,sum(prod_qty*prod_rate) as total_amount from customer natural join order_table
101 natural join order_detail
102 where ord_date>='2022-01-01' and ord_date<='2022-12-31'
103 group by cus_no order by total_amount desc;
104
```

Data Output Messages Notifications

	cus_no	cus_name	total_amount
	[PK] integer	character varying (30)	double precision
1	1	Anjali Sharma	2824862
2	11	Swati Iyer	2786962
3	22	Arun Singh	2774417
4	45	Kavya Gupta	2755304
5	33	Vijay Kumar	2636812
6	8	Gaurav Verma	2540938
7	3	Priya Chauhan	2517986
8	25	Riya Menon	2516910
9	35	Niharika Sharma	2380831
10	43	Swati Singh	2329710
11	14	Alok Kumar	2309442

Total rows: 100 of 100 Query complete 00:00:00.228 Ln 104, Col 1

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202101215/202101215@PgSQLServer

No limit

Query Query History

```
99
100 select cus_no,cus_name,sum(prod_qty*prod_rate) as total_amount from customer natural join order_table
101 natural join order_detail
102 where ord_date='2022-01-01' and ord_date<='2022-12-31'
103 group by cus_no order by total_amount desc;
104
105 ----- q17
106
107 select category,count(prod_stc_id) as total_type_of_tiles ,sum(prod_stc_qty) as total_no_of_tiles from product
108 join prod_stock on prod_stc_id=prod_id
109 group by category order by total_no_of_tiles desc ;|
110
111
```

Data Output Messages Notifications

	category	total_type_of_tiles	total_no_of_tiles
	character varying (30)	bigint	bigint
1	Flooring	30	10825
2	Floor Tile	24	8130
3	Floor Tiles	40	7705
4	Backsplash Tile	20	7599
5	Wall Tile	20	5720
6	Bathroom Fixtures	18	5390
7	Wall Tiles	22	4285
8	Flooring2	3	2755
9	Marble	3	1520

Total rows: 26 of 26 Query complete 00:00:00.093 Ln 109, Col 52

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202101215/202101215@PgSQLServer

No limit

Query Query History

```
111
112 ----- q18
113
114 select bill_date,sum(prod_qty*prod_rate) as total_selling from order_detail natural join order_table natural join order_b
115 group by bill_date order by total_selling desc limit 10;
116
117
```

Data Output Messages Notifications

	bill_date	total_selling
	date	double precision
1	2022-10-26	1208882
2	2022-08-04	1192914
3	2022-06-07	1146100
4	2022-10-25	1142224
5	2022-08-01	1134773
6	2022-06-13	1082051
7	2022-10-17	1067797
8	2022-07-07	1064515
9	2022-09-25	1053812
10	2022-07-05	1046412

Total rows: 10 of 10 Query complete 00:00:00.141 Ln 116, Col 1

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Query Query History

```

111
112 ----- q18
113
114 select bill_date,sum(prod_qty*prod_rate) as total_selling from order_detail natural join order_table natural join order_b
115 group by bill_date order by total_selling desc limit 10;
116
117 ----- q19
118
119
120 select city,count(cus_no) as total_no_of_customer from customer
121 group by city order by total_no_of_customer desc limit 5;

```

Data Output Messages Notifications

city	total_no_of_customer
1 Mumbai	15
2 Ahmedabad	11
3 Bengaluru	10
4 Kolkata	7
5 Hyderabad	6

Total rows: 5 of 5 Query complete 00:00:00.103 Ln 121, Col 58

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Dashboard Properties SQL Statistics Dependencies Dependents Processes queries.sql*

202101215/202101215@PgSQLServer

Query Query History

```

115 group by bill_date order by total_selling desc limit 10;
116
117 ----- q19
118
119
120 select city,count(cus_no) as total_no_of_customer from customer
121 group by city order by total_no_of_customer desc limit 5;
122
123 ----- q20
124
125 select e.dep_no,e.emp_id,e.emp_name,e.salary from employee e natural join
126 (select dep_no,max(salary) as max_salary_per_dep from employee natural join department group by dep_no ) as r1
127 where r1.max_salary_per_dep=e.salary group by e.emp_id order by e.dep_no asc;
128

```

Data Output Messages Notifications

dep_no	emp_id	emp_name	salary
1	7 E1157	Michael Clark	15000
2	8 E1164	Ashley Perez	20000
3	9 E1159	Christopher Martinez	32000
4	10 E1153	John Smith	25000
5	11 E1009	Alex Wong	80000
6	12 E1014	Ashley Davis	92000
7	13 E1011	Ryan Smith	88000
8	14 E1004	Samantha Lee	80000

Total rows: 91 of 91 Query complete 00:00:00.120 Ln 128, Col 1