

Insert Queries

The screenshot shows the pgAdmin 4 interface. The left sidebar is the Object Explorer, and the main area is a SQL editor window titled 'G34/postgres@PostgreSQL 16*'. The SQL query is:

```
5
6 select * from Manufacturer;
```

The results are displayed in a Data Output tab:

	manufacturerid	name	address
1	M001	Schlumberger	Mumbai
2	M002	Halliburton	Mumbai
3	M003	Baker Hughes	Mumbai
4	M004	Cameron International	Pune
5	M005	Oil Country Tubular Limited (OCTL)	Mumbai
6	M006	Kirloskar Brothers Limited	Pune
7	M007	L&T Hydrocarbon Engineering	Mumbai
8	M008	Technip Energies	Mumbai
9	M009	Jindal Steel and Power Limited	New Delhi
10	M010	Hindustan Aeronautics Limited (HAL)	Bangalore
11	M011	OIL (Oil India Limited)	Dibrugarh
12	M012	Sundaram Clayton	Chennai
13	M013	Aker Solutions	Mumbai
14	M014	Bharat Heavy Electricals Limited (BHEL)	Delhi

Total rows: 80 of 80 Query complete 00:00:00.398 Ln 12, Col 1

The screenshot shows the pgAdmin 4 interface. The left sidebar is the Object Explorer, and the main area is a SQL editor window titled 'G34/postgres@PostgreSQL 16*'. The SQL query is:

```
5
6 select * from Equipment;
```

The results are displayed in a Data Output tab:

	equipmentid	name	type	manufacturerid	cost
1	E001	Land Drilling Rig	Drilling Equipment	M025	5000000
2	E002	Offshore Drilling Rig	Drilling Equipment	M032	25000000
3	E003	Coiled Tubing Unit	Drilling Equipment	M018	8000000
4	E004	Drill Pipe	Drilling Equipment	M055	150000
5	E005	Rotary Table	Drilling Equipment	M042	200000
6	E006	Mud Pump	Drilling Equipment	M013	300000
7	E007	Blowout Preventer	Safety Equipment	M067	1200000
8	E008	Drilling Fluid System	Drilling Equipment	M040	900000
9	E009	Wireline Unit	Logging Equipment	M022	700000
10	E010	Cementing Unit	Cementing Equipment	M077	4000000
11	E011	Pressure Control Equipment	Safety Equipment	M005	600000
12	E012	Completion Equipment	Completion Equipment	M053	3500000
13	E013	Subsea Equipment	Subsea Equipment	M074	10000000
14	E014	Top Drive System	Rig Equipment		
15	Fn15	Drill Bit Maintenance Tools	Maintenance Equipment		

Successfully run. Total query runtime: 118 msec. 89 rows affected. Total rows: 89 of 89 Query complete 00:00:00.118 Ln 6, Col 24

pgAdmin 4

File Object Tools Help

Object Explorer

- > Lasts
- > Catalogs
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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query Query History

```
5
6   select * from Driller;
7
8
9
10
11
```

Data Output Messages Notifications

SQL

	drillerId	name	certification	equipmentId
1	D001	Arjun Sharma	API-123456	E018
2	D002	Ravi Patel	ISO-9001:2020	E022
3	D003	Sanjay Gupta	OSHA-123456	E006
4	D004	Neha Kumari	ISO-13485	E042
5	D005	Amit Verma	ASME-7899012	E012
6	D006	Rahul Desai	NACE-987654	E030
7	D007	Priya Singh	API-246810	E038
8	D008	Vikram Rao	ISO-14001:2015	E024
9	D009	Sunil Bansal	API-159753	E054
10	D010	Kiran Joshi	EN-ISO-9000	E066
11	D011	Deepak Nair	ISO-50001	E072
12	D012	Meera Shah	ASNTTC-1A	E070
13	D013	Suresh Yadav	ISO-45001	E048
14	D014	Rohit Kumar	ISO/IEC-27001	
15	D015	Prerna Rani	AISC-141	

Successfully run. Total query runtime: 108 msec. 80 rows affected.

Total rows: 80 of 80 Query complete 00:00:00.108

Ln 6, Col 22

pgAdmin 4

File Object Tools Help

Object Explorer

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query Query History

```
5
6   select * from DrillerContact;
7
8
9
10
11
```

Data Output Messages Notifications

SQL

	drillerId	contact
1	D007	9876543210
2	D024	9123456780
3	D015	9988776655
4	D036	8899776655
5	D059	9988443322
6	D013	9988112233
7	D042	9888776655
8	D033	9900887766
9	D011	9911223344
10	D022	9933445566
11	D049	9944556677
12	D066	9955667788
13	D004	9966778899
14	D021	9988990011
15	D068	9977885566

Total rows: 112 of 112 Query complete 00:00:00.124

Ln 6, Col 29

pgAdmin 4

File Object Tools Help

Object Explorer Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16*

Query History

```
5
6   select * from RigTechnician;
7
8
9
10
11
```

Data Output Messages Notifications

	rtid	name	certification	equipmentid
1	RT001	Rajesh Kumar	API 16A Certified	E014
2	RT002	Amit Verma	ISO 9001 Certified	E023
3	RT003	Deepak Sharma	API 7K Certified	E012
4	RT004	Nitin Yadav	ISO 14001 Certified	E030
5	RT005	Suresh Patel	API 6A Certified	E028
6	RT006	Karan Singh	ISO 45001 Certified	E007
7	RT007	Vikram Joshi	API 16A Certified	E034
8	RT008	Gaurav Mehta	ISO 9001 Certified	E021
9	RT009	Rahul Gupta	API 7K Certified	E015
10	RT010	Anil Saini	ISO 14001 Certified	E009
11	RT011	Ravi Nair	API 6A Certified	E027
12	RT012	Manoj Bansal	ISO 45001 Certified	E035
13	RT013	Sandeep Kumar	API 16A Certified	E022
14	RT014	Pankaj Sharma	ISO 9001 Certified	
15	RT015	Kartik Mishra	API 7K Certified	

Total rows: 80 of 80 Query complete 00:00:00.128

Successfully run. Total query runtime: 128 msec. 80 rows affected. X

Ln 6, Col 28

pgAdmin 4

File Object Tools Help

Object Explorer Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16

Query History

```
5
6   select * from RtContact;
7
8
9
10
11
```

Data Output Messages Notifications

	rtid	contact
1	RT042	9981234567
2	RT018	9876543212
3	RT007	9123456781
4	RT029	9987123456
5	RT004	9823123456
6	RT022	9845612345
7	RT015	9912312345
8	RT036	9876541234
9	RT025	9945678901
10	RT001	9123409876
11	RT010	9812345670
12	RT028	9812311234
13	RT009	9987654321
14	RT033	9876548901
15	RT005	9965432108

Total rows: 114 of 114 Query complete 00:00:00.148

Successfully run. Total query runtime: 148 msec. 114 rows affected. X

Ln 6, Col 24

11:31 PM 10/27/2024

pgAdmin 4

File Object Tools Help

Object Explorer Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16*

Query History

```
5
6   select * from ManufacturerContact;
7
8
9
10
11
```

Data Output Messages Notifications

	manufacturerId	contact
1	M012	9876543210
2	M019	8765432109
3	M045	1234567890
4	M023	1122334455
5	M005	9988776655
6	M029	1234567891
7	M071	1234509876
8	M062	5432167890
9	M037	9876543212
10	M059	4567890123
11	M018	6543210987
12	M010	8765432198
13	M068	2345678901
14	M006	7654321098
15	M052	7890123456

Total rows: 116 of 116 Query complete 00:00:00.093

Successfully run. Total query runtime: 93 msec. 116 rows affected. X

Ln 6, Col 34

pgAdmin 4

File Object Tools Help

Object Explorer Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16*

Query History

```
5
6   select * from well;
7
8
9
10
11
```

Data Output Messages Notifications

	wellid	type	depth	status	drillerId	
1	W001	Exploration	—	1500	Active	D024
2	W002	Production	—	2000	Active	D012
3	W003	Injection	—	1800	Active	D067
4	W004	Exploration	—	1200	Inactive	D036
5	W005	Production	—	1600	Active	D045
6	W006	Injection	—	1400	Active	D005
7	W007	Exploration	—	1300	Inactive	D019
8	W008	Production	—	1900	Active	D078
9	W009	Injection	—	1700	Inactive	D008
10	W010	Exploration	—	1550	Active	D051
11	W011	Production	—	2050	Active	D014
12	W012	Injection	—	1650	Inactive	D060
13	W013	Exploration	—	1400	Active	D073
14	W014	Production	—	1750	Active	D021
15	W015	Injection	—	1850	Inactive	D068

Total rows: 150 of 150 Query complete 00:00:00.115

Successfully run. Total query runtime: 115 msec. 150 rows affected. X

Ln 6, Col 19

pgAdmin 4

File Object Tools Help

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query History

```
5
6   select * from Maintenance;
7
8
9
10
11
```

Data Output Messages Notifications

	maintenanceid	schedule_date	type	rtid	cost	equipmentid
1	M001	2025-01-10	Routine Check	RT015	15000	E010
2	M002	2025-03-05	Emergency Repair	RT072	20000	E025
3	M003	2025-01-15	Routine Check	RT040	18000	E005
4	M004	2025-04-15	Inspection	RT013	16000	E045
5	M005	2025-02-20	Repair	RT067	17000	E078
6	M006	2025-03-10	Maintenance	RT030	19000	E015
7	M007	2025-01-25	Routine Check	RT050	17500	E032
8	M008	2025-02-08	Inspection	RT006	15500	E022
9	M009	2025-04-01	Repair	RT070	22000	E018
10	M010	2025-02-25	Routine Check	RT052	16500	E063
11	M011	2025-03-22	Emergency Repair	RT005	24000	E080
12	M012	2025-01-12	Maintenance	RT017	18000	E007
13	M013	2025-02-05	Inspection	RT044	16000	E036
14	M014	2025-03-18	Repair	RT025	21000	E055
15	M015	2025-01-30	Routine Check	RT009	19000	E028

Total rows: 100 of 100 Query complete 00:00:00.176

Successfully run. Total query runtime: 176 msec. 100 rows affected.

Ln 6, Col 26

11:32 PM 10/27/2024

pgAdmin 4

File Object Tools Help

Object Explorer

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query History

```
5
6   select * from MudLogger;
7
8
9
10
11
```

Data Output Messages Notifications

	mlid	name	certification	wellid
1	ML001	Rahul Singh	ISO-9001-2020	W107
2	ML002	Anjali Sharma	API-123456	W136
3	ML003	Vikram Patel	NACE-987654	W114
4	ML004	Pooja Gupta	ISO/IEC-27001	W119
5	ML005	Suresh Kumar	API-246810	W128
6	ML006	Meena Rani	OSHA-123456	W106
7	ML007	Ajay Mehta	ISO-14001:2015	W048
8	ML008	Ravi Yadav	API-159753	W141
9	ML009	Kiran Verma	EN-ISO-14001	W123
10	ML010	Sunita Joshi	ISO-50001:2018	W112
11	ML011	Deepak Thakur	ISO-13485	W003
12	ML012	Sonia Choudhary	ASME-B31.3	W101
13	ML013	Amit Agarwal	API-609	W097
14	ML014	Sakshi Jain	ISO-27001:2013	W142
15	ML015	Tanish Sinha	ISO-9001-2015	W125

Total rows: 80 of 80 Query complete 00:00:00.112

Successfully run. Total query runtime: 112 msec. 80 rows affected.

Ln 6, Col 24

11:32 PM 10/27/2024

pgAdmin 4

File Object Tools Help

Object Explorer Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16*

Query History

```
5
6   select * from MlContact;
7
8
9
10
11
```

Data Output Messages Notifications

	mid	contact
1	ML010	9876543210
2	ML077	8765432109
3	ML025	7654321098
4	ML040	6543210987
5	ML060	5432109876
6	ML014	4321098765
7	ML030	3210987654
8	ML003	2109876543
9	ML079	1098765432
10	ML068	9876543210
11	ML045	8765432109
12	ML001	7654321098
13	ML023	6543210987
14	ML057	5432109876
15	MI 005	4321098765

Total rows: 116 of 116 Query complete 00:00:00.099

Successfully run. Total query runtime: 99 msec. 116 rows affected. X

Ln 6, Col 24

pgAdmin 4

File Object Tools Help

Object Explorer Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16

Query History

```
5
6   select * from Metrics ;
7
8
9
10
11
```

Data Output Messages Notifications

	metricsid	mid	measurement	accuracy
1	M001	ML015	123.45	0.95
2	M002	ML073	98.76	0.98
3	M003	ML001	150.00	0.90
4	M004	ML045	200.34	0.93
5	M005	ML029	75.12	0.97
6	M006	ML060	44.56	0.88
7	M007	ML022	120.98	0.92
8	M008	ML050	85.25	0.91
9	M009	ML080	150.67	0.94
10	M010	ML038	67.89	0.89
11	M011	ML013	135.79	0.96
12	M012	ML004	178.90	0.92
13	M013	ML059	210.56	0.91
14	M014	ML030	95.50	0.94
15	M015	MI 017	115.33	0.97

Total rows: 80 of 80 Query complete 00:00:00.117

Successfully run. Total query runtime: 117 msec. 80 rows affected. X

Ln 6, Col 23

pgAdmin 4

File Object Tools Help

Object Explorer Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query Query History

```
5
6   select * from ProductionSupervisor;
7
8
9
10
11
```

Data Output Messages Notifications

	psid	[PK] character varying (50)	name	character	certification	character varying (100)	metricsid	character varying (50)	status	character
1	PS001		Aarav Sharma		—	API-123456	M012		Active	
2	PS002		Vihan Patel		—	ISO-9001-2020	M045		Inactive	
3	PS003		Aditya Gupta		—	OSHA-123456	M025		Active	
4	PS004		Ananya Reddy		—	ISO-13485	M063		Active	
5	PS005		Kabir Joshi		—	ASME-789012	M007		Inactive	
6	PS006		Neha Agarwal		—	NACE-987654	M054		Active	
7	PS007		Reyansh Verma		—	API-246810	M080		Active	
8	PS008		Saanvi Iyer		—	ISO-14001:2015	M018		Inactive	
9	PS009		Arjun Mehta		—	API-159753	M028		Active	
10	PS010		Kavya Singh		—	EN-ISO-9000	M022		Active	
11	PS011		Devansh Rao		—	ISO-50001	M038		Inactive	
12	PS012		Tanvi Desai		—	ASNT-TC-1A	M017		Active	
13	PS013		Additi Menon		—	ISO-45001	M070		Inactive	
14	PS014		Rohan Bansal		—	ISO-IEC-27001				
15	PS015		Priya Nair		—	AISC-141				

Total rows: 80 of 80 Query complete 00:00:00.117

Successfully run. Total query runtime: 117 msec. 80 rows affected. ✘

Ln 6, Col 35

pgAdmin 4

File Object Tools Help

Object Explorer Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16

Query Query History

```
5
6   select * from PsContact;
7
8
9
10
11
```

Data Output Messages Notifications

	psid	[PK] character varying (50)	contact	[PK] bigint
1	PS010		9876543210	
2	PS077		8765432109	
3	PS025		7654321098	
4	PS040		6543210987	
5	PS060		5432109876	
6	PS014		4321098765	
7	PS030		3210987654	
8	PS003		2109876543	
9	PS079		1098765432	
10	PS068		112223333	
11	PS045		2223334444	
12	PS001		3334445555	
13	PS023		4445556666	
14	PS057		5556667777	
15	PS005		6667778888	

Total rows: 119 of 119 Query complete 00:00:00.105

Successfully run. Total query runtime: 105 msec. 119 rows affected. ✘

Ln 6, Col 24

Queries

pgAdmin 4

File Object Tools Help

Object Explorer Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16*

Query Query History

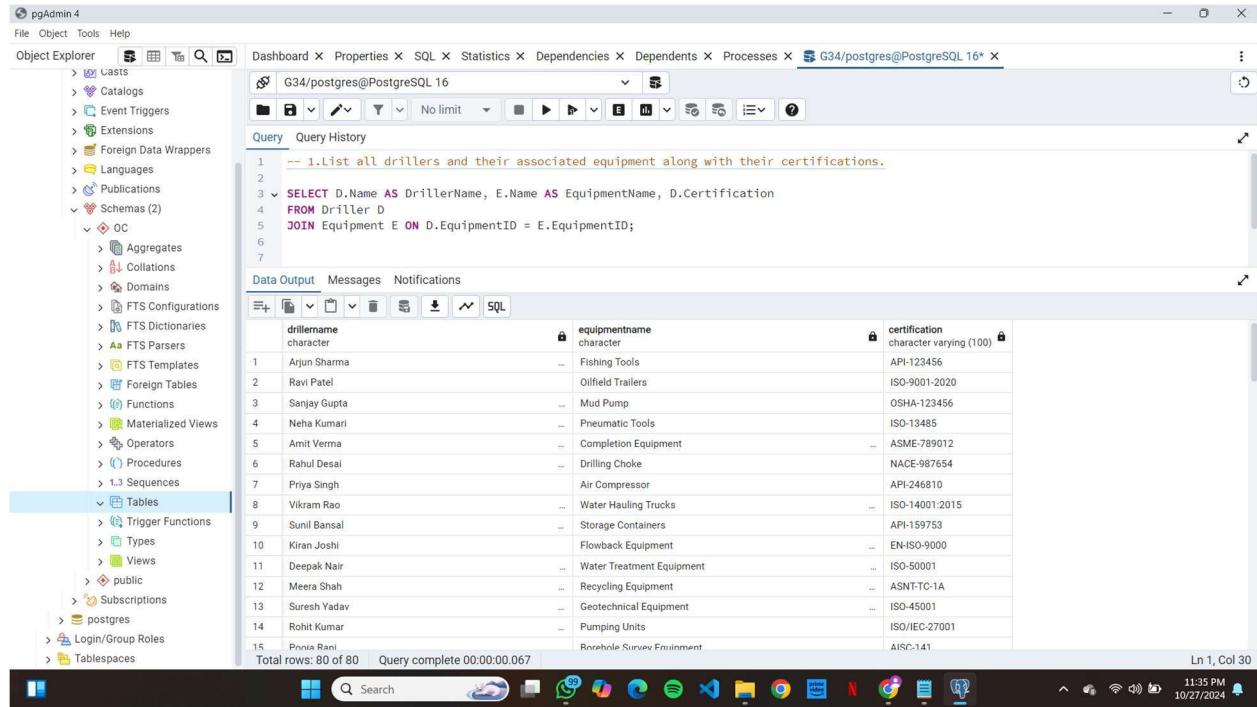
```
-- 1.List all drillers and their associated equipment along with their certifications.
SELECT D.Name AS DrillerName, E.Name AS EquipmentName, D.Certification
FROM Driller D
JOIN Equipment E ON D.EquipmentID = E.EquipmentID;
```

Data Output Messages Notifications

drillername	equipmentname	certification
Arjun Sharma	Fishing Tools	API-123456
Ravi Patel	Oilfield Trailers	ISO-9001-2020
Sanjay Gupta	Mud Pump	OSHA-123456
Neha Kumari	Pneumatic Tools	ISO-13485
Amit Verma	Completion Equipment	ASME-789012
Rahul Desai	Drilling Choke	NACE-987654
Priya Singh	Air Compressor	API-246810
Vikram Rao	Water Hauling Trucks	ISO-14001:2015
Sunil Bansal	Storage Containers	API-159753
Kiran Joshi	Flowback Equipment	EN-ISO-9000
Deepak Nair	Water Treatment Equipment	ISO-50001
Meera Shah	Recycling Equipment	ASNT-TC-1A
Suresh Yadav	Geotechnical Equipment	ISO-45001
Rohit Kumar	Pumping Units	ISO/IEC-27001
Pronita Ranji	Borehole Survey Equipment	AISCO-141

Total rows: 80 of 80 Query complete 00:00:00.067

Ln 1, Col 30



pgAdmin 4

File Object Tools Help

Object Explorer Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16*

Query Query History

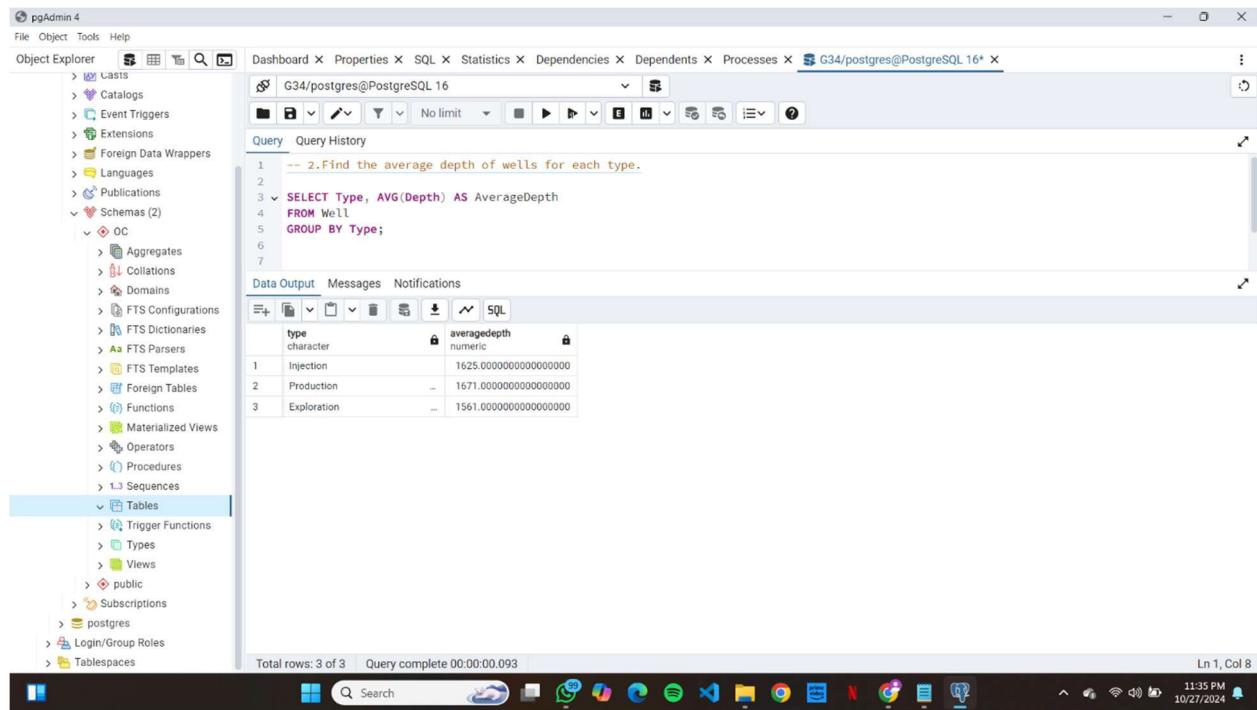
```
-- 2.Find the average depth of wells for each type.
SELECT Type, AVG(Depth) AS AverageDepth
FROM Well
GROUP BY Type;
```

Data Output Messages Notifications

type	averagedepth
Injection	1625.000000000000000000
Production	1671.000000000000000000
Exploration	1561.000000000000000000

Total rows: 3 of 3 Query complete 00:00:00.093

Ln 1, Col 8



pgAdmin 4

File Object Tools Help

Object Explorer Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query Query History

```

1 -- 3.Retrieve all mud loggers and their contact information.
2
3 v SELECT M.MLID AS MudLoggerName, C.Contact
4   FROM MudLogger M
5     JOIN MlContact C ON M.MLID = C.MLID ORDER BY M.MLID;
6
7

```

Data Output Messages Notifications

	mudloggername	contact
1	ML001	8765432109
2	ML001	7654321098
3	ML002	1098765432
4	ML002	7654321098
5	ML003	2109876543
6	ML003	8765432109
7	ML004	8765432109
8	ML005	7654321098
9	ML005	4321098765
10	ML006	3210987654
11	ML007	6543210987
12	ML007	5432109876
13	ML008	9876543210
14	ML008	4321098765
15	ML010	9876543210

Total rows: 116 of 116 Query complete 00:00:00.074

Ln 5, Col 53

pgAdmin 4

File Object Tools Help

Object Explorer Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16

Query Query History

```

1 -- 4.Get a list of manufacturers and the number of pieces of equipment they produce.
2
3 v SELECT MAN.Name AS ManufacturerName, COUNT(E.EquipmentID) AS EquipmentCount
4   FROM Manufacturer MAN
5     LEFT JOIN Equipment E ON MAN.ManufacturerID = E.ManufacturerID
6   GROUP BY MAN.Name;
7

```

Data Output Messages Notifications

	manufacturername	equipmentcount
1	Siemens Limited	2
2	L&T Hydrocarbon Engineering	2
3	Bharat Heavy Electricals Limited (BHEL)	2
4	Piyush Steel	1
5	Jindal Steel & Power	1
6	EPI (Eagle Power Industries)	1
7	Vishnu Chemicals	1
8	Cairn Energy	2
9	Bharat Petroleum Corporation Limited	1
10	Vikram Thermal Power Plant	0
11	Maxwell Energy	2
12	Bharat Oil and Chemicals Limited	2
13	Larsen & Toubro Limited	1
14	Ammann India	1
15	J.P. Engineering Works	1

Total rows: 79 of 79 Query complete 00:00:00.097

Ln 6, Col 19

pgAdmin 4

File Object Tools Help

Object Explorer G34/postgres@PostgreSQL 16*

Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16*

Query History

```
-- 5.Find the total cost of maintenance for each rig technician.
```

```
1
2
3 v SELECT R.Name AS TechnicianName, SUM(M.Cost) AS TotalMaintenanceCost
4 FROM RigTechnician R
5 JOIN Maintenance M ON R.RtID = M.RtID
6 GROUP BY R.Name;
7
```

Data Output Messages Notifications

technicianname	totalmaintenancecost
Abhishek Kumar	40000
Pankaj Verma	22000
Ravi Nair	17000
Siddharth Agarwal	16500
Karan Singh	15500
Ajay Singh	23000
Aniket Sharma	20000
Raj Kumar	49000
Amit Saini	20000
Yash Gupta	18000
Manish Kumar	21000
Ajay Joshi	38000
Rishi Gupta	17500
Dhruv Yadav	17500
Ravish Jindal	21000

Total rows: 15 of 61 Query complete 00:00:00.314 Ln 6, Col 17

This screenshot shows the pgAdmin 4 interface with a query results window. The query retrieves the total maintenance cost for each rig technician. The results are displayed in a table with columns for technician name and total maintenance cost. The total rows shown are 15 of 61, and the query completed in 0.314 seconds.

pgAdmin 4

File Object Tools Help

Object Explorer G34/postgres@PostgreSQL 16*

Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16*

Query History

```
-- 6.Get the contact information of production supervisors who have a specific certification.
```

```
1
2
3 v SELECT PS.Name, PC.Contact
4 FROM ProductionSupervisor PS
5 JOIN PsContact PC ON PS.PsID = PC.PsID
6 WHERE PS.Certification = 'API-123456';
7
```

Data Output Messages Notifications

name	contact
Aarav Sharma	3334445555
Aarav Sharma	2233445566

Total rows: 2 of 2 Query complete 00:00:00.061 Ln 4, Col 29

This screenshot shows the pgAdmin 4 interface with a query results window. The query retrieves the contact information of production supervisors who have a specific certification. The results are displayed in a table with columns for supervisor name and contact number. The total rows shown are 2 of 2, and the query completed in 0.061 seconds.

pgAdmin 4

File Object Tools Help

Object Explorer Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16*

Query History

```

1 -- 7. Find the total cost of equipment maintenance for each equipment type.
2
3 v SELECT E.Type, SUM(M.Cost) AS TotalMaintenanceCost
4   FROM Equipment E
5   JOIN Maintenance M ON E.EquipmentID = M.EquipmentID
6   GROUP BY E.Type;
7

```

Data Output Messages Notifications

	type	totalmaintenancecost
1	Maintenance Equipment	103000
2	Completion Equipment	76000
3	Cementing Equipment	169000
4	Mud Logging Equipment	37500
5	Exploration Equipment	83000
6	Monitoring Equipment	59000
7	Safety Equipment	196000
8	Drilling Equipment	352000
9	Testing Equipment	17500
10	Rig Equipment	65500
11	Subsea Equipment	19000
12	Logging Equipment	35000
13	Fracturing Equipment	43500
14	Recovery Equipment	15000
15	Production Equipment	431000

Total rows: 16 of 16 Query complete 00:00:00.123

Ln 6, Col 17

11:55 PM
10/27/2024

pgAdmin 4

File Object Tools Help

Object Explorer Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16*

Query History

```

1 -- 8. List all mud loggers and their wells, including those without a well.
2
3 v SELECT M.Name AS MudLoggerName, W.WellID
4   FROM MudLogger M
5   LEFT JOIN Well W ON M.WellID = W.WellID;
6
7

```

Data Output Messages Notifications

	mudloggername	wellid
1	Rahul Singh	W107
2	Anjali Sharma	W136
3	Vikram Patel	W114
4	Pooja Gupta	W119
5	Suresh Kumar	W128
6	Meena Rani	W106
7	Ajay Mehta	W048
8	Ravi Yadav	W141
9	Kiran Verma	W123
10	Sunita Joshi	W112
11	Deepak Thakur	W003
12	Sonia Choudhary	W101
13	Amit Agarwal	W097
14	Sakshi Jain	W046
15	Tanu Singh	W054

Total rows: 80 of 80 Query complete 00:00:00.099

Ln 6, Col 1

11:56 PM
10/27/2024

pgAdmin 4

File Object Tools Help

Object Explorer G34/postgres@PostgreSQL 16*

Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16*

Query History

```
-- 9.Get the equipment used by drillers who have a specific certification.
```

```
1
2
3 v SELECT E.Name AS EquipmentName , D.name AS DrillerName
4 FROM Equipment E
5 JOIN Driller D ON E.EquipmentID = D.EquipmentID
6 WHERE D.Certification = 'ISO-9001-2020';
```

Data Output Messages Notifications

equipmentname	drillername
Oilfield Trailers	Ravi Patel

Total rows: 1 of 1 Query complete 00:00:00.091 Ln 6, Col 41

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```
-- 9.Get the equipment used by drillers who have a specific certification.
```

```
1
2
3 v SELECT E.Name AS EquipmentName , D.name AS DrillerName
4 FROM Equipment E
5 JOIN Driller D ON E.EquipmentID = D.EquipmentID
6 WHERE D.Certification = 'ISO-9001-2020';
```

equipmentname	drillername
Oilfield Trailers	Ravi Patel

pgAdmin 4

File Object Tools Help

Object Explorer G34/postgres@PostgreSQL 16*

Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16*

Query History

```
-- 10.Find the number of production supervisors with a specific status.
```

```
1
2
3 v SELECT Status, COUNT(*) AS SupervisorCount
4 FROM ProductionSupervisor
5 GROUP BY Status;
```

Data Output Messages Notifications

status	supervisorcount
Active	45
Inactive	35

Total rows: 2 of 2 Query complete 00:00:00.112 Ln 7, Col 1

12:02 AM 10/28/2024

```
-- 10.Find the number of production supervisors with a specific status.
```

```
1
2
3 v SELECT Status, COUNT(*) AS SupervisorCount
4 FROM ProductionSupervisor
5 GROUP BY Status;
```

status	supervisorcount
Active	45
Inactive	35

pgAdmin 4

File Object Tools Help

Object Explorer Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16*

Query History

```
-- 11.Get a list of all maintenance records scheduled in the upcoming 3 month.
SELECT *
FROM Maintenance
WHERE Schedule BETWEEN CURRENT_DATE AND CURRENT_DATE + INTERVAL '3 month';
```

Data Output Messages Notifications

maintenanceid	schedule date	type	rtid	cost	equipmentid
M001	2025-01-10	Routine Check	RT015	15000	E010
M003	2025-01-15	Routine Check	RT040	18000	E005
M007	2025-01-25	Routine Check	RT050	17500	E032
M012	2025-01-12	Maintenance	RT017	18000	E007
M017	2025-01-08	Inspection	RT072	17000	E014
M021	2025-01-19	Maintenance	RT037	20000	E082
M024	2025-01-27	Repair	RT041	21000	E029
M027	2025-01-16	Maintenance	RT066	17500	E060
M030	2025-01-23	Repair	RT003	23000	E083
M033	2025-01-05	Inspection	RT053	15000	E064
M039	2025-01-11	Inspection	RT060	15000	E011
M042	2025-01-18	Maintenance	RT065	16500	E041
M046	2025-01-15	Emergency Repair	RT033	21000	E068
M051	2025-01-20	Repair	RT060	18000	E009
M058	2025-01-25	Inspection	RT011	16500	E054

Total rows: 24 of 24 Query complete 00:00:00.138

Ln 2, Col 1

pgAdmin 4

File Object Tools Help

Object Explorer Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16*

Query History

```
-- 12.List the rig technicians who have performed maintenance on a specific piece of equipment.
SELECT R.Name AS TechnicianName ,R.RtID AS ID
FROM RigTechnician R
JOIN Maintenance M ON R.RtID = M.RtID
WHERE M.EquipmentID = 'E001';
```

Data Output Messages Notifications

technicianname	id
Devendra Saini	RT027
Ansh Gupta	RT068

Successfully run. Total query runtime: 113 msec. 2 rows affected.

Total rows: 2 of 2 Query complete 00:00:00.113

Ln 3, Col 46

pgAdmin 4

File Object Tools Help

Object Explorer

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query History

```

1 -- 13.Find the average accuracy of metrics for each mud logger.
2
3 < SELECT ML.Name AS MudLoggerName, AVG(M.accuracy) AS AverageAccuracy
4   FROM MudLogger ML
5     JOIN Metrics M ON ML.MLID = M.MLID
6   GROUP BY ML.Name;
7
  
```

Data Output Messages Notifications

mudloggername	averageaccuracy
Deepak Thakur	0.9100000000000000
Pankaj Nair	0.9500000000000000
Anjali Sharma	0.9200000000000000
Karan Singh	0.9700000000000000
Rashmi Sharma	0.9800000000000000
Nitin Patel	0.8850000000000000
Chirag Sharma	0.9200000000000000
Harsh Mehta	0.9500000000000000
Rupal Singh	0.8950000000000000
Dinesh Nair	0.9100000000000000
Sunita Joshi	0.9500000000000000
Niranjan Singh	0.9300000000000000
Rani Rathi	0.9100000000000000
Yash Patel	0.9200000000000000
Rhavna Yadav	0.9500000000000000

Total rows: 64 of 64 Query complete 00:00:00.127 Ln 6, Col 18

pgAdmin 4

File Object Tools Help

Object Explorer

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query History

```

1 -- 14.Get a summary of maintenance costs for each rig technician along with their certifications.
2
3 < SELECT R.Name AS TechnicianName, R.Certification, SUM(M.Cost) AS TotalMaintenanceCost
4   FROM RigTechnician R
5     LEFT JOIN Maintenance M ON R.RtID = M.RtID
6   GROUP BY R.Name, R.Certification;
7
  
```

Data Output Messages Notifications

technicianname	certification	totalmaintenancecost
Raj Kumar	ISO 9001 Certified	49000
Gaurav Agarwal	ISO 45001 Certified	19000
Dhruv Yadav	API 16A Certified	17500
Manoj Bansal	ISO 45001 Certified	19500
Akash Verma	ISO 9001 Certified	36000
Parth Singh	API 7K Certified	15000
Suryansh Joshi	API 6A Certified	40000
Ajay Joshi	API 6A Certified	38000
Rohan Yadav	ISO 45001 Certified	33000
Karan Singh	ISO 45001 Certified	15500
Ishaan Kumar	API 6A Certified	[null]
Amit Saini	ISO 9001 Certified	20000
Vikram Joshi	API 16A Certified	17000
Akhay Gupta	ISO 9001 Certified	[null]
Prateek Inshi	ISO 45001 Certified	38000

Total rows: 80 of 80 Query complete 00:00:00.125 Ln 7, Col 1

pgAdmin 4

File Object Tools Help

Object Explorer G34/postgres@PostgreSQL 16*

Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16*

Query History

```

1 -- 15.Find the number of contacts per production supervisor.
2
3 v SELECT PS.Name AS SupervisorName, COUNT(PC.Contact) AS ContactCount
4 FROM ProductionSupervisor PS
5 LEFT JOIN PsContact PC ON PS.PsID = PC.PsID
6 GROUP BY PS.Name;
7

```

Data Output Messages Notifications

	supervisorname	contactcount
1	Meera Chatterjee	3
2	Yash Patil	1
3	Shikha Sharma	1
4	Ansh Bhandari	2
5	Sanya Sharma	1
6	Devansh Rao	2
7	Sneha Kaur	2
8	Rudra Singh	1
9	Krishna Iyer	1
10	Sonam Mehta	1
11	Shivangi Khanna	1
12	Samar Gupta	2
13	Tanvi Desai	1
14	Niranjan Bhaskar	2
15	Karik Aawathi	1

Total rows: 79 of 79 Query complete 00:00:00.437 Ln 6, Col 18

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pgAdmin 4

File Object Tools Help

Object Explorer G34/postgres@PostgreSQL 16*

Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16*

Query History

```

1 -- 16.List all rig technicians who have maintenance records with costs exceeding the average maintenance cost.
2
3 v SELECT RT.Name AS TechnicianName, RT.Certification, M.Cost
4 FROM RigTechnician RT
5 JOIN Maintenance M ON RT.RtID = M.RtID
6 WHERE M.Cost > (SELECT AVG(Cost) FROM Maintenance);
7

```

Data Output Messages Notifications

	technicianname	certification	cost
1	Kunal Sharma	ISO 45001 Certified	20000
2	Gaurav Agarwal	ISO 45001 Certified	19000
3	Karan Saini	ISO 14001 Certified	22000
4	Suresh Patel	API 6A Certified	24000
5	Nishant Kumar	API 16A Certified	21000
6	Rahul Gupta	API 7K Certified	19000
7	Abhishek Kumar	API 16A Certified	23000
8	Ramesh Gupta	ISO 9001 Certified	19000
9	Aniket Sharma	API 16A Certified	20000
10	Raghav Joshi	API 6A Certified	21000
11	Anil Saini	ISO 14001 Certified	24000
12	Manoj Bansal	ISO 45001 Certified	19500
13	Deepak Sharma	API 7K Certified	23000
14	Tarun Patel	API 16A Certified	20000
15	Survaneh. Inshi	API 6A Certified	19000

Total rows: 50 of 50 Query complete 00:00:00.148 Ln 6, Col 52

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pgAdmin 4

File Object Tools Help

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query History

```
-- 17. Get the names and certificates of all drillers assigned to wells that are currently "Active."
SELECT D.Name AS DrillerName, D.Certification
FROM Driller D
JOIN Well W ON D.DrillerID = W.DrillerID
WHERE W.Status = 'Active';
```

Data Output Messages Notifications

drillername	certification
Sonal Deshmukh	ISO-50001:2018
Meera Shah	ASNT-TC-1A
Rohan Kapoor	ISO-9001:2008
Kiran Bhatia	ISO-9001:2008
Amit Verma	ASME-789012
Krishna Sharma	ISO-37001:2016
Rakesh Patil	AWS-D1.5
Rohit Kumar	ISO/IEC-27001
Manish Gupta	ISO-29001
Kartik Iyer	ISO-9001:2015
Punet Sharma	NACE-CP-2
Nisha Mehta	ISO-22000
Harsh Kumar	ISO-40001
Jasmin Ghosh	ISO-37001
Niranjan Patel	ISO/IEC-17020

Total rows: 100 of 100 Query complete 00:00:00.128

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pgAdmin 4

File Object Tools Help

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query History

```
-- 18. Retrieve all production supervisors and the latest metrics data they are associated with.
SELECT PS.Name AS SupervisorName, PS.Certification, M.Measurement, M.Accuracy
FROM ProductionSupervisor PS
JOIN Metrics M ON PS.MetricsID = M.MetricsID
WHERE M.Measurement = (SELECT MAX(M2.Measurement) FROM Metrics M2 WHERE M2.MLID = M.MLID);
```

Data Output Messages Notifications

supervisorname	certification	measurement	accuracy
Aarav Sharma	API-123456	178.90	0.92
Vihaan Patel	ISO-9001-2020	55.66	0.90
Aditya Gupta	OSHA-123456	124.56	0.92
Ananya Reddy	ISO-13485	88.80	0.91
Kabir Joshi	ASME-789012	120.98	0.92
Reyansh Verma	API-246810	85.60	0.91
Saanvi Iyer	ISO-14001-2015	180.00	0.96
Arjun Mehta	API-159753	76.64	0.95
Kavya Singh	EN-ISO-9000	87.45	0.95
Devansh Rao	ISO-50001	54.77	0.90
Tanvi Desai	ASNT-TC-1A	135.25	0.95
Rohan Bansal	ISO/IEC-27001	69.85	0.97
Pooja Nair	AISC-141	72.05	0.96
Parth Khanna	ISO-22000	111.12	
Sneha Kaur	NFPA-70F	134.56	

Total rows: 63 of 63 Query complete 00:00:00.108

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pgAdmin 4

File Object Tools Help

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query History

```

1 -- 19.List all wells along with their depth and the type of equipment used by their assigned driller.
2
3 < SELECT W.WellID, W.Depth, W.Type AS WellType, E.Type AS EquipmentType
4   FROM Well W
5     JOIN Driller D ON W.DrillerID = D.DrillerID
6     JOIN Equipment E ON D.EquipmentID = E.EquipmentID;
7
  
```

Data Output Messages Notifications

	wellid	depth	welltype	equipmenttype
1	W001	1500	Exploration	Production Equipment
2	W002	2000	Production	Production Equipment
3	W003	1800	Injection	Logistics Equipment
4	W004	1200	Exploration	Maintenance Equipment
5	W005	1600	Production	Production Equipment
6	W006	1400	Injection	Completion Equipment
7	W007	1300	Exploration	Exploration Equipment
8	W008	1900	Production	Maintenance Equipment
9	W009	1700	Injection	Logistics Equipment
10	W010	1550	Exploration	Mud Logging Equipment
11	W011	2050	Production	Production Equipment
12	W012	1650	Injection	Production Equipment
13	W013	1400	Exploration	Production Equipment
14	W014	1750	Production	Production Equipment
15	W015	1850	Injection	Production Equipment

Total rows: 15 of 150 Query complete 00:00:00.113

Successfully run. Total query runtime: 113 msec. 150 rows affected. X

Ln 7, Col 1

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pgAdmin 4

File Object Tools Help

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query History

```

1 -- 20.Find the average measurement and accuracy recorded by each mud logger in the Metrics table.
2
3 < SELECT ML.Name AS MudLoggerName, AVG(M.Measurement) AS AvgMeasurement, AVG(M.Accuracy) AS AvgAccuracy
4   FROM MudLogger ML
5     JOIN Metrics M ON ML.MLID = M.MLID
6   GROUP BY ML.Name;
7
  
```

Data Output Messages Notifications

	mudloggername	avgmeasurement	avgaccuracy
1	Deepak Thakur	87.19000000000000	0.9100000000000000
2	Pankaj Nair	76.64000000000000	0.9500000000000000
3	Anjali Sharma	92.05000000000000	0.9200000000000000
4	Karan Singh	115.33000000000000	0.9700000000000000
5	Rashmi Sharma	98.76000000000000	0.9800000000000000
6	Nitin Patel	150.45000000000000	0.8850000000000000
7	Chirag Sharma	124.56000000000000	0.9200000000000000
8	Harsh Mehta	87.45000000000000	0.9500000000000000
9	Rupal Singh	96.75500000000000	0.8950000000000000
10	Dinesh Nair	85.60000000000000	0.9100000000000000
11	Sunita Joshi	135.25000000000000	0.9500000000000000
12	Niranjan Singh	200.34000000000000	0.9300000000000000
13	Rani Rathi	85.25000000000000	0.9100000000000000
14	Yash Patel	112.34000000000000	0.9200000000000000
15	Rhavna Yarav	65.50000000000000	0.9500000000000000

Total rows: 64 of 64 Query complete 00:00:00.125

Successfully run. Total query runtime: 125 msec. 64 rows affected. X

Ln 6, Col 18

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pgAdmin 4

File Object Tools Help

Object Explorer Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16*

Query History

```

1 -- 21.Count the distinct certifications for technicians associated with equipment from each manufacturer.
2
3 ✓ SELECT M.Name AS ManufacturerName, COUNT(DISTINCT RT.Certification) AS CertificationCount
4   FROM Manufacturer M
5   JOIN Equipment E ON M.ManufacturerID = E.ManufacturerID
6   JOIN RigTechnician RT ON E.EquipmentID = RT.EquipmentID
7   GROUP BY M.Name;

```

Data Output Messages Notifications

	manufacturername	certificationcount
1	Aker Solutions	2
2	Arvind Infrastructure Limited	2
3	Bharat Heavy Electricals Limited (BHEL)	2
4	Bharat Petroleum Corporation Limited	2
5	Deep Industries	3
6	EPCIL (Electronics Corporation of India Limited)	3
7	Essar Oil Limited	3
8	GAIL (India) Limited	3
9	Halliburton	1
10	Harshdeep Industries	2

Total rows: 30 of 30 Query complete 00:00:00.118

Successfully run. Total query runtime: 118 msec. 30 rows affected. X

Ln 7, Col 17

pgAdmin 4

File Object Tools Help

Object Explorer Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16*

Query History

```

1 -- 22.List production supervisors managing the highest recorded accuracy metrics in their respective wells.
2
3 ✓ SELECT PS.Name, M.Accuracy
4   FROM ProductionSupervisor PS
5   JOIN Metrics M ON PS.MetricsID = M.MetricsID
6   WHERE M.Accuracy = (SELECT MAX(Accuracy) FROM Metrics WHERE M.MLID = M.MLID);
7

```

Data Output Messages Notifications

	name	accuracy
1	Aarav Sharma	0.92
2	Vihann Patel	0.90
3	Aditya Gupta	0.92
4	Ananya Reddy	0.91
5	Neha Agarwal	0.95
6	Reyansh Verma	0.91
7	Saanvi Iyer	0.96
8	Arjun Mehta	0.95
9	Kavya Singh	0.95
10	Devansh Rao	0.90

Total rows: 65 of 65 Query complete 00:00:00.167

Successfully run. Total query runtime: 167 msec. 65 rows affected. X

Ln 7, Col 1

pgAdmin 4

File Object Tools Help

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query History

```

1 -- 23. Retrieve all technicians with certifications that also appear in the production supervisors' certifications.
2
3 < SELECT RT.Name AS TechnicianName, RT.Certification
4   FROM RigTechnician RT
5 WHERE RT.Certification IN (SELECT DISTINCT Certification FROM ProductionSupervisor);
6
7

```

Data Output Messages Notifications

technicianname	certification
character	character varying (100)

Total rows: 0 of 0 Query complete 00:00:00.120 Ln 6, Col 1

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query History

```

1 -- 24. List equipment with costs exceeding 75% of the maximum cost of any equipment.
2
3 < SELECT E.EquipmentID, E.Name, E.Cost
4   FROM Equipment E
5 WHERE E.Cost > (SELECT MAX(Cost) * 0.75 FROM Equipment);
6
7

```

Data Output Messages Notifications

equipmentid	name	cost
E002	Offshore Drilling Rig	25000000

Successfully run. Total query runtime: 128 msec. 1 rows affected.

Total rows: 1 of 1 Query complete 00:00:00.128 Ln 6, Col 1

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File Object Tools Help

Object Explorer Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16*

Query History

```

1 -- 25.Get all unique certifications held by production supervisors managing wells deeper than 3000.
2
3 < SELECT DISTINCT PS.Certification
4   FROM ProductionSupervisor PS
5   JOIN MudLogger ML ON PS.PSID = ML.MLID
6   JOIN Well W ON ML.WellID = W.WellID
7   WHERE W.Depth > 3000;
8

```

Data Output Messages Notifications

certification character varying (100)

Total rows: 0 of 0 Query complete 00:00:00.111

Successfully run. Total query runtime: 111 msec. 0 rows affected. X

Ln 8, Col 1

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File Object Tools Help

Object Explorer Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16*

Query History

```

1 -- 26.Find the total number of active production supervisors and their average equipment cost.
2
3 < SELECT COUNT(PS.PSID) AS ActiveSupervisors, AVG(E.Cost) AS AvgEquipmentCost
4   FROM ProductionSupervisor PS
5   JOIN MudLogger ML ON PS.PSID = ML.MLID
6   JOIN Well W ON ML.WellID = W.WellID
7   JOIN Equipment E ON W.WellID = E.EquipmentID
8   WHERE PS.Status = 'Active';
9
10
11

```

Data Output Messages Notifications

	activesupervisors	avgequipmentcost
1	0	[null]

Total rows: 1 of 1 Query complete 00:00:00.093

Successfully run. Total query runtime: 93 msec. 1 rows affected. X

Ln 10, Col 1

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Object Explorer G34/postgres@PostgreSQL 16*

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Query Query History

```

1 -- 27.Find the top 5 rig technicians based on the count of maintenance records over 5,000.
2
3 v SELECT RT.Name AS TechnicianName, COUNT(M.MaintenanceID) AS HighCostMaintenanceCount
4 FROM RigTechnician RT
5 JOIN Maintenance M ON RT.RtID = M.RtID
6 WHERE M.Cost > 5000
7 GROUP BY RT.Name
8 ORDER BY HighCostMaintenanceCount DESC
9 LIMIT 5;
10
11
12

```

Data Output Messages Notifications

technicianname	character	highcostmaintenancecount
Kunal Sharma	—	5
Kunal Thakur	—	3
Tarun Patel		3
Raj Kumar		3
Amit Khanna	—	3

Total rows: 5 of 5 Query complete 00:00:00.125 ✓ Successfully run. Total query runtime: 125 msec. 5 rows affected. Ln 11, Col 1

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File Object Tools Help

Object Explorer G34/postgres@PostgreSQL 16*

Dashboard Properties SQL Statistics Dependencies Dependents Processes G34/postgres@PostgreSQL 16*

Query Query History

```

1 -- 28.List the average cost of equipment provided by each manufacturer in descending order.
2
3 v SELECT M.Name AS ManufacturerName, AVG(E.Cost) AS AvgEquipmentCost
4 FROM Manufacturer M
5 JOIN Equipment E ON M.ManufacturerID = E.ManufacturerID
6 GROUP BY M.Name
7 ORDER BY AvgEquipmentCost DESC;
8
9
10
11
12

```

Data Output Messages Notifications

manufacturername	character	avgequipmentcost
ISGEC Heavy Engineering Ltd.		25000000.000000000000
Tata Steel		8000000.000000000000
Cairn India		800000.000000000000
Bharat Petroleum Corporation Limited	—	800000.000000000000
Patel Engineering Ltd.		5300000.000000000000
Larsen & Toubro Limited		5000000.000000000000
Bharat Heavy Electricals Limited (BHEL)	—	2750000.000000000000
Hindustan Construction Company (HCC)	—	2625000.000000000000
Siemens Limited		2600000.000000000000
S. M. J. Engineering Co.		2150000.000000000000
Mahindra & Mahindra	—	1450000.000000000000

Total rows: 63 of 63 Query complete 00:00:00.130 ✓ Successfully run. Total query runtime: 130 msec. 63 rows affected. Ln 7, Col 32

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query History

```
1 -- 29.Find equipment types with a total cost greater than the average well depth.
2
3 < SELECT E.Type, SUM(E.Cost) AS TotalCost
4   FROM Equipment E
5   JOIN Well W ON E.EquipmentID = W.WellID
6   GROUP BY E.Type
7   HAVING SUM(E.Cost) > (SELECT AVG(WellDepth) FROM Well);
8
9
10 |
11
12
```

Data Output Messages Notifications

SQL

type	totalcost
character	bigint

Total rows: 0 of 0 Query complete 00:00:00.113 Ln 10, Col 1

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query History

Execute script

```
1 -- 30.Retrieve production supervisors linked to mud loggers with an average accuracy above 95.
2
3 < SELECT PS.Name, M.Accuracy
4   FROM ProductionSupervisor PS
5   JOIN Metrics M ON PS.MetricsID = M.MetricsID
6   WHERE M.MID IN (
7     SELECT MID
8       FROM Metrics
9      GROUP BY MID
10      HAVING AVG(Accuracy) > 95
11   );
12
```

Data Output Messages Notifications

SQL

name	accuracy
character	numeric(10,2)

Successfully run. Total query runtime: 128 msec. 0 rows affected. Ln 12, Col 1

Total rows: 0 of 0 Query complete 00:00:00.128 12:54 AM 10/28/2024

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query History

```
-- 31.List the top 3 mud loggers who assigned "Inactive" wells.
SELECT ML.Name AS MudLoggerName, COUNT(W.WellID) AS InactiveWellsCount
FROM Mudlogger ML
JOIN Well W ON ML.WellID = W.WellID
WHERE W.Status = 'Inactive'
GROUP BY ML.Name
ORDER BY InactiveWellsCount DESC
LIMIT 3;
```

Data Output

mudloggername	inactivewellscount
Gauri Patel	1
Arvind Singh	1
Parul Sharma	1

Total rows: 3 of 3 Query complete 00:00:00.158

Successfully run. Total query runtime: 158 msec. 3 rows affected. Ln 10, Col 1

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query History

```
-- 32.List the highest cost maintenance performed per rig technician.
SELECT RT.Name AS TechnicianName, MAX(M.Cost) AS HighestMaintenanceCost
FROM RigTechnician RT
JOIN Maintenance M ON RT.RtID = M.RtID
GROUP BY RT.Name;
```

Data Output

technicianname	highestmaintenancecost
Abhishek Kumar	23000
Pankaj Verma	22000
Ravi Nair	17000
Siddharth Agarwal	16500
Karan Singh	15500
Ajay Singh	23000
Aniket Sharma	20000
Raj Kumar	18000
Amit Saini	20000
Yash Gupta	18000
Minal Kumar	21000

Total rows: 61 of 61 Query complete 00:00:00.115

Successfully run. Total query runtime: 115 msec. 61 rows affected. Ln 8, Col 1

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query History

```
1 -- 33.Retrieve all mud loggers with metrics whose accuracy exceeds the equipment cost of their wells.
2
3 < SELECT ML.Name, M.Accuracy, E.Cost
4   FROM Mudlogger ML
5     JOIN Metrics M ON ML.MLID = M.MLID
6     JOIN Well W ON ML.WellID = W.WellID
7     JOIN Equipment E ON W.WellID = E.EquipmentID
8   WHERE M.Accuracy > E.Cost;
9
10
11
12
```

Data Output Messages Notifications

name	accuracy	cost
character	numeric(10,2)	integer

Total rows: 0 of 0 Query complete 00:00:00.085

✓ Successfully run. Total query runtime: 85 msec. 0 rows affected. Ln 6, Col 36

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query History

Execute script

```
1 -- 34.Find all manufacturers who supply equipment for "Active" wells only.
2
3 < SELECT M.Name
4   FROM Manufacturer M
5     JOIN Equipment E ON M.ManufacturerID = E.ManufacturerID
6     JOIN Well W ON E.EquipmentID = W.WellID
7   WHERE W.Status = 'Active'
8   GROUP BY M.Name
9   HAVING COUNT(DISTINCT W.Status) = 1;
10
11
12
```

Data Output Messages Notifications

name
character

Total rows: 0 of 0 Query complete 00:00:00.104

✓ Successfully run. Total query runtime: 104 msec. 0 rows affected. Ln 9, Col 37

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query History

```
1 -- 35.List the most common well type each driller is associated with.
2
3 < SELECT D.Name AS DrillerName, W.Type AS MostCommonWellType
4   FROM Driller D
5   JOIN Well W ON D.DrillerID = W.DrillerID
6   GROUP BY D.Name, W.Type
7   ORDER BY COUNT(W.WellID) DESC
8   LIMIT 1;
```

Data Output Messages Notifications

drillername	mostcommonwelltype
Vishal Gupta	Exploration

Total rows: 1 of 1 Query complete 00:00:00.095

Successfully run. Total query runtime: 95 msec. 1 rows affected. X

Ln 7, Col 30

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query History

```
1 -- 36.Retrieve metrics for each mud logger with the highest accuracy recorded.
2
3 < SELECT ML.Name, MAX(M.Accuracy) AS MaxAccuracy
4   FROM MudLogger ML
5   JOIN Metrics M ON ML.MLID = M.MLID
6   GROUP BY ML.Name;
```

Data Output Messages Notifications

name	maxaccuracy
Deepak Thakur	0.91
Pankaj Nair	0.95
Anjali Sharma	0.92
Karan Singh	0.97
Rashmi Sharma	0.98
Nitin Patel	0.89
Chirag Sharma	0.92
Harsh Mehta	0.95
Rupal Singh	0.90
Dinesh Nair	0.91

Total rows: 64 of 64 Query complete 00:00:00.181

Successfully run. Total query runtime: 181 msec. 64 rows affected. X

Ln 2, Col 1

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query History

```

1 -- 37.Get the top 5 manufacturers based on the cumulative cost of equipment they provide.
2
3 < SELECT M.Name AS ManufacturerName, SUM(E.Cost) AS TotalEquipmentCost
4   FROM Manufacturer M
5     JOIN Equipment E ON M.ManufacturerID = E.ManufacturerID
6   GROUP BY M.Name
7   ORDER BY TotalEquipmentCost DESC
8   LIMIT 5;
9
10
11
12
  
```

Data Output Messages Notifications

	manufacturername	totalequipmentcost
1	ISGEC Heavy Engineering Ltd.	25000000
2	Patel Engineering Ltd.	10600000
3	Cairn India	8000000
4	Bharat Petroleum Corporation Limited	8000000
5	Tata Steel	8000000

Total rows: 5 of 5 Query complete 00:00:00.170

Successfully run. Total query runtime: 170 msec. 5 rows affected. Ln 12, Col 1

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Query History

```

1 -- 38.List all production supervisors who have no contact information in the PsContact table.
2
3 < SELECT PS.Name, PS.Certification
4   FROM ProductionSupervisor PS
5     LEFT JOIN PsContact PC ON PS.PsID = PC.PsID
6   WHERE PC.PsID IS NULL;
7
8
9
10
11
12
  
```

Data Output Messages Notifications

	name	certification
1	Arjun Mehta	API-159753
2	Karan Kapoor	AWS-D1.1
3	Rishabh Saini	API-609
4	Bhavya Singh	ISO-9001-2021

Total rows: 4 of 4 Query complete 00:00:00.136

Successfully run. Total query runtime: 136 msec. 4 rows affected. Ln 4, Col 29

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query History

```
1 -- 39.Find all mud loggers associated with wells that have both "Active" and "Inactive" statuses.
2
3 < SELECT ML.Name, ML.Certification
4   FROM Mudlogger ML
5   JOIN Well W ON ML.WellID = W.WellID
6   GROUP BY ML.Name, ML.Certification
7   HAVING COUNT(DISTINCT W.Status) = 2;
8
9
10
11
12
```

Data Output Messages Notifications

name	certification
character	character varying (100)

Total rows: 0 of 0 Query complete 00:00:00.125

Successfully run. Total query runtime: 125 msec. 0 rows affected. X

Ln 8, Col 1

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Dashboard X Properties X SQL X Statistics X Dependencies X Dependents X Processes X G34/postgres@PostgreSQL 16*

Query History

```
1 -- 40.Find the most frequently used type of equipment across all drillers.
2
3 < SELECT E.Type, COUNT(D.DrillerID) AS UsageCount
4   FROM Equipment E
5   JOIN Driller D ON E.EquipmentID = D.EquipmentID
6   GROUP BY E.Type
7   ORDER BY UsageCount DESC
8   LIMIT 1;
9
10
11
12
```

Data Output Messages Notifications

type	usagecount
character	bitint
Production Equipment	21

Total rows: 1 of 1 Query complete 00:00:00.122

Successfully run. Total query runtime: 122 msec. 1 rows affected. X

Ln 8, Col 9

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