

DBMS PROJECT

SQL QUERIES

Find list of all patient who is treated by doctor whose did is 8001 in year 2015

*Select * from Patient join treated_by on (Patient.pid=treated_by.pid) where treated_by.did=8001 and patient.admit_from>=Date '2015-01-01' and patient.admit_to<= Date '2015-12-31';*

postgres on postgres@Dbms

```
1 Select * from Patient join treated_by on (Patient.pid=treated_by.pid) where treated_by.did=8001 and patient.admit_from>=Date '
2
```

Data Output Explain Messages History

	patient_type character varyi...	p_name character vary...	ward_no integer	gender chara...	admit_from date	admit_to date	pid integer	age integer	pid integer	did integer
<input type="checkbox"/>	In	Rahul	1001	M	2015-04-14	2015-05-14	3001	20	3001	8001
<input type="checkbox"/>	In	Sapna	1002	F	2015-04-14	2015-04-14	3017	22	3017	8001

Find name of patient who is treated by doctor whose employee id is 4401;

Select patient_name from patient join treated_by on (Patient.pid=treated_by.pid) where treated_by.did=(select did from doctor join employee on (doctor.eid=employee.eid) where doctor.eid=4401);

postgres on postgres@Dbms

```
1 Select p_name from patient join treated_by on (Patient.pid=treated_by.pid) where treated_by.did=(select did from doctor join
2
```

Data Output Explain Messages History

	p_name character varying (-1)
<input type="checkbox"/>	Rahul
<input type="checkbox"/>	Chauhan
<input type="checkbox"/>	Palak
<input type="checkbox"/>	Debdutta
<input type="checkbox"/>	Sapna

Find name of the visitor coming for meeting patient 3001 or 3002

Select Visitor_name from visitor natural join to_meet natural join patient where pid=3001 or pid=3002;

postgres on postgres@Dbms

```

1 Select Visitor_name from visitor natural join to_meet natural join patient where pid=3001 or pid=3002;
2

```

Data Output Explain Messages History

visitor_name	character varying (-1)
<input type="checkbox"/> Subhash	
<input type="checkbox"/> Prakash	

Total query runtime: 582 msec.
2 rows retrieved.

Find the appointment date, contact and eid of the doctor who is appointed to meet with appointment_no 3301?

Select c1.eid, c4.appointment_date, c1.contact

From contact c1 inner join doctor c2 on (c1.eid=c2.eid)

inner join appointment_with c3 on (c2.did=c3.did)

inner join appointment c4 on (c3.appointment_no=c4.appointment_no)

where c4.appointment_no=3301;

postgres on postgres@Dbms

```

9      cn (c2.did=c3.did)
10      inner join
11      appointment c4
12      cn (c3.appointment_no=c4.appointment_no)
13      where c4.appointment_no=3301;

```

Data Output Explain Messages History

eid	integer	appointment_date	date	contact	character varying (-1)
<input type="checkbox"/>	4401	2014-03-23		9936278346	

Total query runtime: 579 msec.
1 rows retrieved.

list the name, id of out patient and details of medicine with bill_no and total amount to be paid?

Select p1.p_name,p2.med_qty,p1.pid , p2.med_id , p3.bill_no , p4.amount

From patient p1 inner join medicine_advisory p2 on (p1.pid=p2.pid)

inner join medicine_bill p3 on (p2.pid=p3.pid)

List all patients in ward number 1002 sorted by increasing age.

```
SELECT * FROM Patient WHERE Ward_Number=1002 ORDER BY age INC;
```

```
sneha@Inspiron-5558: ~  
  
patient_type | p_name | ward_no | gender | admit_from | admit_to | pid | a  
ge  
-----+-----+-----+-----+-----+-----+-----+--  
---  
In           | Sapna  | 1002 | F      | 2015-04-14 | 2015-04-14 | 3017 |  
22  
In           | Sankit | 1002 | M      | 2016-07-14 | 2016-07-14 | 3002 |  
24  
Out          | Rita   | 1002 | F      | 2013-04-15 | 2013-04-20 | 3011 |  
48  
In           | Achintya | 1002 | M      | 2015-07-14 | 2015-08-14 | 3018 |  
67  
(4 rows)  
(END)
```

List all the patients being treated by doctor with ID

```
SELECT * FROM (Patient p JOIN Treated_By t on p.PID=t.PID) WHERE t.DID=8001;
```

```
sneha@Inspiron-5558: ~  
  
patient_type | p_name | ward_no | gender | admit_from | admit_to | pid | a  
ge | pid | did  
-----+-----+-----+-----+-----+-----+-----+--  
---+-----+-----  
In           | Rahul  | 1001 | M      | 2015-04-14 | 2015-05-14 | 3001 |  
20 | 3001 | 8001  
Out          | Chauhan | 1001 | M      | 2017-01-14 | 2017-01-14 | 3012 |  
15 | 3012 | 8001  
In           | Palak  | 1001 | F      | 2012-04-10 | 2012-05-14 | 3014 |  
54 | 3014 | 8001  
In           | Debduitta | 1001 | M      | 2016-04-22 | 2016-05-23 | 3016 |  
24 | 3016 | 8001  
In           | Sapna  | 1002 | F      | 2015-04-14 | 2015-04-14 | 3017 |  
22 | 3017 | 8001  
(5 rows)  
(END)
```

Show the names of all visitors of patient with PID .

```
SELECT Visitor_Name FROM (Visitor v JOIN (Patient p JOIN to_meet t ON p.PID=t.PID AS pt) ON  
v.VisitorID=pt.VisitorID) WHERE PID=3003;
```

A terminal window with a dark purple background and a title bar that reads 'sneha@Inspiron-5558: ~'. The terminal displays the output of a SQL query. It shows a header row with column names: 'patient_type | p_name | ward_no | gender | admit_from | admit_to | pid | age | pid | did'. Below the header is a separator line made of dashes and plus signs. The result shows '(0 rows)', indicating no data was returned. At the bottom, '(END)' is displayed in a light blue box.

```
sneha@Inspiron-5558: ~  
  
patient_type | p_name | ward_no | gender | admit_from | admit_to | pid | age | pid | age |  
pid | did  
-----+-----+-----+-----+-----+-----+-----+-----+-----+  
----+-----  
(0 rows)  
(END)
```

List all the medicines prescribed to patient 3003 by doctor .

```
SELECT * FROM Medicine_Advisory WHERE DID=8001 AND PID=3003;
```

sneha@Inspiron-5558: ~

med_qty	pid	did	med_id	prescription_date	patient_type	p_name	ward_no
5	3005	8005	6605	2017-02-16	In	Sreeraj	1005

(1 row)

(END)

Give the count of number of Operations performed by Doctor 3001 on Patient 9901.

SELECT COUNT() FROM Ops_Table where PID=3001 AND OID=9901;*

sneha@Inspiron-5558: ~

```
postgres=# INSERT into Stay_Charges Values (3020, 700, 1002, 21016);
INSERT 0 1
postgres=# SELECT COUNT(*) FROM Operations_Advisory where DID=987 AND OID=12345;

ERROR:  column "did" does not exist
LINE 1: SELECT COUNT(*) FROM Operations_Advisory where DID=987 AND O...
                                     ^
HINT:  Perhaps you meant to reference the column "operations_advisory.pid" or the column "operations_advisory.oid".
postgres=# SELECT COUNT(*) FROM Operations_Advisory where PID=987 AND OID=12345;

 count
-----
      0
(1 row)

postgres=# SELECT COUNT(*) FROM Operations_Advisory where PID=3001 AND OID=9901;

 count
-----
      1
(1 row)

postgres=#
```

List all the types of doctors and the count of each type.

```
SELECT Doctor.D_Type, count(*) FROM (Doctor_Type JOIN Doctor on Doctor_Type.D_Type =
Doctor.D_Type) GROUP BY Doctor.D_Type;
```

```
sneha@Inspiron-5558: ~
1
1
1
1
1
1
(10 rows)

postgres=# SELECT Doctor.D_Type, count(*) FROM (Doctor_Type JOIN Doctor on Doc
tor_Type.D_Type = Doctor.D_Type) GROUP BY Doctor.D_Type;
 d_type | count
-----+-----
 DType02 |      1
 DType03 |      1
 DType04 |      1
 DType06 |      1
 DType10 |      1
 DType05 |      1
 DType01 |      1
 DType09 |      1
 DType08 |      1
 DType07 |      1
(10 rows)

postgres=#
```

List the details of the bill of patient – 3001.

```
select bill_no,pid,test_amount,medicine_amount,sum as operation_amount from Test_Bill natural join
Medicine_Bill natural join Operation_Bill natural join
( select operations_advisoryid,bill_no,sum from Operation_Bill natural join
( select operations_advisoryid,sum(op_rate)
from Available_Operation join Operations_Advisory
on Available_Operation.OP_ID = Operations_Advisory.OID
where PID = 3001
group by operations_advisoryid ) as Opt ) as oper
where pid = 3001;
```

Query - postgres on postgres@localhost:5432 *

SQL Editor Graphical Query Builder

Previous queries

```

select bill_no,pid,test_amount,medicine_amount,sum as operation_amount from Test_Bill natural join Medicine_Bill natural join
( select operations_advisoryid,bill_no,sum from Operation_Bill natural join
( select operations_advisoryid,sum(op_rate)
from Available_Operation join Operations_Advisory
on Available_Operation.OP_ID = Operations_Advisory.OID
where PID = 3001
group by operations_advisoryid ) as Opt ) as oper
where pid = 3001

```

Output pane

Data Output Explain Messages History

	bill_no integer	pid integer	test_amount integer	medicine_amount integer	operation_amount bigint
1	21001	3001	110	50	50

OK. Unix Ln 8, Col 25, Ch 471 1 row. 153 msec

Give the details of medicines given, tests and operations performed on the patients who have been in hospital in date range – 2012/04/30 to 2017/01/30.

```

select pid, p_name, age, test_report, med_qty, med_id, oid
from Patient natural join Test_Advisory natural join Medicine_Advisory natural join Operations_Advisory
where Admit_From >= Date'2012/04/30' and Admit_To <= Date'2017/01/30'

```

Query - postgres on postgres@localhost:5432 *

SQL Editor Graphical Query Builder

Previous queries

```

select pid, p_name, age, test_report, med_qty, med_id, oid
from Patient natural join Test_Advisory natural join Medicine_Advisory natural join Operations_Advisory
where Admit_From >= Date'2012/04/30' and Admit_To <= Date'2017/01/30'

```

Output pane

Data Output Explain Messages History

	pid integer	p_name character varying	age integer	test_report character varying	med_qty integer	med_id integer	oid integer
1	3001	Rahul	20	Report1	1	6601	9901
2	3002	Sankit	24	Report2	2	6602	9902
3	3004	Chirag	18	Report4	3	6604	9904

OK. Unix Ln 3, Col 78, Ch 235 3 rows. 13 msec

Give the doc_type and Fee of all doctors who have appointments

```
select dtype.*,Fee from Doctor_type natural join ( select Apt.*,D_type from Doctor natural join ( Select Appointment_with.*,Appointment_Date
from Appointment natural join Appointment_with ) as Apt ) as dtype
```

The screenshot shows a PostgreSQL SQL Editor window titled "Query - postgres on postgres@localhost:5432". The SQL Editor contains the following query:

```
select dtype.*,Fee from Doctor_type natural join ( select Apt.*,D_type from Doctor natural join ( Select Appointment_with.*,Ap
from Appointment natural join Appointment_with ) as Apt ) as dtype
```

The Output pane shows the results of the query in a table format:

	appointment_no integer	did integer	appointment_date date	d_type character varying	fee integer
1	3301	8001	2014-03-23	DType01	200
2	3302	8002	2014-04-14	DType02	200
3	3303	8002	2014-05-16	DType02	200
4	3304	8001	2014-02-12	DType01	200
5	3305	8002	2014-08-16	DType02	200
6	3306	8003	2015-12-06	DType03	300
7	3307	8004	2015-11-03	DType04	2000
8	3308	8005	2015-02-12	DType05	200
9	3309	8001	2016-06-28	DType01	200
10	3310	8005	2015-09-18	DType05	200

The status bar at the bottom indicates "OK", "Unix Ln 2, Col 75, Ch 209", "10 rows.", and "61 msec".

Give the details of the Visitor-"Subhash" and PatientID assigned to him

```
select * from Visitor natural join ( select * from to_meet
where PID = 3001 ) as meet
where visitor_name = 'Subhash'
```

Query - postgres on postgres@localhost:5432 *

SQL Editor Graphical Query Builder

Previous queries Delete Delete All

```
select * from Visitor natural join ( select * from to_meet
where PID = 3001 ) as meet
where visitor_name = 'Subhash'
```

Output pane

Data Output Explain Messages History

	visitorid integer	stay_from date	stay_to date	visitor_name character varying	pid integer
1	2301	2015-04-14	2015-04-14	Subhash	3001

OK. Unix Ln 2, Col 27, Ch 86 1 row. 11 msec

Give reports of patients treated by doctor - DID(8001)

*Select * from Reports
where DID = 8001;*

Query - postgres on postgres@localhost:5432 *

SQL Editor Graphical Query Builder

Previous queries Delete Delete All

```
Select * from Reports
where DID = 8001;
```

Output pane

Data Output Explain Messages History

	remarks character varying	report_date date	did integer	pid integer	operation_advisoryid integer
1	Regular check	2015-04-18	8001	3001	8901

OK. Unix Ln 2, Col 26, Ch 41 1 row. 32 msec