

Local Instance x

File Edit View Query Database Server Tools Scripting Help

SQL File 7 Hospital\_AAA\* x administeredtreatment treatment employee treatment administeredtreatment admittedpatient doctor Required\_Queries

Limit to 1000 rows

```

1 /* Required Query Support */
2
3
4 /* List all the patients currently admitted to the hospital */
5
6 • select pid, firstname, lastname from patient
7   where discharged is NULL;
8

```

Result Grid

pid	firstname	lastname
2	Devan	Buggay
3	Zach	White
5	Mina	Edgar
6	Stan	Marsh
7	Eric	Cartman
8	Kyle	Broffovski
9	Kenny	McCormick

Form Editor  
Field Types  
Query Stats

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```

8
9 /* List all patients who have received outpatient services within a given date range. List only
10 patient identification number and name. */
11
12 • select pid, firstname, lastname from patient
13   where type = 'O'; -- "O" represents Outpatient service
14

```

Result Grid

pid	firstname	lastname
5	Mina	Edgar
6	Stan	Marsh
7	Eric	Cartman
8	Kyle	Broffovski
9	Kenny	McCormick

Form Editor  
Field Types  
Query Stats

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```

14
15 /* For a given patient (either patient identification number or name), list all treatments that were
16 administered. Group treatments by admissions. List admissions in descending chronological
17 order, and list treatments in ascending chronological order within each admission. */
18
19 • select patient.pid as "PatientID", treatment.description as "Description"
20   from patient
21   join administeredtreatment using (pid)
22   join treatment using (tid)
23   group by treatment.type
24   order by treatment.type desc;

```

Result Grid

PatientID	Description
5	Medication
0	Abortion

Form Editor

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```

26  /* List the treatments performed at the hospital (to both inpatients and outpatients), in
27  descending order of occurrences. List treatment identification number, name, and total number
28  of occurrences of each treatment. */
29
30  • select tid, description, count(*) as Occurrences
31  from administeredtreatment
32  join Treatment using (tid)
33  group by tid, description
34  order by count(*) desc;

```

Result Grid | Filter Rows: | Exports: | Wrap Cell Content: |

tid	description	Occurrences
005	IV fluid	4
105	Drug Test	4
000	Abortion	3
001	Surgery	3
002	Boob job	3
100	Medication	3
101	Physical Therapy	3
102	Massage	3
003	Biopsy	2
006	Chemotherapy	2
103	Acupuncture	2
106	Crutch	2
007	X-Ray	1
009	Heart Monitor	1
107	Rehabilitation	1
109	Blood Test	1

Result Grid  
Form Editor  
Field Types  
Query Stats

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SQL File 7 Hospital\_AAA\* x administeredtreatment treatment employee treatment administeredtreatment admittedpatient doctor Required\_Queries

Limit to 1000 rows

```

35
36  /* For a given treatment occurrence, list all the hospital employees that were involved. Also
37  include the patient name and the doctor who ordered the treatment. */
38
39  • select treatment.description as "Treatment", employee.category as "Position", employee.lastname as "Doctor Involved", patient.lastname as "Patient"
40  from administeredtreatment
41  join treatment using (tid)
42  join employee using (eid)
43  join patient using (pid)
44  where orderid = '555'; -- orderid can be tweaked!
45

```

Result Grid | Filter Rows: | Exports: | Wrap Cell Content: |

Treatment	Position	Doctor Involved	Patient
Abortion	Admin Doctor	Gregory	Kitaif
Abortion	Nurse	Betty	Kitaif
Abortion	Technician	Super	Kitaif

Result Grid  
Form Editor

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Limit to 1000 rows

```

45
46  /* For a given treatment occurrence, list all the hospital employees that were involved. Also
47  include the patient name and the doctor who ordered the treatment. */
48
49  • select description, count(*) as Occurrence from Treatment
50  left outer join OrderedTreatment using (tid)
51  where eid = '001'; -- The doctor's eid can be tweaked!
52  group by tid, description
53  order by Occurrence desc;
54
55  /* List employees who have been involved in the treatment of every admitted patient. */

```

Result Grid | Filter Rows: | Exports: | Wrap Cell Content: |

description	Occurrence
Surgery	1
Boob job	1

Result Grid  
Form Editor

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SQL File 7 Hospital\_AAA\* administeredtreatment treatment employee treatment administeredtreatment admittedpatient doctor Required\_Queries

Limit to 1000 rows

```

55  /* List employees who have been involved in the treatment of every admitted patient. */
56
57  • select eid, firstname
58      from employee
59      where not exists
60          (select *
61            from treatment
62            where type = 'I' -- 'I' represent admitted patients
63              and not exists
64                  (select *
65                    from administeredtreatment
66                    where administeredtreatment.tid = treatment.tid
67                      and administeredtreatment.eid = employee.eid)); -- The answer makes sense because administrators are a type of employee that ARE NOT involved in treating patients.
68
69

```

Result Grid

eid	firstname
NULL	NULL

Result Grid

Form Editor

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```

69
70  /* List the primary doctors of patients with a high admission rate (at least 4 admissions within a
71  one-year time frame). */
72
73  • select distinct firstname, lastname
74      from doctor
75      join admittedpatient using (eid)
76      where admitted > admitted - interval 1 year
77      group by firstname, lastname
78      having count(*) >= 4;

```

Result Grid

firstname	lastname
David	Gregory
Cuddy	Lisa
Wilson	James
Bailey	Miranda
Sheppard	Derek

Result Grid

Form Editor