

```
cs421=> \d clients
```

```
Table "cs421g24.clients"
```

Column	Type	Modifiers
cid	integer	not null
email	character varying(30)	not null
phone	character varying(20)	not null
address	text	not null
account	character varying(30)	not null

```
Indexes:
```

```
    "clients_pkey" PRIMARY KEY, btree (cid)
```

```
Referenced by:
```

```
TABLE "companies" CONSTRAINT "companies_cid_fkey" FOREIGN KEY (cid) REFERENCES clients(cid)
```

```
TABLE "individuals" CONSTRAINT "individuals_cid_fkey" FOREIGN KEY (cid) REFERENCES clients(cid)
```

```
TABLE "prescriptions" CONSTRAINT "prescriptions_cid_fkey" FOREIGN KEY (cid) REFERENCES clients(cid)
```

```
)
```

```
TABLE "subscriptions" CONSTRAINT "subscriptions_cid_fkey" FOREIGN KEY (cid) REFERENCES clients(cid)
```

```
)
```

```
cs421=> \d companies
```

```
Table "cs421g24.companies"
```

Column	Type	Modifiers
cid	integer	not null
compname	character varying(30)	not null
numemploy	integer	not null

```
Indexes:
```

```
"companies_pkey" PRIMARY KEY, btree (cid)
```

```
Check constraints:
```

```
"companies_numemploy_check" CHECK (numemploy > 0)
```

```
Foreign-key constraints:
```

```
"companies_cid_fkey" FOREIGN KEY (cid) REFERENCES clients(cid)
```

```
cs421=> \d covers
```

```
Table "cs421g24.covers"
```

Column	Type	Modifiers
planid	integer	not null
duid	integer	not null

```
Indexes:
```

```
"covers_pkey" PRIMARY KEY, btree (planid, duid)
```

```
Foreign-key constraints:
```

```
"covers_duid_fkey" FOREIGN KEY (duid) REFERENCES drugs(duid)
```

```
"covers_planid_fkey" FOREIGN KEY (planid) REFERENCES insuranceplans(planid)
```

```
cs421=> \d covers
```

```
Table "cs421g24.covers"
```

```
Column | Type      | Modifiers
```

```
-----+-----+-----
```

```
planid | integer   | not null
```

```
duid   | integer   | not null
```

```
Indexes:
```

```
"covers_pkey" PRIMARY KEY, btree (planid, duid)
```

```
Foreign-key constraints:
```

```
"covers_duid_fkey" FOREIGN KEY (duid) REFERENCES drugs(duid)
```

```
"covers_planid_fkey" FOREIGN KEY (planid) REFERENCES insuranceplans(planid)
```

```
cs421=> \d drugs
```

Table "cs421g24.drugs"		
Column	Type	Modifiers
-----+-----+-----		
duid	integer	not null
dname	character varying(200)	not null
manufacturer	character varying(200)	not null
price	money	not null

```
Indexes:
```

```
    "drugs_pkey" PRIMARY KEY, btree (duid)
```

```
Referenced by:
```

```
    TABLE "covers" CONSTRAINT "covers_duid_fkey" FOREIGN KEY (duid) REFERENCES drugs(duid)
```

```
    TABLE "prescriptioncontents" CONSTRAINT "prescriptioncontents_duid_fkey" FOREIGN KEY (duid) REFERENCES drugs(duid)
```

```
    TABLE "receiptdrugs" CONSTRAINT "receiptdrugs_duid_fkey" FOREIGN KEY (duid) REFERENCES drugs(duid)
```



```
cs421=> \d healthfacilities
```

```
Table "cs421g24.healthfacilities"
```

Column	Type	Modifiers
hid	integer	not null
hname	character varying(30)	not null
address	text	not null
phone	character varying(20)	not null
ftype	text	not null

```
Indexes:
```

```
"healthfacilities_pkey" PRIMARY KEY, btree (hid)
```

```
Referenced by:
```

```
TABLE "worksat" CONSTRAINT "worksat_hid_fkey" FOREIGN KEY (hid) REFERENCES healthfacilities(hid)
```

```
cs421=> \d healthpractitioners
```

```
Table "cs421g24.healthpractitioners"
```

Column	Type	Modifiers
did	bigint	not null
fname	character varying(30)	not null
lname	character varying(30)	not null
phone	character varying(20)	not null
email	character varying(60)	not null
specialization	character varying(60)	not null

```
Indexes:
```

```
    "healthpractitioner_pkey" PRIMARY KEY, btree (did)
```

```
Referenced by:
```

```
    TABLE "pharmacists" CONSTRAINT "pharmacists_did_fkey" FOREIGN KEY (did) REFERENCES healthpractitioners(did)
```

```
    TABLE "prescriptions" CONSTRAINT "prescriptions_did_fkey" FOREIGN KEY (did) REFERENCES healthpractitioners(did)
```

```
    TABLE "worksat" CONSTRAINT "worksat_did_fkey" FOREIGN KEY (did) REFERENCES healthpractitioners(did)
```

```
cs421=> \d individuals;
```

```
Table "cs421g24.individuals"
```

Column	Type	Modifiers
cid	integer	not null
fname	character varying(30)	not null
lname	character varying(30)	not null
birthdate	date	not null
gender	gender	

```
Indexes:
```

```
    "individuals_pkey" PRIMARY KEY, btree (cid)
```

```
Check constraints:
```

```
    "individuals_cid_check" CHECK (cid > 0)
```

```
Foreign-key constraints:
```

```
    "individuals_cid_fkey" FOREIGN KEY (cid) REFERENCES clients(cid)
```

```
cs421=> \d insuranceclaims
```

```
Table "cs421g24.insuranceclaims"
```

Column	Type	Modifiers
icid	integer	not null
date	date	not null
rid	integer	not null

```
Indexes:
```

```
    "insuranceclaims_pkey" PRIMARY KEY, btree (icid)
```

```
Foreign-key constraints:
```

```
    "insuranceclaims_rid_fkey" FOREIGN KEY (rid) REFERENCES receipts(rid)
```

```
Referenced by:
```

```
    TABLE "reimbursed" CONSTRAINT "reimbursed_icid_fkey" FOREIGN KEY (icid) REFERENCES insuranceclaims (icid)
```



```
cs421=> \d insuranceplans
```

```
Table "cs421g24.insuranceplans"
```

Column	Type	Modifiers
planid	integer	not null
coverage	text	not null
price	money	not null
pname	character varying(30)	not null

```
Indexes:
```

```
    "insuranceplans_pkey" PRIMARY KEY, btree (planid)
```

```
Referenced by:
```

```
    TABLE "covers" CONSTRAINT "covers_planid_fkey" FOREIGN KEY (planid) REFERENCES insuranceplans(planid)
```

```
    TABLE "subscriptions" CONSTRAINT "subscriptions_planid_fkey" FOREIGN KEY (planid) REFERENCES insuranceplans(planid)
```

```
cs421=> \d pharmacists
Table "cs421g24.pharmacists"
 Column | Type   | Modifiers
-----+-----+-----
 did    | bigint | not null
Indexes:
    "pharmacists_pkey" PRIMARY KEY, btree (did)
Foreign-key constraints:
    "pharmacists_did_fkey" FOREIGN KEY (did) REFERENCES healthpractitioners(did)
Referenced by:
    TABLE "receipts" CONSTRAINT "receipts_pid_fkey" FOREIGN KEY (did) REFERENCES pharmacists(did)
```

```
cs421=> \d prescriptioncontents
Table "cs421g24.prescriptioncontents"
```

Column	Type	Modifiers
pid	integer	not null
duid	integer	not null
quantity	integer	not null
refills	integer	not null

```
Indexes:
```

```
    "prescriptioncontents_pkey" PRIMARY KEY, btree (pid, duid)
```

```
Foreign-key constraints:
```

```
    "prescriptioncontents_duid_fkey" FOREIGN KEY (duid) REFERENCES drugs(duid)
```

```
    "prescriptioncontents_pid_fkey" FOREIGN KEY (pid) REFERENCES prescriptions(pid)
```

```
cs421=> \d prescriptions
```

```
Table "cs421g24.prescriptions"
```

Column	Type	Modifiers
pid	integer	not null
cid	integer	
did	bigint	
startdate	date	not null
enddate	date	not null

```
Indexes:
```

```
    "prescriptions_pkey" PRIMARY KEY, btree (pid)
```

```
Foreign-key constraints:
```

```
    "prescriptions_cid_fkey" FOREIGN KEY (cid) REFERENCES clients(cid)
```

```
    "prescriptions_did_fkey" FOREIGN KEY (did) REFERENCES healthpractitioners(did)
```

```
Referenced by:
```

```
    TABLE "prescriptioncontents" CONSTRAINT "prescriptioncontents_pid_fkey" FOREIGN KEY (pid) REFERENCES prescriptions(pid)
```

```
    TABLE "receipts" CONSTRAINT "receipts_prescriptions_fk" FOREIGN KEY (pid) REFERENCES prescriptions(pid)
```



```
cs421=> \d receiptdrugs
```

```
Table "cs421g24.receiptdrugs"
```

Column	Type	Modifiers
rid	integer	not null
duid	integer	not null
quantity	integer	not null

```
Indexes:
```

```
    "receiptdrugs_pkey" PRIMARY KEY, btree (rid, duid)
```

```
Foreign-key constraints:
```

```
    "receiptdrugs_duid_fkey" FOREIGN KEY (duid) REFERENCES drugs(duid)
```

```
    "receiptdrugs_rid_fkey" FOREIGN KEY (rid) REFERENCES receipts(rid)
```

```

cs421=> \d receipts
      Table "cs421g24.receipts"
      Column | Type | Modifiers
      -----+-----+-----
      rid    | integer | not null
      did    | bigint | not null
      date   | date   | not null
      totalprice | money | not null
      pid    | integer | not null
Indexes:
    "receipts_pkey" PRIMARY KEY, btree (rid)
Foreign-key constraints:
    "receipts_pid_fkey" FOREIGN KEY (did) REFERENCES pharmacists(did)
    "receipts_prescriptions_fk" FOREIGN KEY (pid) REFERENCES prescriptions(pid)
Referenced by:
    TABLE "insuranceclaims" CONSTRAINT "insuranceclaims_rid_fkey" FOREIGN KEY (rid) REFERENCES receipts(rid)
    TABLE "receiptdrugs" CONSTRAINT "receiptdrugs_rid_fkey" FOREIGN KEY (rid) REFERENCES receipts(rid)

```

```
cs421=> \d reimbursed
```

```
Table "cs421g24.reimbursed"
```

Column	Type	Modifiers
subid	integer	
icid	integer	not null
amount	money	not null
data	date	not null

```
Indexes:
```

```
    "reimbursed_pkey" PRIMARY KEY, btree (icid)
```

```
Foreign-key constraints:
```

```
    "reimbursed_icid_fkey" FOREIGN KEY (icid) REFERENCES insuranceclaims(icid)
```

```
    "reimbursed_subid_fkey" FOREIGN KEY (subid) REFERENCES subscriptions(subid)
```

cs421=> \d subscriptions;

Table "cs421g24.subscriptions"		
Column	Type	Modifiers
cid	integer	
planid	integer	
startdate	date	not null
enddate	date	not null
subid	integer	not null default nextval('subscriptions_serialized_seq'::regclass)

Indexes:

"subscriptions_pk" PRIMARY KEY, btree (subid)

Foreign-key constraints:

"subscriptions_cid_fkey" FOREIGN KEY (cid) REFERENCES clients(cid)

"subscriptions_planid_fkey" FOREIGN KEY (planid) REFERENCES insuranceplans(planid)

Referenced by:

TABLE "reimbursed" CONSTRAINT "reimbursed_subscriptions_fk" FOREIGN KEY (subid) REFERENCES subscriptions(subid)


```
cs421=> \d worksat
```

```
Table "cs421g24.worksat"
```

Column	Type	Modifiers
did	bigint	not null
hid	integer	not null

```
Indexes:
```

```
"worksat_pkey" PRIMARY KEY, btree (did, hid)
```

```
Foreign-key constraints:
```

```
"worksat_did_fkey" FOREIGN KEY (did) REFERENCES healthpractitioners(did)
```

```
"worksat_hid_fkey" FOREIGN KEY (hid) REFERENCES healthfacilities(hid)
```