

```
cs421=> SELECT cid
cs421-> FROM clients
cs421-> EXCEPT SELECT cid
cs421-> FROM subscriptions S
cs421-> WHERE S.enddate > '2018-01-01'
cs421-> LIMIT 50;
```

```
cid
-----
43
11
80
16
39
54
3
47
61
96
67
87
46
99
48
28
83
36
94
15
77
4
30
89
50
73
95
40
56
53
62
19
57
51
92
23
31
35
65
52
76
69
44
37
85
34
82
81
25
32
(50 rows)
```

```
cs421=> SELECT I.gender,AVG(R.totalprice::NUMERIC)
cs421-> FROM receipts R, prescriptions P, individuals I
cs421-> WHERE R.pid = P.Pid AND P.cid = I.cid
cs421-> GROUP BY I.gender;
```

gender	avg
Male	378.020000000000000000
Female	197.915000000000000000

(2 rows)

```
cs421=> SELECT I.gender,AVG(P.price::NUMERIC)
cs421-> FROM subscriptions S, individuals I, insuranceplans P
cs421-> WHERE S.planid = P.planid AND I.cid = S.cid
cs421-> GROUP BY I.gender;
```

gender	avg
Other	213.000000000000000000
Male	909.000000000000000000
Female	638.000000000000000000

(3 rows)

```
/* Get adult individuals who have been reimbursed more than 20$ */
```

```
SELECT
```

```
    DISTINCT(I.birthdate),  
    I.cid,  
    SUM( Re.amount::NUMERIC )
```

```
FROM
```

```
    insuranceclaims IC,  
    receipts R,  
    individuals I,  
    reimbursed Re,  
    prescriptions P
```

```
WHERE
```

```
    IC.rid = R.rid  
    AND Re.icid = IC.icid  
    AND IC.rid = R.rid  
    AND R.pid = P.pid  
    AND P.cid = I.cid  
    AND I.cid IN(  
        SELECT  
            cid  
        FROM  
            individuals  
        WHERE  
            age(current_date, I.birthdate) >= '18 years'  
    )
```

```
GROUP BY
```

```
    I.cid
```

```
HAVING
```

```
    SUM( Re.amount::NUMERIC ) > 20
```

```
LIMIT 50;
```

```
birthdate | cid | sum
-----+-----+-----
1958-05-01 | 51 | 60.00
1970-04-19 | 66 | 100.00
1971-12-06 | 93 | 60.00
(3 rows)
```