```
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 pid, I.cid, fname, lname
cs421-> FROM prescriptions P, individuals I
cs421-> WHERE P.cid = I.cid AND I.gender = 'Female'
cs421-> --GROUP BY gender
cs421-> ORDER BY pid
cs421-> LIMIT 50;
 pid | cid |   fname    |    lname
-----+-----+------------+------------
   3 |  86 | Henrieta   | MacIan
   9 |  76 | Rhodie     | Brownsworth
  10 |  92 | Elvina     | Oliveras
  11 |  89 | Gunilla    | Nesbeth
  12 |  84 | Chiarra    | Theyer
  19 |  99 | Ernesta    | Quest
  20 |  93 | Angelita   | McGrale
  23 |  85 | Lona       | Benning
  24 |  97 | Gennie     | Cothey
  27 |  94 | Chrystel   | Borley
  51 |  91 | Fionna     | Warr
  52 |  80 | Cate       | Di Carlo
  55 |  87 | Lanita     | Gallatly
  59 |  96 | Christina  | Beric
  62 |  74 | Ashia      | Downie
  66 |  79 | Trenna     | Philippson
  67 |  71 | Jamie      | Aylesbury
  68 |  90 | Cassandra  | Ferron
  69 |  82 | Jemmie     | Lechmere
  73 |  98 | Erminie    | Bradwell
  76 |  83 | Lexie      | Cubley
  80 |  95 | Anjanette  | Abramin
  81 |  72 | Desdemona  | Bourgour
  86 |  77 | Helge      | Naldrett
  89 |  78 | Eleanora   | Pelfer
  92 |  88 | Terri      | Gotfrey
  96 |  81 | Mathilde   | Mirando
  97 |  73 | Orella     | Knatt
(28 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   | 378.0200000000000000
 Female | 197.9150000000000000
(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  | 213.0000000000000000
 Male   | 909.0000000000000000
 Female | 638.0000000000000000
(3 rows)
```

```sql
/* 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)
```