SQL HW 1

CMSPOP

1. SELECT state, race, sex FROM cmspop WHERE state= 'CA' AND race LIKE 'cauca%' AND sex= 'female';

state | race | sex

-------+------+-----

(0 rows)

2. SELECT COUNT(state) FROM cmspop WHERE state='WA' AND sex='male';

count

 19909
(1 row)

```
medicare=# SELECT COUNT(state) FROM cmspop WHERE state='WA' AND sex='male';
 count
-------
 19909
(1 row)
```

3. SELECT id FROM cmspop WHERE id LIKE '%000%' OR id LIKE '%34%';
        id

  00013D2EFD8E45D1
  00016F745862898F
  0001FDD721E223DC
  00021CA6FF03E670
  00024B3D2352D2D0

SELECT * FROM cmspop WHERE id LIKE '%000%' OR id LIKE '%34%';
id | dob | dod | sex | race | state | county | alz_rel_sen | heart_fail | cancer | depression

------------------+------------+------------+--------+----------+-------+--------+-------------+------------+--------+------------
 00013D2EFD8E45D1 | 1923-05-01 | | male | white | MO | 950 | f | t | f | f
 00016F745862898F | 1943-01-01 | | male | white | PA | 230 | t | t | f | f
 0001FDD721E223DC | 1936-09-01 | | female | white | PA | 280 | f | f | f | f
 00021CA6FF03E670 | 1941-06-01 | | male | hispanic | CO | 290 | f | f | f | f
 00024B3D2352D2D0 | 1936-08-01 | | male | white | WI | 590 | f | f | f | f

```
medicare=# SELECT * FROM cmspop WHERE id LIKE '%000%' OR id LIKE '%34%';
       id        |    dob     |    dod     |   sex  |   race   | state | county | alz_rel_sen | heart_fail | cancer | depression
-----------------+------------+------------+--------+----------+-------+--------+-------------+------------+--------+------------
 00013D2EFD8E45D1 | 1923-05-01 |            | male   | white    | MO    |    950 | f           | t          | f      | f
 00016F745862898F | 1943-01-01 |            | male   | white    | PA    |    230 | t           | t          | f      | f
 0001FDD721E223DC | 1936-09-01 |            | female | white    | PA    |    280 | f           | f          | f      | f
 00021CA6FF03E670 | 1941-06-01 |            | male   | hispanic | CO    |    290 | f           | f          | f      | f
 00024B3D2352D2D0 | 1936-08-01 |            | male   | white    | WI    |    590 | f           | f          | f      | f
 0002DAE1C81CC70D | 1943-10-01 |            | male   | black    | NY    |    400 | f           | f          | f      | f
```

4. SELECT * FROM cmspop WHERE dod IS NOT NULL ORDER BY dob asc;

```
^Cmedicare=# select * from cmspop where dod is not null order by dob asc;
       id        |    dob     |    dod     |   sex  |   race   | state | county | alz_rel_sen | heart_fail | cancer | d
epression
-----------------+------------+------------+--------+----------+-------+--------+-------------+------------+--------+--
----------
 AA3B49AB7C9C5294 | 1909-01-01 | 2010-05-01 | male   | white    | FL    |    340 | f           | f          | f      | f
```

CMSCLAIMS

1. SELECT carrier_reimb / bene_resp AS ratio FROM cmsclaims WHERE bene_resp <> 0 ORDER BY ratio DESC;

   ratio

      155

      127

      116

      115

      109

      109

```
medicare=# select carrier_reimb / bene_resp as ratio from cmsclaims where bene_resp <> 0 order by ratio desc;
 ratio
-------
   155
   127
   116
   115
   109
   109
```

2. SELECT * FROM cmsclaims ORDER BY bene_resp DESC;

   id | hmo_mo | carrier_reimb | bene_resp

   ------------------+--------+---------------+-----------

   723D5CD755CD0FED | 12 | 16530 | 3590

   DA3C74535FE06AEB | 0 | 7340 | 3190

   3FB436607D147DF9 | 12 | 10310 | 3150

   AE3A4CFF71BCCA6A | 0 | 13040 | 3110

```
^Cmedicare=# SELECT * FROM cmsclaims ORDER BY bene_resp DESC;
       id         | hmo_mo | carrier_reimb | bene_resp
------------------+--------+---------------+-----------
 723D5CD755CD0FED |     12 |         16530 |      3590
 DA3C74535FE06AEB |      0 |          7340 |      3190
 3FB436607D147DF9 |     12 |         10310 |      3150
 AE3A4CFF71BCCA6A |      0 |         13040 |      3110
```

3. SELECT bene_resp / carrier_reimb AS ratio FROM cmsclaims WHERE carrier_reimb <> 0 ORDER BY ratio DESC;

```
^Cmedicare=# select bene_resp / carrier_reimb as ratio from cmsclaims where carrier_reimb <> 0 order by ratio desc;
 ratio
-------
    23
    22
    19
    19
    19
```

4. SELECT COUNT (id) FROM cmsclaims WHERE bene_resp = 0;

```
medicare=# select count (id) from cmsclaims where bene_resp = 0;
 count
--------
 604130
(1 row)
```

5. SELECT AVG (carrier_reimb - bene_resp) FROM cmsclaims;

```
medicare=# select avg (carrier_reimb - bene_resp) from cmsclaims;
         avg
---------------------
 608.4206540026198418
(1 row)
```