

Random Queries for Longitudinal Data

===== REAL VS SYNTHETIC VERSION 1 STARTS =====

SQL statement - real:

```
SELECT sample_r_b.PL_UIC20, sample_r_b.HOSPBIRTH, sample_r_b.PL_RUCC2, sample_r_b.Homeless, sample_r_b.HISPANIC,
sample_r_b.DIED, sample_r_b.PL_NCHS2, sample_r_b.PL_RUCA4, sample_r_l.DX1,COUNT(*) FROM sample_r_b JOIN sample_r_l ON
sample_r_b.PNUM_R = sample_r_l.PNUM_R WHERE ( NOT sample_r_l.HCUP_ED NOT BETWEEN 4.0 AND 4.0 AND
sample_r_b.HOSPBIRTH IN ('0','0','0','0') OR sample_r_b.HISPANIC <> '1' AND sample_r_l.DX1 NOT IN ('V5789','3383','85226','1983',
'28803') AND NOT sample_r_b.PL_UIC20 <> '1' AND sample_r_l.AWEEKEND NOT BETWEEN 1.0 AND 1.0 AND sample_r_l.NDX <> 11.0
AND NOT sample_r_b.PL_RUCA4 IN ('1','1','1','1','1') AND sample_r_b.PL_RUCC2 IN ('1','1','2','1','1') OR sample_r_l.MDC NOT
BETWEEN 5.0 AND 5.0 AND sample_r_l.LOS < 1.0 AND NOT sample_r_b.RACE LIKE '4' AND NOT sample_r_b.PL_UR_CA NOT IN ('1',
'3','2','2','1') AND NOT sample_r_b.PL_NCHS2 = '2' AND sample_r_b.FEMALE <> '1' ) GROUP BY sample_r_b.PL_UIC20,
sample_r_b.HOSPBIRTH, sample_r_b.PL_RUCC2, sample_r_b.Homeless, sample_r_b.HISPANIC, sample_r_b.DIED, sample_r_b.PL_NCHS2,
sample_r_b.PL_RUCA4, sample_r_l.DX1
```

SQL result - real:

	PL_UIC20	HOSPBIRTH	PL_RUCC2	Homeless	HISPANIC	DIED	PL_NCHS2	PL_RUCA4	DX1	COUNT(*)
0	1	0	1	0	1	0	1	1	1100	1
1	1	0	1	0	1	0	1	1	1119	1
2	1	0	1	0	1	0	1	1	1120	6
3	1	0	1	0	1	0	1	1	1121	0
4	1	0	1	0	1	0	1	1	1122	37

Number of returned records: 35592

SQL statement - syn:

```
SELECT sample_s_b_01.PL_UIC20, sample_s_b_01.HOSPBIRTH, sample_s_b_01.PL_RUCC2, sample_s_b_01.Homeless,
sample_s_b_01.HISPANIC, sample_s_b_01.DIED, sample_s_b_01.PL_NCHS2, sample_s_b_01.PL_RUCA4, sample_s_l_01.DX1,COUNT(*) FROM sample_s_b_01 JOIN sample_s_l_01 ON sample_s_b_01.PNUM_R = sample_s_l_01.PNUM_R WHERE ( NOT
sample_s_l_01.HCUP_ED NOT BETWEEN 4.0 AND 4.0 AND sample_s_b_01.HOSPBIRTH IN ('0','0','0','0','0') OR
sample_s_b_01.HISPANIC <> '1' AND sample_s_l_01.DX1 NOT IN ('V5789','3383','85226','1983','28803') AND NOT
sample_s_b_01.PL_UIC20 <> '1' AND sample_s_l_01.AWEEKEND NOT BETWEEN 1.0 AND 1.0 AND sample_s_l_01.NDX <> 11.0 AND
NOT sample_s_b_01.PL_RUCA4 IN ('1','1','1','1','1') AND sample_s_b_01.PL_RUCC2 IN ('1','1','2','1','1') OR sample_s_l_01.MDC NOT
BETWEEN 5.0 AND 5.0 AND sample_s_l_01.LOS < 1.0 AND NOT sample_s_b_01.RACE LIKE '4' AND NOT sample_s_b_01.PL_UR_CA NOT IN ('1',
'3','2','2','1') AND NOT sample_s_b_01.PL_NCHS2 = '2' AND sample_s_b_01.FEMALE <> '1' ) GROUP BY sample_s_b_01.PL_UIC20,
sample_s_b_01.HOSPBIRTH, sample_s_b_01.PL_RUCC2, sample_s_b_01.Homeless, sample_s_b_01.HISPANIC,
sample_s_b_01.DIED, sample_s_b_01.PL_NCHS2, sample_s_b_01.PL_RUCA4, sample_s_l_01.DX1
```

SQL result - syn:

	PL_UIC20	HOSPBIRTH	PL_RUCC2	Homeless	HISPANIC	DIED	PL_NCHS2	PL_RUCA4	DX1	COUNT(*)
0	1	0	1	0	1	0	1	1	1100	1
1	1	0	1	0	1	0	1	1	1119	0
2	1	0	1	0	1	0	1	1	1120	4
3	1	0	1	0	1	0	1	1	1121	1
4	1	0	1	0	1	0	1	1	1122	23

Number of returned records: 39051

Hellinger Distance = 0.228

SQL statement - real:

```
SELECT sample_r_b.PL_CBSA, sample_r_b.PL_NCHS2, sample_r_b.PL_UIC20, sample_r_b.RACE, sample_r_l.ASCHED,
sample_r_b.PL_RUCC2, sample_r_b.PL_RUCA4, sample_r_b.DIED, sample_r_b.HISPANIC, sample_r_b.NEOMAT, sample_r_b.DNR,
sample_r_b.PL_UR_CA, sample_r_b.Homeless, sample_r_l.DX1, sample_r_b.MEDINCST,COUNT(*) FROM sample_r_b JOIN sample_r_l ON
sample_r_b.PNUM_R = sample_r_l.PNUM_R AND ( sample_r_b.PL_CBSA <> '2' AND sample_r_b.FEMALE = '0' AND
sample_r_l.AWEEKEND <= 1.0 AND sample_r_b.MEDINCST <> '3' OR NOT sample_r_l.DRGVER <> 24.0 AND sample_r_b.PL_UIC20 = '1'
OR NOT sample_r_l.NECODE BETWEEN 2.0 AND 2.0 AND sample_r_l.TOTCHG BETWEEN 20338.0 AND 28477.0 AND sample_r_b.AGE
< 78.0 AND NOT sample_r_b.PL_RUCC2 <> '1' AND sample_r_b.PL_UR_CA IN ('1','1','1','1','2') AND sample_r_b.PL_RUCA4 IN ('1','1','1',
'1','1') AND NOT sample_r_l.NDX < 8.0 AND sample_r_l.HCUP_ED BETWEEN 4.0 AND 4.0 AND sample_r_b.HISPANIC NOT IN ('2','2',
'2','1','2') AND sample_r_b.PL_NCHS2 <> '1' AND sample_r_b.DIED <> '0' AND sample_r_b.HOSPBIRTH = '0' AND NOT sample_r_b.RACE
<> '1' AND sample_r_l.MDC = 11.0 AND NOT sample_r_l.DX1 LIKE '49121' AND sample_r_l.NPR NOT BETWEEN 9.0 AND 9.0 ) GROUP
BY sample_r_b.PL_CBSA, sample_r_b.PL_NCHS2, sample_r_b.PL_UIC20, sample_r_b.RACE, sample_r_l.ASCHED, sample_r_b.PL_RUCC2,
sample_r_b.PL_RUCA4, sample_r_b.DIED, sample_r_b.HISPANIC, sample_r_b.NEOMAT, sample_r_b.DNR, sample_r_b.PL_UR_CA,
sample_r_b.Homeless, sample_r_l.DX1, sample_r_b.MEDINCST
```

SQL result - real:

PL_CBSA	PL_NCHS2	PL_UIC20	RACE	ASCHED	PL_RUCC2	PL_RUCA4	DIED	HISPANIC	NEOMAT	DNR	PL_UR_CA	Homeless	DX1	MEDINCST	COUNT(*)	
0	0	6	10	1	0	9	4	0	2	0	0	4	0	29643	2	1
1	0	6	10	1	0	9	4	0	2	0	0	4	0	29680	2	1
2	0	6	10	1	0	9	4	0	2	0	0	4	0	389	2	0
3	0	6	10	1	0	9	4	0	2	0	0	4	0	41401	2	1
4	0	6	10	1	0	9	4	0	2	0	0	4	0	42830	1	0

Number of returned records: 84625

SQL statement - syn:

```

SELECT sample_s_b_01.PL_CBSA, sample_s_b_01.PL_NCHS2, sample_s_b_01.PL_UIC20, sample_s_b_01.RACE, sample_s_b_01.ASCHED,
sample_s_b_01.PL_RUCC2, sample_s_b_01.PL_RUCA4, sample_s_b_01.DIED, sample_s_b_01.HISPANIC, sample_s_b_01.NEOMAT,
sample_s_b_01.DNR, sample_s_b_01.PL_UR_CA, sample_s_b_01.Homeless, sample_s_b_01.DX1, sample_s_b_01.MEDINCST,COUNT(*)
FROM sample_s_b_01 JOIN sample_s_b_01 ON sample_s_b_01.PNUM_R = sample_s_b_01.PNUM_R WHERE ( sample_s_b_01.PL_CBSA <> '2' AND sample_s_b_01.FEMALE = '0' AND sample_s_b_01.AWEEKEND <= 1.0 AND sample_s_b_01.MEDINCST <> '3' OR NOT
sample_s_b_01.DRGVER <> 24.0 AND sample_s_b_01.PL_UIC20 = '1' OR NOT sample_s_b_01.NECODE BETWEEN 2.0 AND 2.0 AND
sample_s_b_01.TOTCHG BETWEEN 20338.0 AND 28477.0 AND sample_s_b_01.AGE <= 78.0 AND NOT sample_s_b_01.PL_RUCC2 <> '1'
AND sample_s_b_01.PL_UR_CA IN ('1', '1', '1', '1', '2') AND sample_s_b_01.PL_RUCA4 IN ('1', '1', '1', '1', '1') AND NOT sample_s_b_01.NDX
< 8.0 AND sample_s_b_01.HCUP_ED BETWEEN 4.0 AND 4.0 AND sample_s_b_01.HISPANIC NOT IN ('2', '2', '2', '1', '2') AND
sample_s_b_01.PL_NCHS2 <> '1' AND sample_s_b_01.DIED <> '0' AND sample_s_b_01.HOSPBIRTH = '0' AND NOT sample_s_b_01.RACE
<> '1' AND sample_s_b_01.MDC = 11.0 AND NOT sample_s_b_01.DX1 LIKE '49121' AND sample_s_b_01.NPR NOT BETWEEN 9.0 AND 9.0
) GROUP BY sample_s_b_01.PL_CBSA, sample_s_b_01.PL_NCHS2, sample_s_b_01.PL_UIC20, sample_s_b_01.RACE,
sample_s_b_01.ASCHED, sample_s_b_01.PL_RUCC2, sample_s_b_01.PL_RUCA4, sample_s_b_01.DIED, sample_s_b_01.HISPANIC,
sample_s_b_01.NEOMAT, sample_s_b_01.DNR, sample_s_b_01.PL_UR_CA, sample_s_b_01.Homeless, sample_s_b_01.DX1,
sample_s_b_01.MEDINCST

```

SQL result - syn:

PL_CBSA	PL_NCHS2	PL_UIC20	RACE	ASCHED	PL_RUCC2	PL_RUCA4	DIED	HISPANIC	NEOMAT	DNR	PL_UR_CA	Homeless	DX1	MEDINCST	COUNT(*)	
0	0	6	10	1	0	9	4	0	2	0	0	4	0	29643	2	0
1	0	6	10	1	0	9	4	0	2	0	0	4	0	29680	2	0
2	0	6	10	1	0	9	4	0	2	0	0	4	0	389	2	1
3	0	6	10	1	0	9	4	0	2	0	0	4	0	41401	2	0
4	0	6	10	1	0	9	4	0	2	0	0	4	0	42830	1	1

Number of returned records: 104313

Hellinger Distance = 0.433

SQL statement - real:

```

SELECT sample_r_b.HOSPBIRTH, sample_r_b.PL_UR_CA, sample_r_b.FEMALE, sample_r_b.MEDINCST, sample_r_b.PL_NCHS2
,COUNT(*) FROM sample_r_b JOIN sample_r_l ON sample_r_b.PNUM_R = sample_r_l.PNUM_R AND ( sample_r_b.Homeless <> '0' AND
sample_r_l.Date <> 2.0 AND sample_r_l.DRGVER > 24.0 AND NOT sample_r_l.NDX >= 6.0 AND sample_r_b.PL_NCHS2 NOT LIKE '1'
AND sample_r_l.NPR = 1.0 AND sample_r_l.AWEEKEND >= 1.0 AND NOT sample_r_b.PL_RUCC2 = '1' AND sample_r_b.PL_CBSA <> '2'
AND sample_r_b.MEDINCST <> '1' AND sample_r_b.PL_UR_CA <> '1' AND sample_r_l.DX1 NOT IN ('V5811', '6110', 'V5789', 'V571',
'29620') OR sample_r_b.HISPANIC NOT IN ('1', '1', '1', '2', '2') AND NOT sample_r_l.PROCTYPE = 1.0 AND sample_r_l.HCUP_ED
BETWEEN 4.0 AND 4.0 AND sample_r_b.AGE <= 61.0 AND NOT sample_r_l.TOTCHG = 51241.0 AND sample_r_b.HOSPBIRTH IN ('0', '0',
'0', '0', '0') AND sample_r_l.LOS BETWEEN 2.0 AND 6.0 AND sample_r_l.NECODE <= 3.0 AND sample_r_l.MDC = 4.0 OR sample_r_b.DNR
LIKE '0' AND NOT sample_r_l.ASCHED IN ('0', '0', '1', '1', '0') AND NOT sample_r_b.RACE NOT IN ('1', '3', '1', '1', '1') AND
sample_r_b.PL_RUCA4 = '1' AND NOT sample_r_b.PL_UIC20 NOT IN ('1', '1', '1', '2', '1') AND sample_r_b.NEOMAT NOT LIKE '0' ) GROUP
BY sample_r_b.HOSPBIRTH, sample_r_b.PL_UR_CA, sample_r_b.FEMALE, sample_r_b.MEDINCST, sample_r_b.PL_NCHS2

```

SQL result - real:

HOSPBIRTH	PL_UR_CA	FEMALE	MEDINCST	PL_NCHS2	COUNT(*)
0	0	1	1	1	0
1	0	1	2	1	0
2	0	1	0	2	0
3	0	1	0	3	1
4	0	1	1	1	0

Number of returned records: 6

SQL statement - syn:

```

SELECT sample_s_b_01.HOSPBIRTH, sample_s_b_01.PL_UR_CA, sample_s_b_01.FEMALE, sample_s_b_01.MEDINCST,
sample_s_b_01.PL_NCHS2 ,COUNT(*) FROM sample_s_b_01 JOIN sample_s_b_01 ON sample_s_b_01.PNUM_R = sample_s_b_01.PNUM_R
AND ( sample_s_b_01.Homeless <> '0' AND sample_s_b_01.Date <> 2.0 AND sample_s_b_01.DRGVER > 24.0 AND NOT sample_s_b_01.NDX
>= 6.0 AND sample_s_b_01.PL_NCHS2 NOT LIKE '1' AND sample_s_b_01.NPR = 1.0 AND sample_s_b_01.AWEEKEND >= 1.0 AND NOT

```

```
sample_s_b_01.PL_RUCC2 = '1' AND sample_s_b_01.PL_CBSA <> '2' AND sample_s_b_01.MEDINCST <> '1' AND
sample_s_b_01.PL_UR_CA <> '1' AND sample_s_l_01.DX1 NOT IN ('V5811', '6110', 'V5789', 'V571', '29620') OR sample_s_b_01.HISPANIC
NOT IN ('1', '1', '1', '2', '2') AND NOT sample_s_l_01.PROCTYPE = 1.0 AND sample_s_l_01.HCUP_ED BETWEEN 4.0 AND 4.0 AND
sample_s_b_01.AGE <= 61.0 AND NOT sample_s_l_01.TOTCHG = 51241.0 AND sample_s_b_01.HOSPBRTH IN ('0', '0', '0', '0', '0') AND
sample_s_l_01.LOS BETWEEN 2.0 AND 6.0 AND sample_s_l_01.NECODE <= 3.0 AND sample_s_l_01.MDC = 4.0 OR sample_s_b_01.DNR
LIKE '0' AND NOT sample_s_l_01.ASCHED IN ('0', '0', '1', '1', '0') AND NOT sample_s_b_01.RACE NOT IN ('1', '3', '1', '1', '1') AND
sample_s_b_01.PL_RUCA4 = '1' AND NOT sample_s_b_01.PL_UIC20 NOT IN ('1', '1', '1', '2', '1') AND sample_s_b_01.NEOMAT NOT LIKE
'0') GROUP BY sample_s_b_01.HOSPBRTH, sample_s_b_01.PL_UR_CA, sample_s_b_01.FEMALE, sample_s_b_01.MEDINCST,
sample_s_b_01.PL_NCHS2
```

SQL result - syn:

HOSPBRTH	PL_UR_CA	FEMALE	MEDINCST	PL_NCHS2	COUNT(*)
0	0	1	0	1	1
1	0	1	0	2	1
2	0	1	0	2	2
3	0	1	0	3	1
4	0	1	1	1	5

Number of returned records: 12

Hellinger Distance = 0.891

SQL statement - real:

```
SELECT sample_r_b.HISPANIC, sample_r_b.FEMALE ,COUNT(*) FROM sample_r_b JOIN sample_r_l ON sample_r_b.PNUM_R =
sample_r_l.PNUM_R AND ( NOT sample_r_b.PL_RUCA4 LIKE '1' AND sample_r_b.DIED = '0' AND NOT sample_r_l.PROCTYPE > 1.0
AND sample_r_b.PL_CBSA = '2' AND sample_r_l.Date = 5.0 OR NOT sample_r_b.PL_NCHS2 <> '1' AND sample_r_l.DRGVER NOT
BETWEEN 24.0 AND 24.0 AND sample_r_b.NEOMAT = '0' AND sample_r_b.PL_UIC20 <> '2' AND sample_r_l.MDC < 23.0 AND
sample_r_l.ASCHED <> '0' AND sample_r_l.TOTCHG = 129029.0 AND sample_r_b.HISPANIC = '2' AND NOT sample_r_l.HCUP_ED NOT
BETWEEN 4.0 AND 4.0 AND sample_r_b.PL_UR_CA = '1' AND sample_r_b.FEMALE NOT LIKE '0' AND sample_r_l.NDX <= 13.0 AND
sample_r_b.HOSPBRTH <> '0' AND NOT sample_r_b.AGE BETWEEN 22.0 AND 75.0 OR NOT sample_r_b.DNR = '0' OR NOT
sample_r_b.PL_RUCC2 IN ('1', '1', '1', '1', '1') AND sample_r_b.Homeless <> '0' AND sample_r_l.DX1 NOT IN ('V5789', '42781', '7071', '7827',
'41041') AND sample_r_b.MEDINCST NOT IN ('2', '1', '1', '2', '1') AND sample_r_l.NECODE BETWEEN 2.0 AND 2.0 ) GROUP BY
sample_r_b.HISPANIC, sample_r_b.FEMALE
```

SQL result - real:

HISPANIC	FEMALE	COUNT(*)
0	1	0
1	1	882
2	2	0
3	2	10040
4	3	0
		24

Number of returned records: 9

SQL statement - syn:

```
SELECT sample_s_b_01.HISPANIC, sample_s_b_01.FEMALE ,COUNT(*) FROM sample_s_b_01 JOIN sample_s_l_01 ON
sample_s_b_01.PNUM_R = sample_s_l_01.PNUM_R AND ( NOT sample_s_b_01.PL_RUCA4 LIKE '1' AND sample_s_b_01.DIED = '0' AND
NOT sample_s_l_01.PROCTYPE > 1.0 AND sample_s_b_01.PL_CBSA = '2' AND sample_s_l_01.Date = 5.0 OR NOT
sample_s_b_01.PL_NCHS2 <> '1' AND sample_s_l_01.DRGVER NOT BETWEEN 24.0 AND 24.0 AND sample_s_b_01.NEOMAT = '0' AND
sample_s_b_01.PL_UIC20 <> '2' AND sample_s_l_01.MDC < 23.0 AND sample_s_l_01.ASCHED <> '0' AND sample_s_l_01.TOTCHG =
129029.0 AND sample_s_b_01.HISPANIC = '2' AND NOT sample_s_l_01.HCUP_ED NOT BETWEEN 4.0 AND 4.0 AND
sample_s_b_01.PL_UR_CA = '1' AND sample_s_b_01.FEMALE NOT LIKE '0' AND sample_s_l_01.NDX <= 13.0 AND
sample_s_b_01.HOSPBRTH <> '0' AND NOT sample_s_b_01.AGE BETWEEN 22.0 AND 75.0 OR NOT sample_s_b_01.DNR = '0' OR NOT
sample_s_b_01.PL_RUCC2 IN ('1', '1', '1', '1', '1') AND sample_s_b_01.Homeless <> '0' AND sample_s_l_01.DX1 NOT IN ('V5789', '42781',
'7071', '7827', '41041') AND sample_s_b_01.MEDINCST NOT IN ('2', '1', '1', '2', '1') AND sample_s_l_01.NECODE BETWEEN 2.0 AND 2.0 )
GROUP BY sample_s_b_01.HISPANIC, sample_s_b_01.FEMALE
```

SQL result - syn:

HISPANIC	FEMALE	COUNT(*)
0	1	0
1	1	1024
2	2	0
3	2	11006
4	3	0
		29

Number of returned records: 9

Hellinger Distance = 0.009

SQL statement - real:

```
SELECT sample_r_b.PL_UIC20, sample_r_l.ASCHED, sample_r_b.FEMALE, sample_r_b.RACE, sample_r_b.PL_NCHS2,
sample_r_b.HISPANIC, sample_r_b.Homeless, sample_r_b.PL_UR_CA, sample_r_b.DNR, sample_r_b.PL_RUCA4, sample_r_b.HOSPBIRTH
,COUNT(*) FROM sample_r_b JOIN sample_r_l ON sample_r_b.PNUM_R = sample_r_l.PNUM_R WHERE ( sample_r_b.MEDINCST NOT IN
('1', '1', '2', '2', '4') AND sample_r_l.NDX > 6.0 AND NOT sample_r_b.PL_RUCC2 = '1' OR NOT sample_r_b.PL_NCHS2 NOT IN ('1', '1', '5',
'1', '2') OR NOT sample_r_b.RACE = '1' AND NOT sample_r_l.PROCTYPE > 1.0 AND sample_r_l.AWEEKEND < 1.0 AND
sample_r_l.ASCHED = '1' AND sample_r_b.DIED < '0' AND sample_r_l.HCUP_ED < 4.0 AND sample_r_b.PL_UIC20 < '1' AND
sample_r_b.PL_RUCA4 IN ('1', '1', '1', '1', '3') AND sample_r_b.Homeless IN ('0', '0', '0', '0', '0') OR NOT sample_r_l.DX1 NOT LIKE '65421'
AND sample_r_b.PL_UR_CA < '1' AND NOT sample_r_b.PL_CBSA < '2' AND sample_r_b.DNR = '0' AND NOT sample_r_l.NECODE
BETWEEN 2.0 AND 2.0 AND sample_r_l.TOTCHG < 33997.0 AND sample_r_l.NPR >= 4.0 AND NOT sample_r_b.HOSPBIRTH NOT IN ('0',
'0', '0', '0', '0') AND sample_r_b.AGE > 80.0 AND NOT sample_r_l.DRGVER > 24.0 AND sample_r_l.LOS < 1.0 AND sample_r_b.NEOMAT
NOT LIKE '0' AND sample_r_l.Date BETWEEN 5.0 AND 7.0 AND sample_r_b.FEMALE = '1' AND sample_r_l.MDC = 5.0 AND
sample_r_b.HISPANIC = '2' ) GROUP BY sample_r_b.PL_UIC20, sample_r_l.ASCHED, sample_r_b.FEMALE, sample_r_b.RACE,
sample_r_b.PL_NCHS2, sample_r_b.HISPANIC, sample_r_b.Homeless, sample_r_b.PL_UR_CA, sample_r_b.DNR, sample_r_b.PL_RUCA4,
sample_r_b.HOSPBIRTH
```

SQL result - real:

PL_UIC20	ASCHED	FEMALE	RACE	PL_NCHS2	HISPANIC	Homeless	PL_UR_CA	DNR	PL_RUCA4	HOSPBIRTH	COUNT(*)	
0	1	0	0	1	1	2	0	1	0	1	0	103444
1	1	0	0	1	1	2	0	1	0	1	1	3
2	1	0	0	1	1	2	0	1	0	2	0	131
3	1	0	0	1	1	2	0	1	0	3	0	26
4	1	0	0	1	1	2	0	1	0	4	0	193

Number of returned records: 1036

SQL statement - syn:

```
SELECT sample_s_b_01.PL_UIC20, sample_s_l_01.ASCHED, sample_s_b_01.FEMALE, sample_s_b_01.RACE, sample_s_b_01.PL_NCHS2,
sample_s_b_01.HISPANIC, sample_s_b_01.Homeless, sample_s_b_01.PL_UR_CA, sample_s_b_01.DNR, sample_s_b_01.PL_RUCA4,
sample_s_b_01.HOSPBIRTH ,COUNT(*) FROM sample_s_b_01 JOIN sample_s_l_01 ON sample_s_b_01.PNUM_R = sample_s_l_01.PNUM_R
AND ( sample_s_b_01.MEDINCST NOT IN ('1', '1', '2', '2', '4') AND sample_s_l_01.NDX > 6.0 AND NOT sample_s_b_01.PL_RUCC2 = '1'
OR NOT sample_s_b_01.PL_NCHS2 NOT IN ('1', '1', '5', '1', '2') OR NOT sample_s_b_01.RACE = '1' AND NOT sample_s_l_01.PROCTYPE <
1.0 AND sample_s_l_01.AWEEKEND < 1.0 AND sample_s_l_01.ASCHED = '1' AND sample_s_b_01.DIED < '0' AND
sample_s_l_01.HCUP_ED < 4.0 AND sample_s_b_01.PL_RUCA4 IN ('1', '1', '1', '1', '3') AND
sample_s_b_01.Homeless IN ('0', '0', '0', '0', '0') OR NOT sample_s_l_01.DX1 NOT LIKE '65421' AND sample_s_b_01.PL_UR_CA < '1' AND
NOT sample_s_b_01.PL_CBSA < '2' AND sample_s_b_01.DNR = '0' AND NOT sample_s_l_01.NECODE BETWEEN 2.0 AND 2.0 AND
sample_s_l_01.TOTCHG < 33997.0 AND sample_s_l_01.NPR >= 4.0 AND NOT sample_s_b_01.HOSPBIRTH NOT IN ('0', '0', '0', '0', '0') AND
sample_s_b_01.AGE > 80.0 AND NOT sample_s_l_01.DRGVER > 24.0 AND sample_s_l_01.LOS < 1.0 AND sample_s_b_01.NEOMAT NOT
LIKE '0' AND sample_s_l_01.Date BETWEEN 5.0 AND 7.0 AND sample_s_b_01.FEMALE = '1' AND sample_s_l_01.MDC = 5.0 AND
sample_s_b_01.HISPANIC = '2' ) GROUP BY sample_s_b_01.PL_UIC20, sample_s_l_01.ASCHED, sample_s_b_01.FEMALE,
sample_s_b_01.RACE, sample_s_b_01.PL_NCHS2, sample_s_b_01.HISPANIC, sample_s_b_01.Homeless, sample_s_b_01.PL_UR_CA,
sample_s_b_01.DNR, sample_s_b_01.PL_RUCA4, sample_s_b_01.HOSPBIRTH
```

SQL result - syn:

PL_UIC20	ASCHED	FEMALE	RACE	PL_NCHS2	HISPANIC	Homeless	PL_UR_CA	DNR	PL_RUCA4	HOSPBIRTH	COUNT(*)	
0	1	0	0	1	1	2	0	1	0	1	0	105163
1	1	0	0	1	1	2	0	1	0	1	1	4
2	1	0	0	1	1	2	0	1	0	2	0	111
3	1	0	0	1	1	2	0	1	0	3	0	26
4	1	0	0	1	1	2	0	1	0	4	0	208

Number of returned records: 1088

Hellinger Distance = 0.037

SQL statement - real:

```
SELECT sample_r_b.PL_UR_CA, sample_r_b.PL_NCHS2, sample_r_b.MEDINCST, sample_r_l.DX1, sample_r_b.PL_CBSA,
sample_r_b.Homeless, sample_r_b.PL_UIC20 ,COUNT(*) FROM sample_r_b JOIN sample_r_l ON sample_r_b.PNUM_R =
sample_r_l.PNUM_R WHERE ( sample_r_l.DRGVER = 24.0 OR sample_r_l.ASCHED = '0' AND sample_r_l.MDC <= 10.0 AND
sample_r_b.DNR LIKE '0' AND NOT sample_r_b.PL_RUCA4 < '1' AND sample_r_b.Homeless NOT IN ('0', '0', '0', '0', '0') AND
sample_r_b.RACE NOT IN ('1', '1', '1', '3', '2') AND sample_r_b.PL_CBSA < '2' AND sample_r_b.AGE >= 87.0 AND sample_r_b.DIED = '0'
AND sample_r_b.NEOMAT = '0' AND sample_r_l.LOS = 2.0 AND sample_r_l.Date < 12.0 AND NOT sample_r_b.HISPANIC IN ('2', '2', '2', '2',
'2') ) GROUP BY sample_r_b.PL_UR_CA, sample_r_b.PL_NCHS2, sample_r_b.MEDINCST, sample_r_l.DX1, sample_r_b.PL_CBSA,
sample_r_b.Homeless, sample_r_b.PL_UIC20
```

SQL result - real:

	PL_UR_CA	PL_NCHS2	MEDINCST	DX1	PL_CBSA	Homeless	PL_UIC20	COUNT(*)
0	1	1	1	1009	2	0	1	0
1	1	1	1	101	2	0	1	1
2	1	1	1	1083	2	0	1	0
3	1	1	1	1103	2	0	1	0
4	1	1	1	1104	2	0	1	3

Number of returned records: 45747

SQL statement - syn:

```
SELECT sample_s_b_01.PL_UR_CA, sample_s_b_01.PL_NCHS2, sample_s_b_01.MEDINCST, sample_s_l_01.DX1,
sample_s_b_01.PL_CBSA, sample_s_b_01.Homeless, sample_s_b_01.PL_UIC20,COUNT(*) FROM sample_s_b_01 JOIN sample_s_l_01 ON
sample_s_b_01.PNUM_R = sample_s_l_01.PNUM_R AND ( sample_s_l_01.DRGVER = 24.0 OR sample_s_l_01.ASCHED = '0' AND
sample_s_l_01.MDC <= 10.0 AND sample_s_b_01.DNR LIKE '0' AND NOT sample_s_b_01.PL_RUCA4 <> '1' AND sample_s_b_01.Homeless
NOT IN ('0', '0', '0', '0', '0') AND sample_s_b_01.RACE NOT IN ('1', '1', '1', '3', '2') AND sample_s_b_01.PL_CBSA <> '2' AND
sample_s_b_01.AGE >= 87.0 AND sample_s_b_01.DIED = '0' AND sample_s_b_01.NEOMAT = '0' AND sample_s_l_01.LOS = 2.0 AND
sample_s_l_01.Date <> 12.0 AND NOT sample_s_b_01.HISPANIC IN ('2', '2', '2', '2')) GROUP BY sample_s_b_01.PL_UR_CA,
sample_s_b_01.PL_NCHS2, sample_s_b_01.MEDINCST, sample_s_l_01.DX1, sample_s_b_01.PL_CBSA, sample_s_b_01.Homeless,
sample_s_b_01.PL_UIC20
```

SQL result - syn:

	PL_UR_CA	PL_NCHS2	MEDINCST	DX1	PL_CBSA	Homeless	PL_UIC20	COUNT(*)
0	1	1	1	1009	2	0	1	1
1	1	1	1	101	2	0	1	0
2	1	1	1	1083	2	0	1	1
3	1	1	1	1103	2	0	1	1
4	1	1	1	1104	2	0	1	1

Number of returned records: 48021

Hellinger Distance = 0.210

SQL statement - real:

```
SELECT sample_r_b.MEDINCST, sample_r_b.FEMALE, sample_r_b.RACE, sample_r_b.HISPANIC, sample_r_b.PL_UIC20, sample_r_l.DX1,
sample_r_b.NEOMAT, sample_r_b.PL_NCHS2, sample_r_b.Homeless, sample_r_b.PL_CBSA, sample_r_b.HOSPBRTH, sample_r_l.ASCHED,
sample_r_b.DIED, sample_r_b.PL_RUCC2, sample_r_b.PL_UR_CA, sample_r_b.PL_RUCA4,COUNT(*) FROM sample_r_b JOIN sample_r_l
ON sample_r_b.PNUM_R = sample_r_l.PNUM_R AND (sample_r_l.LOS NOT BETWEEN 2.0 AND 2.0 AND sample_r_b.MEDINCST = '1'
AND NOT sample_r_b.AGE NOT BETWEEN 82.0 AND 94.0 ) GROUP BY sample_r_b.MEDINCST, sample_r_b.FEMALE,
sample_r_b.RACE, sample_r_b.HISPANIC, sample_r_b.PL_UIC20, sample_r_l.DX1, sample_r_b.NEOMAT, sample_r_b.PL_NCHS2,
sample_r_b.Homeless, sample_r_b.PL_CBSA, sample_r_b.HOSPBRTH, sample_r_l.ASCHED, sample_r_b.DIED, sample_r_b.PL_RUCC2,
sample_r_b.PL_UR_CA, sample_r_b.PL_RUCA4
```

SQL result - real:

	MEDINCST	FEMALE	RACE	HISPANIC	PL_UIC20	DX1	NEOMAT	PL_NCHS2	Homeless	PL_CBSA	HOSPBRTH	ASCHED	DIED	PL_RUCC2	PL_UR_CA	PL_RUCA4	COUNT(*)
0	1	0	1	2	1	1122	0	2	0	2	0	0	0	1	1	1	0
1	1	0	1	2	1	1125	0	1	0	2	0	0	0	1	1	1	1
2	1	0	1	2	1	11284	0	1	0	2	0	0	0	1	1	1	1
3	1	0	1	2	1	1140	0	1	0	2	0	0	0	1	1	1	0
4	1	0	1	2	1	1231	0	1	0	2	0	0	0	1	1	1	0

Number of returned records: 10263

SQL statement - syn:

```
SELECT sample_s_b_01.MEDINCST, sample_s_b_01.FEMALE, sample_s_b_01.RACE, sample_s_b_01.HISPANIC,
sample_s_b_01.PL_UIC20, sample_s_l_01.DX1, sample_s_b_01.NEOMAT, sample_s_b_01.PL_NCHS2, sample_s_b_01.Homeless,
sample_s_b_01.PL_CBSA, sample_s_b_01.HOSPBRTH, sample_s_l_01.ASCHED, sample_s_b_01.DIED, sample_s_b_01.PL_RUCC2,
sample_s_b_01.PL_UR_CA, sample_s_b_01.PL_RUCA4,COUNT(*) FROM sample_s_b_01 JOIN sample_s_l_01 ON
sample_s_b_01.PNUM_R = sample_s_l_01.PNUM_R AND (sample_s_l_01.LOS NOT BETWEEN 2.0 AND 2.0 AND
sample_s_b_01.MEDINCST = '1' AND NOT sample_s_b_01.AGE NOT BETWEEN 82.0 AND 94.0 ) GROUP BY sample_s_b_01.MEDINCST,
sample_s_b_01.FEMALE, sample_s_b_01.RACE, sample_s_b_01.HISPANIC, sample_s_b_01.PL_UIC20, sample_s_l_01.DX1,
sample_s_b_01.NEOMAT, sample_s_b_01.PL_NCHS2, sample_s_b_01.Homeless, sample_s_b_01.PL_CBSA, sample_s_b_01.HOSPBRTH,
sample_s_l_01.ASCHED, sample_s_b_01.DIED, sample_s_b_01.PL_RUCC2, sample_s_b_01.PL_UR_CA, sample_s_b_01.PL_RUCA4
```

SQL result - syn:

	MEDINCST	FEMALE	RACE	HISPANIC	PL_UIC20	DX1	NEOMAT	PL_NCHS2	Homeless	PL_CBSA	HOSPBRTH	ASCHED	DIED	PL_RUCC2	PL_UR_CA	PL_RUCA4	COUNT(*)
0	1	0	1	2	1	1122	0	2	0	2	0	0	0	1	1	1	1
1	1	0	1	2	1	1125	0	1	0	2	0	0	0	1	1	1	1

MEDINCST	FEMALE	RACE	HISPANIC	PL_UIC20	DX1	NEOMAT	PL_NCHS2	Homeless	PL_CBSA	HOSPBIRTH	ASCHED	DIED	PL_RUCC2	PL_UR_CA	PL_RUCA4	COUNT(*)
2	1	0	1	2	1	11284	0	1	0	2	0	0	0	1	1	1
3	1	0	1	2	1	1140	0	1	0	2	0	0	0	1	1	1
4	1	0	1	2	1	1231	0	1	0	2	0	0	0	1	1	1

Number of returned records: 13433

Hellinger Distance = 0.658

SQL statement - real:

```
SELECT sample_r_b.HISPANIC, sample_r_b.MEDINCST, sample_r_b.PL_NCHS2 ,COUNT(*) FROM sample_r_b JOIN sample_r_l ON sample_r_b.PNUM_R = sample_r_l.PNUM_R WHERE ( sample_r_l.NECODE = 2.0 OR sample_r_b.PL_UIC20 LIKE '1' AND sample_r_b.PL_CBSA IN ('2', '2', '2', '2', '2') AND NOT sample_r_b.PL_UR_CA IN ('1', '2', '3', '1', '2') AND sample_r_b.FEMALE NOT LIKE '0' AND NOT sample_r_l.HCUP_ED <= 4.0 AND sample_r_b.HISPANIC LIKE '1' AND sample_r_b.HOSPBIRTH = '0' AND sample_r_l.LOS < 6.0 AND sample_r_l.DRGVER > 25.0 AND sample_r_b.PL_RUCC2 NOT IN ('1', '1', '1', '1', '1') AND sample_r_l.DX1 <> 'V5789' AND sample_r_b.PL_NCHS2 <> '1' AND sample_r_l.AWEEKEND > 1.0 AND sample_r_l.TOTCHG BETWEEN 61672.0 AND 70333.0 AND sample_r_b.AGE = 59.0 AND sample_r_b.RACE NOT IN ('3', '1', '1', '2', '1') AND sample_r_l.PROCTYPE = 1.0 AND sample_r_b.DNR NOT IN ('0', '0', '0', '0', '0') OR NOT sample_r_b.PL_RUCA4 LIKE '1' ) GROUP BY sample_r_b.HISPANIC, sample_r_b.MEDINCST, sample_r_b.PL_NCHS2
```

SQL result - real:

HISPANIC	MEDINCST	PL_NCHS2	COUNT(*)
0	1	1	5491
1	1	2	741
2	1	3	4322
3	1	4	2454
4	1	5	136

Number of returned records: 109

SQL statement - syn:

```
SELECT sample_s_b_01.HISPANIC, sample_s_b_01.MEDINCST, sample_s_b_01.PL_NCHS2 ,COUNT(*) FROM sample_s_b_01 JOIN sample_s_l_01 ON sample_s_b_01.PNUM_R = sample_s_l_01.PNUM_R AND ( sample_s_l_01.NECODE = 2.0 OR sample_s_b_01.PL_UIC20 LIKE '1' AND sample_s_b_01.PL_CBSA IN ('2', '2', '2', '2', '2') AND NOT sample_s_b_01.PL_UR_CA IN ('1', '2', '3', '1', '2') AND sample_s_b_01.FEMALE NOT LIKE '0' AND NOT sample_s_l_01.HCUP_ED <= 4.0 AND sample_s_b_01.HISPANIC LIKE '1' AND sample_s_b_01.HOSPBIRTH = '0' AND sample_s_l_01.LOS < 6.0 AND sample_s_l_01.DRGVER > 25.0 AND sample_s_b_01.PL_RUCC2 NOT IN ('1', '1', '1', '1', '1') AND sample_s_l_01.DX1 <> 'V5789' AND sample_s_b_01.PL_NCHS2 <> '1' AND sample_s_l_01.AWEEKEND > 1.0 AND sample_s_l_01.TOTCHG BETWEEN 61672.0 AND 70333.0 AND sample_s_b_01.AGE = 59.0 AND sample_s_b_01.RACE NOT IN ('3', '1', '1', '2', '1') AND sample_s_l_01.PROCTYPE = 1.0 AND sample_s_b_01.DNR NOT IN ('0', '0', '0', '0', '0') OR NOT sample_s_b_01.PL_RUCA4 LIKE '1' ) GROUP BY sample_s_b_01.HISPANIC, sample_s_b_01.MEDINCST, sample_s_b_01.PL_NCHS2
```

SQL result - syn:

HISPANIC	MEDINCST	PL_NCHS2	COUNT(*)
0	1	1	6702
1	1	2	856
2	1	3	4475
3	1	4	2527
4	1	5	148

Number of returned records: 108

Hellinger Distance = 0.030

SQL statement - real:

```
SELECT sample_r_l.DX1, sample_r_b.PL_RUCA4, sample_r_b.NEOMAT, sample_r_b.PL_CBSA, sample_r_b.PL_UR_CA, sample_r_b.DIED, sample_r_l.ASCHED, sample_r_b.FEMALE, sample_r_b.RACE, sample_r_b.HOSPBIRTH, sample_r_b.DNR, sample_r_b.HISPANIC ,COUNT(*) FROM sample_r_b JOIN sample_r_l ON sample_r_b.PNUM_R = sample_r_l.PNUM_R AND ( sample_r_l.NECODE = 2.0 AND NOT sample_r_l.PROCTYPE >= 1.0 OR sample_r_b.HOSPBIRTH <> '0' AND sample_r_l.AWEEKEND = 1.0 AND sample_r_b.MEDINCST = '4' AND sample_r_b.NEOMAT LIKE '0' AND sample_r_b.PL_CBSA NOT LIKE '2' OR NOT sample_r_b.DIED NOT LIKE '0' AND sample_r_b.Homeless NOT LIKE '0' AND NOT sample_r_b.RACE = '2' AND sample_r_b.PL_RUCA4 <> '1' ) GROUP BY sample_r_l.DX1, sample_r_b.PL_RUCA4, sample_r_b.NEOMAT, sample_r_b.PL_CBSA, sample_r_b.PL_UR_CA, sample_r_b.DIED, sample_r_l.ASCHED, sample_r_b.FEMALE, sample_r_b.RACE, sample_r_b.HOSPBIRTH, sample_r_b.DNR, sample_r_b.HISPANIC
```

SQL result - real:

DX1	PL_RUCA4	NEOMAT	PL_CBSA	PL_UR_CA	DIED	ASCHED	FEMALE	RACE	HOSPBIRTH	DNR	HISPANIC	COUNT(*)
-----	----------	--------	---------	----------	------	--------	--------	------	-----------	-----	----------	----------

	DX1	PL_RUCA4	NEOMAT	PL_CBSA	PL_UR_CA	DIED	ASCHED	FEMALE	RACE	HOSPBIRTH	DNR	HISPANIC	COUNT(*)
0	1104	1	0	2	1	0	0	0	1	0	0	2	1
1	1104	1	0	2	1	0	0	0	None	0	0	None	0
2	1120	1	0	2	1	0	0	0	1	0	0	2	1
3	1120	1	0	2	1	0	0	0	3	0	0	1	1
4	1120	1	0	2	1	0	0	0	None	0	0	None	0

Number of returned records: 12980

SQL statement - syn:

```
SELECT sample_s_l_01.DX1, sample_s_b_01.PL_RUCA4, sample_s_b_01.NEOMAT, sample_s_b_01.PL_CBSA, sample_s_b_01.PL_UR_CA,
sample_s_b_01.DIED, sample_s_l_01.ASCHED, sample_s_b_01.FEMALE, sample_s_b_01.RACE, sample_s_b_01.HOSPBIRTH,
sample_s_b_01.DNR, sample_s_b_01.HISPANIC ,COUNT(*) FROM sample_s_b_01 JOIN sample_s_l_01 ON sample_s_b_01.PNUM_R =
sample_s_l_01.PNUM_R WHERE ( sample_s_l_01.NECODE = 2.0 AND NOT sample_s_l_01.PROCTYPE >= 1.0 OR
sample_s_b_01.HOSPBIRTH <> '0' AND sample_s_l_01.AWEEKEND = 1.0 AND sample_s_b_01.MEDINCST = '4' AND
sample_s_b_01.NEOMAT LIKE '0' AND sample_s_b_01.PL_CBSA NOT LIKE '2' OR NOT sample_s_b_01.DIED NOT LIKE '0' AND
sample_s_b_01.Homeless NOT LIKE '0' AND NOT sample_s_b_01.RACE = '2' AND sample_s_b_01.PL_RUCA4 <> '1' ) GROUP BY
sample_s_l_01.DX1, sample_s_b_01.PL_RUCA4, sample_s_b_01.NEOMAT, sample_s_b_01.PL_CBSA, sample_s_b_01.PL_UR_CA,
sample_s_b_01.DIED, sample_s_l_01.ASCHED, sample_s_b_01.FEMALE, sample_s_b_01.RACE, sample_s_b_01.HOSPBIRTH,
sample_s_b_01.DNR, sample_s_b_01.HISPANIC
```

SQL result - syn:

	DX1	PL_RUCA4	NEOMAT	PL_CBSA	PL_UR_CA	DIED	ASCHED	FEMALE	RACE	HOSPBIRTH	DNR	HISPANIC	COUNT(*)
0	1104	1	0	2	1	0	0	0	1	0	0	2	0
1	1104	1	0	2	1	0	0	0	None	0	0	None	1
2	1120	1	0	2	1	0	0	0	1	0	0	2	0
3	1120	1	0	2	1	0	0	0	3	0	0	1	0
4	1120	1	0	2	1	0	0	0	None	0	0	None	1

Number of returned records: 14835

Hellinger Distance = 0.514

SQL statement - real:

```
SELECT sample_r_b.PL_RUCC2, sample_r_b.HISPANIC, sample_r_b.NEOMAT ,COUNT(*) FROM sample_r_b JOIN sample_r_l ON
sample_r_b.PNUM_R = sample_r_l.PNUM_R WHERE ( NOT sample_r_b.RACE <> '1' AND sample_r_b.HISPANIC = '2' AND
sample_r_l.DX1 = '6827' AND NOT sample_r_b.Homeless IN ('0', '0', '0', '0', '0') AND sample_r_b.HOSPBIRTH <> '0' AND
sample_r_l.PROCTYPE BETWEEN 1.0 AND 1.0 AND sample_r_b.DNR NOT LIKE '0' AND sample_r_b.NEOMAT = '0' AND NOT
sample_r_l.NECODE > 2.0 AND sample_r_b.PL_UIC20 <> '1' AND sample_r_b.DIED = '0' AND NOT sample_r_l.NPR < 2.0 AND NOT
sample_r_b.AGE BETWEEN 59.0 AND 65.0 AND sample_r_l.DRGVER <= 25.0 OR sample_r_b.MEDINCST IN ('1', '2', '3', '2', '4') AND
sample_r_b.PL_UR_CA IN ('1', '1', '1', '1', '1') AND sample_r_b.PL_RUCA4 <> '1' AND sample_r_b.PL_CBSA = '2' AND NOT
sample_r_b.FEMALE = '1' AND sample_r_l.HCUP_ED <= 4.0 AND sample_r_l.LOS <> 5.0 AND sample_r_b.PL_NCHS2 LIKE '1' AND
sample_r_l.AWEEKEND < 1.0 AND NOT sample_r_l.TOTCHG <> 40949.0 AND sample_r_l.ASCHED LIKE '0' AND NOT
sample_r_b.PL_RUCC2 <> '2' AND sample_r_l.MDC <> 13.0 AND NOT sample_r_l.NDX = 13.0 ) GROUP BY sample_r_b.PL_RUCC2,
sample_r_b.HISPANIC, sample_r_b.NEOMAT
```

No records returnedSQL statement - syn:

```
SELECT sample_s_b_01.PL_RUCC2, sample_s_b_01.HISPANIC, sample_s_b_01.NEOMAT ,COUNT(*) FROM sample_s_b_01 JOIN
sample_s_l_01 ON sample_s_b_01.PNUM_R = sample_s_l_01.PNUM_R WHERE ( NOT sample_s_b_01.RACE <> '1' AND
sample_s_b_01.HISPANIC = '2' AND sample_s_l_01.DX1 = '6827' AND NOT sample_s_b_01.Homeless IN ('0', '0', '0', '0', '0') AND
sample_s_b_01.HOSPBIRTH <> '0' AND sample_s_l_01.PROCTYPE BETWEEN 1.0 AND 1.0 AND sample_s_b_01.DNR NOT LIKE '0' AND
sample_s_b_01.NEOMAT = '0' AND NOT sample_s_l_01.NECODE > 2.0 AND sample_s_b_01.PL_UIC20 <> '1' AND sample_s_b_01.DIED =
'0' AND NOT sample_s_l_01.NPR < 2.0 AND NOT sample_s_b_01.AGE BETWEEN 59.0 AND 65.0 AND sample_s_l_01.DRGVER <= 25.0
OR sample_s_b_01.MEDINCST IN ('1', '2', '3', '2', '4') AND sample_s_b_01.PL_UR_CA IN ('1', '1', '1', '1', '1') AND sample_s_b_01.PL_RUCA4
<> '1' AND sample_s_b_01.PL_CBSA = '2' AND NOT sample_s_b_01.FEMALE = '1' AND sample_s_l_01.HCUP_ED <= 4.0 AND
sample_s_l_01.LOS <> 5.0 AND sample_s_b_01.PL_NCHS2 LIKE '1' AND sample_s_l_01.AWEEKEND < 1.0 AND NOT
sample_s_l_01.TOTCHG <> 40949.0 AND sample_s_l_01.ASCHED LIKE '0' AND NOT sample_s_b_01.PL_RUCC2 <> '2' AND
sample_s_l_01.MDC <> 13.0 AND NOT sample_s_l_01.NDX = 13.0 ) GROUP BY sample_s_b_01.PL_RUCC2, sample_s_b_01.HISPANIC,
sample_s_b_01.NEOMAT
```

No records returned

Hellinger Distance = nan

===== REAL VS SYNTHETIC VERSION 2 STARTS =====

SQL statement - real:

```
SELECT sample_r_b.Homeless, sample_r_l.DX1, sample_r_b.HOSPBIRTH, sample_r_b.PL_RUCA4, sample_r_b.PL_CBSA, sample_r_b.RACE ,COUNT(*) FROM sample_r_b JOIN sample_r_l ON sample_r_b.PNUM_R = sample_r_l.PNUM_R AND ( sample_r_l.DX1 = '29620' AND sample_r_b.FEMALE <> '0' AND sample_r_l.PROCTYPE < 1.0 AND NOT sample_r_l.NDX BETWEEN 5.0 AND 12.0 AND sample_r_l.ASCHEDE NOT IN ('0', '1', '0', '0', '0') AND sample_r_l.Date < 3.0 AND sample_r_l.DRGVER <> 25.0 AND sample_r_b.PL_NCHS2 NOT IN ('3', '1', '1', '1', '1') AND sample_r_l.NECODE NOT BETWEEN 2.0 AND 2.0 ) GROUP BY sample_r_b.Homeless, sample_r_l.DX1, sample_r_b.HOSPBIRTH, sample_r_b.PL_RUCA4, sample_r_b.PL_CBSA, sample_r_b.RACE
```

No records returned

SQL statement - syn:

```
SELECT sample_s_b_02.Homeless, sample_s_l_02.DX1, sample_s_b_02.HOSPBIRTH, sample_s_b_02.PL_RUCA4, sample_s_b_02.PL_CBSA, sample_s_b_02.RACE ,COUNT(*) FROM sample_s_b_02 JOIN sample_s_l_02 ON sample_s_b_02.PNUM_R = sample_s_l_02.PNUM_R WHERE ( sample_s_l_02.DX1 = '29620' AND sample_s_b_02.FEMALE <> '0' AND sample_s_l_02.PROCTYPE < 1.0 AND NOT sample_s_l_02.NDX BETWEEN 5.0 AND 12.0 AND sample_s_l_02.ASCHEDE NOT IN ('0', '1', '0', '0', '0') AND sample_s_l_02.Date < 3.0 AND sample_s_l_02.DRGVER <> 25.0 AND sample_s_b_02.PL_NCHS2 NOT IN ('3', '1', '1', '1', '1') AND sample_s_l_02.NECODE NOT BETWEEN 2.0 AND 2.0 ) GROUP BY sample_s_b_02.Homeless, sample_s_l_02.DX1, sample_s_b_02.HOSPBIRTH, sample_s_b_02.PL_RUCA4, sample_s_b_02.PL_CBSA, sample_s_b_02.RACE
```

No records returned

Hellinger Distance = nan

SQL statement - real:

```
SELECT sample_r_b.PL_UR_CA, sample_r_b.PL_RUCA4, sample_r_b.HOSPBIRTH, sample_r_b.DIED, sample_r_b.MEDINCST, sample_r_b.FEMALE, sample_r_l.ASCHEDE, sample_r_l.DX1, sample_r_b.PL_RUCC2, sample_r_b.PL_NCHS2, sample_r_b.DNR, sample_r_b.PL_UIC20, sample_r_b.PL_CBSA, sample_r_b.HISPANIC, sample_r_b.NEOMAT, sample_r_b.RACE ,COUNT(*) FROM sample_r_b JOIN sample_r_l ON sample_r_b.PNUM_R = sample_r_l.PNUM_R AND ( sample_r_l.LOS < 1.0 OR sample_r_l.DRGVER < 24.0 AND NOT sample_r_l.DX1 = '3811' AND NOT sample_r_b.HOSPBIRTH = '0' AND sample_r_l.TOTCHG < 5846.0 AND sample_r_b.FEMALE LIKE '0' AND NOT sample_r_l.NPR = 2.0 AND NOT sample_r_b.HISPANIC = '2' ) GROUP BY sample_r_b.PL_UR_CA, sample_r_b.PL_RUCA4, sample_r_b.HOSPBIRTH, sample_r_b.DIED, sample_r_b.MEDINCST, sample_r_b.FEMALE, sample_r_l.ASCHEDE, sample_r_l.DX1, sample_r_b.PL_RUCC2, sample_r_b.PL_NCHS2, sample_r_b.DNR, sample_r_b.PL_UIC20, sample_r_b.PL_CBSA, sample_r_b.HISPANIC, sample_r_b.NEOMAT, sample_r_b.RACE
```

SQL result - real:

	PL_UR_CA	PL_RUCA4	HOSPBIRTH	DIED	MEDINCST	FEMALE	ASCHED	DX1	PL_RUCC2	PL_NCHS2	DNR	PL_UIC20	PL_CBSA	HISPANIC	NEOMAT	RACE	COUNT(*)
0	1	1	0	0	1	0	0	1103	1	1	0	1	2	1	0	3	0
1	1	1	0	0	1	0	0	11284	1	1	0	1	2	1	0	3	0
2	1	1	0	0	1	0	0	1190	1	1	0	1	2	1	0	3	1
3	1	1	0	0	1	0	0	1460	1	1	0	1	2	2	0	2	1
4	1	1	0	0	1	0	0	1479	1	1	0	1	2	None	0	None	1

Number of returned records: 14358

SQL statement - syn:

```
SELECT sample_s_b_02.PL_UR_CA, sample_s_b_02.PL_RUCA4, sample_s_b_02.HOSPBIRTH, sample_s_b_02.DIED, sample_s_b_02.MEDINCST, sample_s_b_02.FEMALE, sample_s_l_02.ASCHEDE, sample_s_l_02.DX1, sample_s_b_02.PL_RUCC2, sample_s_b_02.PL_NCHS2, sample_s_b_02.DNR, sample_s_b_02.PL_UIC20, sample_s_b_02.PL_CBSA, sample_s_b_02.HISPANIC, sample_s_b_02.NEOMAT, sample_s_b_02.RACE ,COUNT(*) FROM sample_s_b_02 JOIN sample_s_l_02 ON sample_s_b_02.PNUM_R = sample_s_l_02.PNUM_R AND ( sample_s_l_02.LOS < 1.0 OR sample_s_l_02.DRGVER < 24.0 AND NOT sample_s_l_02.DX1 = '3811' AND NOT sample_s_b_02.HOSPBIRTH = '0' AND sample_s_l_02.TOTCHG < 5846.0 AND sample_s_b_02.FEMALE LIKE '0' AND NOT sample_s_l_02.NPR = 2.0 AND NOT sample_s_b_02.HISPANIC = '2' ) GROUP BY sample_s_b_02.PL_UR_CA, sample_s_b_02.PL_RUCA4, sample_s_b_02.HOSPBIRTH, sample_s_b_02.DIED, sample_s_b_02.MEDINCST, sample_s_b_02.FEMALE, sample_s_l_02.ASCHEDE,
```

sample_s_1_02.DX1, sample_s_b_02.PL_RUCC2, sample_s_b_02.PL_NCHS2, sample_s_b_02.DNR, sample_s_b_02.PL_UIC20, sample_s_b_02.PL_CBSA, sample_s_b_02.HISPANIC, sample_s_b_02.NEOMAT, sample_s_b_02.RACE

SQL result - syn:

	PL_UR_CA	PL_RUCA4	HOSPBIRTH	DIED	MEDINCST	FEMALE	ASCHED	DX1	PL_RUCC2	PL_NCHS2	DNR	PL_UIC20	PL_CBSA	HISPANIC	NEOMAT	RACE	COUNT(*)
0	1	1	0	0	1	0	0	1103	1	1	0	1	2	1	0	3	1
1	1	1	0	0	1	0	0	11284	1	1	0	1	2	1	0	3	1
2	1	1	0	0	1	0	0	1190	1	1	0	1	2	1	0	3	0
3	1	1	0	0	1	0	0	1460	1	1	0	1	2	2	0	2	0
4	1	1	0	0	1	0	0	1479	1	1	0	1	2	None	0	None	1

Number of returned records: 15755

Hellinger Distance = 0.738

SQL statement - real:

```
SELECT sample_r_b.HOSPBIRTH,COUNT(*) FROM sample_r_b JOIN sample_r_l ON sample_r_b.PNUM_R = sample_r_l.PNUM_R AND (
sample_r_l.DRGVER <> 24.0 AND sample_r_b.HISPANIC IN ('1', '2', '2', '2', '2') AND NOT sample_r_b.HOSPBIRTH = '0' AND
sample_r_b.FEMALE NOT IN ('0', '0', '0', '1', '1') AND sample_r_l.TOTCHG <= 44350.0 AND sample_r_l.PROCTYPE <> 1.0 AND
sample_r_l.LOS = 2.0 ) GROUP BY sample_r_b.HOSPBIRTH
```

No records returned

SQL statement - syn:

```
SELECT sample_s_b_02.HOSPBIRTH,COUNT(*) FROM sample_s_b_02 JOIN sample_s_l_02 ON sample_s_b_02.PNUM_R =
sample_s_l_02.PNUM_R WHERE ( sample_s_l_02.DRGVER <> 24.0 AND sample_s_b_02.HISPANIC IN ('1', '2', '2', '2', '2') AND NOT
sample_s_b_02.HOSPBIRTH = '0' AND sample_s_b_02.FEMALE NOT IN ('0', '0', '0', '1', '1') AND sample_s_l_02.TOTCHG <= 44350.0 AND
sample_s_l_02.PROCTYPE <> 1.0 AND sample_s_l_02.LOS = 2.0 ) GROUP BY sample_s_b_02.HOSPBIRTH
```

No records returned

Hellinger Distance = nan

SQL statement - real:

```
SELECT sample_r_b.HISPANIC, sample_r_b.PL_NCHS2, sample_r_b.PL_UR_CA, sample_r_b.HOSPBIRTH, sample_r_b.DNR,
sample_r_b.DIED, sample_r_b.PL_UIC20, sample_r_b.RACE, sample_r_l.DX1, sample_r_b.MEDINCST, sample_r_b.FEMALE,
sample_r_l.ASCHED, sample_r_b.NEOMAT ,COUNT(*) FROM sample_r_b JOIN sample_r_l ON sample_r_b.PNUM_R =
sample_r_l.PNUM_R WHERE ( NOT sample_r_b.PL_UR_CA = '1' AND sample_r_l.MDC BETWEEN 1.0 AND 8.0 AND
sample_r_b.MEDINCST <> '3' AND sample_r_l.NDX = 5.0 OR sample_r_b.PL_CBSA = '2' OR sample_r_l.TOTCHG >= 36728.0 ) GROUP BY
sample_r_b.HISPANIC, sample_r_b.PL_NCHS2, sample_r_b.PL_UR_CA, sample_r_b.HOSPBIRTH, sample_r_b.DNR, sample_r_b.DIED,
sample_r_b.PL_UIC20, sample_r_b.RACE, sample_r_l.DX1, sample_r_b.MEDINCST, sample_r_b.FEMALE, sample_r_l.ASCHED,
sample_r_b.NEOMAT
```

SQL result - real:

	HISPANIC	PL_NCHS2	PL_UR_CA	HOSPBIRTH	DNR	DIED	PL_UIC20	RACE	DX1	MEDINCST	FEMALE	ASCHED	NEOMAT	COUNT(*)
0	1	1	1	0	0	0	1	3	1009	1	0	0	0	0
1	1	1	1	0	0	0	1	3	1009	4	0	0	0	0
2	1	1	1	0	0	0	1	3	1100	2	0	0	0	2
3	1	1	1	0	0	0	1	3	1103	1	0	0	0	0
4	1	1	1	0	0	0	1	3	1104	1	0	0	0	0

Number of returned records: 174439

SQL statement - syn:

```
SELECT sample_s_b_02.HISPANIC, sample_s_b_02.PL_NCHS2, sample_s_b_02.PL_UR_CA, sample_s_b_02.HOSPBIRTH,
sample_s_b_02.DNR, sample_s_b_02.DIED, sample_s_b_02.PL_UIC20, sample_s_b_02.RACE, sample_s_l_02.DX1,
sample_s_b_02.MEDINCST, sample_s_b_02.FEMALE, sample_s_l_02.ASCHED, sample_s_b_02.NEOMAT ,COUNT(*) FROM sample_s_b_02
JOIN sample_s_l_02 ON sample_s_b_02.PNUM_R = sample_s_l_02.PNUM_R AND ( NOT sample_s_b_02.PL_UR_CA = '1' AND
sample_s_l_02.MDC BETWEEN 1.0 AND 8.0 AND sample_s_b_02.MEDINCST <> '3' AND sample_s_l_02.NDX = 5.0 OR
```

sample_s_b_02.PL_CBSA = '2' OR sample_s_l_02.TOTCHG >= 36728.0) GROUP BY sample_s_b_02.HISPANIC, sample_s_b_02.PL_NCHS2, sample_s_b_02.PL_UR_CA, sample_s_b_02.HOSPBIRTH, sample_s_b_02.DNR, sample_s_b_02.DIED, sample_s_b_02.PL_UIC20, sample_s_b_02.RACE, sample_s_l_02.DX1, sample_s_b_02.MEDINCST, sample_s_b_02.FEMALE, sample_s_l_02.ASCRED, sample_s_b_02.NEOMAT

SQL result - syn:

	HISPANIC	PL_NCHS2	PL_UR_CA	HOSPBIRTH	DNR	DIED	PL_UIC20	RACE	DX1	MEDINCST	FEMALE	ASCHED	NEOMAT	COUNT(*)
0	1	1		1	0	0	1	3	1009	1	0	0	0	1
1	1	1		1	0	0	0	1	3	1009	4	0	0	1
2	1	1		1	0	0	0	1	3	1100	2	0	0	1
3	1	1		1	0	0	0	1	3	1103	1	0	0	1
4	1	1		1	0	0	0	1	3	1104	1	0	0	1

Number of returned records: 213003

Hellinger Distance = 0.439

SQL statement - real:

SELECT sample_r_b.RACE, sample_r_b.HISPANIC, sample_r_b.DIED, sample_r_b.PL_UR_CA, sample_r_b.FEMALE, sample_r_b.PL_NCHS2, sample_r_b.PL_RUCA4, sample_r_b.PL_CBSA, sample_r_b.PL_UIC20, sample_r_b.PL_RUCC2 ,COUNT(*) FROM sample_r_b JOIN sample_r_l ON sample_r_b.PNUM_R = sample_r_l.PNUM_R AND (sample_r_b.HOSPBIRTH <> '0' AND sample_r_b.MEDINCST = '4' AND sample_r_l.NPR <> 3.0 AND sample_r_l.TOTCHG >= 23774.0 AND NOT sample_r_b.HISPANIC = '2' AND sample_r_b.Homeless <> '0' AND sample_r_l.Date >= 9.0 AND sample_r_l.PROCTYPE > 1.0 AND sample_r_l.ASCRED LIKE '0' AND sample_r_l.LOS BETWEEN 3.0 AND 6.0 AND sample_r_b.PL_CBSA = '2' AND NOT sample_r_b.RACE NOT IN ('3', '2', '3', '3', '1') AND NOT sample_r_b.PL_RUCC2 LIKE '1' AND sample_r_l.HCUP_ED > 4.0 AND sample_r_l.DX1 NOT LIKE '25002') GROUP BY sample_r_b.RACE, sample_r_b.HISPANIC, sample_r_b.DIED, sample_r_b.PL_UR_CA, sample_r_b.FEMALE, sample_r_b.PL_NCHS2, sample_r_b.PL_RUCA4, sample_r_b.PL_CBSA, sample_r_b.PL_UIC20, sample_r_b.PL_RUCC2

No records returned

SQL statement - syn:

SELECT sample_s_b_02.RACE, sample_s_b_02.HISPANIC, sample_s_b_02.DIED, sample_s_b_02.PL_UR_CA, sample_s_b_02.FEMALE, sample_s_b_02.PL_NCHS2, sample_s_b_02.PL_RUCA4, sample_s_b_02.PL_CBSA, sample_s_b_02.PL_UIC20, sample_s_b_02.PL_RUCC2 ,COUNT(*) FROM sample_s_b_02 JOIN sample_s_l_02 ON sample_s_b_02.PNUM_R = sample_s_l_02.PNUM_R WHERE (sample_s_b_02.HOSPBIRTH <> '0' AND sample_s_b_02.MEDINCST = '4' AND sample_s_l_02.NPR <> 3.0 AND sample_s_l_02.TOTCHG >= 23774.0 AND NOT sample_s_b_02.HISPANIC = '2' AND sample_s_b_02.Homeless <> '0' AND sample_s_l_02.Date >= 9.0 AND sample_s_l_02.PROCTYPE > 1.0 AND sample_s_l_02.ASCRED LIKE '0' AND sample_s_l_02.LOS BETWEEN 3.0 AND 6.0 AND sample_s_b_02.PL_CBSA = '2' AND NOT sample_s_b_02.RACE NOT IN ('3', '2', '3', '3', '1') AND NOT sample_s_b_02.PL_RUCC2 LIKE '1' AND sample_s_l_02.HCUP_ED > 4.0 AND sample_s_l_02.DX1 NOT LIKE '25002') GROUP BY sample_s_b_02.RACE, sample_s_b_02.HISPANIC, sample_s_b_02.DIED, sample_s_b_02.PL_UR_CA, sample_s_b_02.FEMALE, sample_s_b_02.PL_NCHS2, sample_s_b_02.PL_RUCA4, sample_s_b_02.PL_CBSA, sample_s_b_02.PL_UIC20, sample_s_b_02.PL_RUCC2

No records returned

Hellinger Distance = nan

SQL statement - real:

SELECT sample_r_b.PL_CBSA, sample_r_b.PL_NCHS2, sample_r_b.PL_RUCA4, sample_r_b.HISPANIC, sample_r_l.ASCRED, sample_r_b.NEOMAT ,COUNT(*) FROM sample_r_b JOIN sample_r_l ON sample_r_b.PNUM_R = sample_r_l.PNUM_R AND (sample_r_l.PROCTYPE BETWEEN 1.0 AND 1.0 AND sample_r_l.DX1 = '56211' AND sample_r_b.RACE IN ('1', '3', '1', '1', '1')) GROUP BY sample_r_b.PL_CBSA, sample_r_b.PL_NCHS2, sample_r_b.PL_RUCA4, sample_r_b.HISPANIC, sample_r_l.ASCRED, sample_r_b.NEOMAT

SQL result - real:

	PL_CBSA	PL_NCHS2	PL_RUCA4	HISPANIC	ASCHED	NEOMAT	COUNT(*)
0	0	6	3	1	1	0	1
1	0	6	3	2	0	0	7
2	0	6	3	2	1	0	3
3	0	6	4	1	0	0	0

	PL_CBSA	PL_NCHS2	PL_RUCA4	HISPANIC	ASCHED	NEOMAT	COUNT(*)
4	0	6	4	2	0	0	8

Number of returned records: 65

SQL statement - syn:

```
SELECT sample_s_b_02.PL_CBSA, sample_s_b_02.PL_NCHS2, sample_s_b_02.PL_RUCA4, sample_s_b_02.HISPANIC,
sample_s_l_02.ASCBED, sample_s_b_02.NEOMAT,COUNT(*) FROM sample_s_b_02 JOIN sample_s_l_02 ON sample_s_b_02.PNUM_R =
sample_s_l_02.PNUM_R AND ( sample_s_l_02.PROCTYPE BETWEEN 1.0 AND 1.0 AND sample_s_l_02.DX1 = '5621' ) AND
sample_s_b_02.RACE IN ('1','3','1','1','1') GROUP BY sample_s_b_02.PL_CBSA, sample_s_b_02.PL_NCHS2, sample_s_b_02.PL_RUCA4,
sample_s_b_02.HISPANIC, sample_s_l_02.ASCBED, sample_s_b_02.NEOMAT
```

SQL result - syn:

	PL_CBSA	PL_NCHS2	PL_RUCA4	HISPANIC	ASCHED	NEOMAT	COUNT(*)
0	0	6	3	1	1	0	0
1	0	6	3	2	0	0	11
2	0	6	3	2	1	0	2
3	0	6	4	1	0	0	1
4	0	6	4	2	0	0	8

Number of returned records: 86

Hellinger Distance = 0.187

SQL statement - real:

```
SELECT sample_r_b.Homeless, sample_r_l.DX1, sample_r_b.PL_UIC20, sample_r_b.DIED ,COUNT(*) FROM sample_r_b JOIN sample_r_l
ON sample_r_b.PNUM_R = sample_r_l.PNUM_R WHERE ( sample_r_b.PL_RUCA4 LIKE '1' AND sample_r_l.HCUP_ED <> 4.0 AND
sample_r_l.MDC > 3.0 OR sample_r_l.AWEEKEND < 1.0 AND NOT sample_r_b.AGE > 37.0 AND sample_r_b.DIED NOT IN ('0', '0', '0', '0',
'0') OR sample_r_l.ASCHED LIKE '0' AND sample_r_l.DRGVER <> 24.0 AND sample_r_l.NDX < 5.0 AND NOT sample_r_b.PL_RUCC2 <>
'1' ) GROUP BY sample_r_b.Homeless, sample_r_l.DX1, sample_r_b.PL_UIC20, sample_r_b.DIED
```

SQL result - real:

	Homeless	DX1	PL_UIC20	DIED	COUNT(*)
0	0	1100	1	0	1
1	0	1103	1	0	2
2	0	1105	1	0	3
3	0	1105	2	0	0
4	0	1108	1	0	1

Number of returned records: 7451

SQL statement - syn:

```
SELECT sample_s_b_02.Homeless, sample_s_l_02.DX1, sample_s_b_02.PL_UIC20, sample_s_b_02.DIED ,COUNT(*) FROM sample_s_b_02
JOIN sample_s_l_02 ON sample_s_b_02.PNUM_R = sample_s_l_02.PNUM_R AND ( sample_s_b_02.PL_RUCA4 LIKE '1' AND
sample_s_l_02.HCUP_ED <> 4.0 AND sample_s_l_02.MDC > 3.0 OR sample_s_l_02.AWEEKEND < 1.0 AND NOT sample_s_b_02.AGE >
37.0 AND sample_s_b_02.DIED NOT IN ('0', '0', '0', '0', '0') OR sample_s_l_02.ASCHED LIKE '0' AND sample_s_l_02.DRGVER <> 24.0 AND
sample_s_l_02.NDX < 5.0 AND NOT sample_s_b_02.PL_RUCC2 <> '1' ) GROUP BY sample_s_b_02.Homeless, sample_s_l_02.DX1,
sample_s_b_02.PL_UIC20, sample_s_b_02.DIED
```

SQL result - syn:

	Homeless	DX1	PL_UIC20	DIED	COUNT(*)
0	0	1100	1	0	1
1	0	1103	1	0	2
2	0	1105	1	0	2
3	0	1105	2	0	1
4	0	1108	1	0	1

Number of returned records: 7549

Hellinger Distance = 0.075

SQL statement - real:

```
SELECT sample_r_b.HOSPBRTH, sample_r_b.PL_CBSA, sample_r_b.PL_UIC20, sample_r_b.DIED, sample_r_b.NEOMAT,
sample_r_b.MEDINCST, sample_r_b.FEMALE, sample_r_b.DNR, sample_r_b.HISPANIC, sample_r_b.PL_RUCC2 ,COUNT(*) FROM
sample_r_b JOIN sample_r_l ON sample_r_b.PNUM_R = sample_r_l.PNUM_R AND ( NOT sample_r_l.PROCTYPE = 1.0 AND
sample_r_l.MDC = 1.0 AND sample_r_b.RACE IN ('1','1','4','1','3') AND sample_r_b.DNR IN ('0','0','0','0','0') AND NOT sample_r_l.DX1
```

```
<> '73313' AND sample_r_l.TOTCHG = 18440.0 AND NOT sample_r_b.FEMALE NOT IN ('1', '0', '1', '1', '1') AND
sample_r_l.AWEEKEND >= 1.0 AND sample_r_b.Homeless NOT LIKE '0' AND sample_r_b.NEOMAT IN ('0', '0', '0', '0', '0') AND NOT
sample_r_b.AGE <> 79.0 AND sample_r_b.PL_NCHS2 = '2' AND sample_r_l.HCUP_ED <= 4.0 AND sample_r_l.NPR >= 1.0 AND NOT
sample_r_l.NECODE >= 2.0 AND sample_r_b.PL_CBSA IN ('2', '2', '2', '2') OR sample_r_b.PL_UR_CA IN ('1', '4', '1', '1', '2') AND
sample_r_l.ASCHED <> '0' OR sample_r_b.HISPANIC = '2' AND sample_r_l.LOS >= 2.0 AND sample_r_l.Date < 5.0 ) GROUP BY
sample_r_b.HOSPBRTH, sample_r_b.PL_CBSA, sample_r_b.PL_UIC20, sample_r_b.DIED, sample_r_b.NEOMAT, sample_r_b.MEDINCST,
sample_r_b.FEMALE, sample_r_b.DNR, sample_r_b.HISPANIC, sample_r_b.PL_RUCC2
```

SQL result - real:

	HOSPBRTH	PL_CBSA	PL_UIC20	DIED	NEOMAT	MEDINCST	FEMALE	DNR	HISPANIC	PL_RUCC2	COUNT(*)
0	0	0	10	0	0	1	0	0	2	9	2
1	0	0	10	0	0	1	1	0	2	9	2
2	0	0	10	0	0	2	0	0	2	7	2
3	0	0	10	0	0	2	0	0	2	9	6
4	0	0	10	0	0	2	1	0	2	9	0

Number of returned records: 545

SQL statement - syn:

```
SELECT sample_s_b_02.HOSPBRTH, sample_s_b_02.PL_CBSA, sample_s_b_02.PL_UIC20, sample_s_b_02.DIED, sample_s_b_02.NEOMAT,
sample_s_b_02.MEDINCST, sample_s_b_02.FEMALE, sample_s_b_02.DNR, sample_s_b_02.HISPANIC, sample_s_b_02.PL_RUCC2
,COUNT(*) FROM sample_s_b_02 JOIN sample_s_l_02 ON sample_s_b_02.PNUM_R = sample_s_l_02.PNUM_R WHERE ( NOT
sample_s_l_02.PROCTYPE = 1.0 AND sample_s_l_02.MDC = 1.0 AND sample_s_b_02.RACE IN ('1', '1', '4', '1', '3') AND sample_s_b_02.DNR
IN ('0', '0', '0', '0', '0') AND NOT sample_s_l_02.DX1 <> '73313' AND sample_s_l_02.TOTCHG = 18440.0 AND NOT sample_s_l_02.NDX > 8.0
AND sample_s_b_02.FEMALE NOT IN ('1', '0', '1', '1', '1') AND sample_s_l_02.AWEEKEND >= 1.0 AND sample_s_b_02.Homeless NOT LIKE
'0' AND sample_s_b_02.NEOMAT IN ('0', '0', '0', '0', '0') AND NOT sample_s_b_02.AGE <> 79.0 AND sample_s_b_02.PL_NCHS2 = '2' AND
sample_s_l_02.HCUP_ED <= 4.0 AND sample_s_l_02.NPR >= 1.0 AND NOT sample_s_l_02.NECODE >= 2.0 AND sample_s_b_02.PL_CBSA
IN ('2', '2', '2', '2') OR sample_s_b_02.PL_UR_CA IN ('1', '4', '1', '1', '2') AND sample_s_l_02.ASCHED <> '0' OR sample_s_b_02.HISPANIC
= '2' AND sample_s_l_02.LOS >= 2.0 AND sample_s_l_02.Date < 5.0 ) GROUP BY sample_s_b_02.HOSPBRTH, sample_s_b_02.PL_CBSA,
sample_s_b_02.PL_UIC20, sample_s_b_02.DIED, sample_s_b_02.NEOMAT, sample_s_b_02.MEDINCST, sample_s_b_02.FEMALE,
sample_s_b_02.DNR, sample_s_b_02.HISPANIC, sample_s_b_02.PL_RUCC2
```

SQL result - syn:

	HOSPBRTH	PL_CBSA	PL_UIC20	DIED	NEOMAT	MEDINCST	FEMALE	DNR	HISPANIC	PL_RUCC2	COUNT(*)
0	0	0	10	0	0	1	0	0	2	9	2
1	0	0	10	0	0	1	1	0	2	9	2
2	0	0	10	0	0	2	0	0	2	7	2
3	0	0	10	0	0	2	0	0	2	9	5
4	0	0	10	0	0	2	1	0	2	9	1

Number of returned records: 574

Hellinger Distance = 0.038

SQL statement - real:

```
SELECT sample_r_b.PL_UIC20, sample_r_b.PL_RUCC2, sample_r_b.PL_CBSA, sample_r_b.HISPANIC, sample_r_b.Homeless,
sample_r_l.DX1, sample_r_b.PL_UR_CA, sample_r_b.FEMALE, sample_r_b.MEDINCST, sample_r_b.NEOMAT, sample_r_b.HOSPBRTH,
sample_r_l.ASCHED, sample_r_b.DNR, sample_r_b.RACE ,COUNT(*) FROM sample_r_b JOIN sample_r_l ON sample_r_b.PNUM_R =
sample_r_l.PNUM_R AND ( NOT sample_r_l.Date BETWEEN 9.0 AND 12.0 AND NOT sample_r_l.AWEEKEND < 1.0 AND
sample_r_b.PL_UIC20 <> '1' AND sample_r_b.HISPANIC <> '1' AND sample_r_b.DNR LIKE '0' OR sample_r_b.RACE IN ('1', '1', '2', '1', '1')
AND sample_r_l.PROCTYPE = 1.0 AND sample_r_l.DRGVER > 25.0 AND sample_r_b.FEMALE NOT LIKE '0' AND sample_r_l.TOTCHG
BETWEEN 77465.0 AND 162346.0 ) GROUP BY sample_r_b.PL_UIC20, sample_r_b.PL_RUCC2, sample_r_b.PL_CBSA,
sample_r_b.HISPANIC, sample_r_b.Homeless, sample_r_l.DX1, sample_r_b.PL_UR_CA, sample_r_b.FEMALE, sample_r_b.MEDINCST,
sample_r_b.NEOMAT, sample_r_b.HOSPBRTH, sample_r_l.ASCHED, sample_r_b.DNR, sample_r_b.RACE
```

SQL result - real:

	PL_UIC20	PL_RUCC2	PL_CBSA	HISPANIC	Homeless	DX1	PL_UR_CA	FEMALE	MEDINCST	NEOMAT	HOSPBRTH	ASCHED	DNR	RACE	COUNT(*)
0	10	9	0	2	0	41401	4	0	2	0	0	0	0	1	1
1	10	9	0	2	0	42731	4	1	3	0	0	0	0	1	1
2	11	7	0	2	0	1534	4	1	1	0	0	0	0	1	1
3	11	7	0	2	0	1888	4	1	1	0	0	0	0	1	0
4	11	7	0	2	0	1977	4	1	1	0	0	1	0	1	0

Number of returned records: 9476

SQL statement - syn:

```
SELECT sample_s_b_02.PL_UIC20, sample_s_b_02.PL_RUCC2, sample_s_b_02.PL_CBSA, sample_s_b_02.HISPANIC,
sample_s_b_02.Homeless, sample_s_l_02.DX1, sample_s_b_02.PL_UR_CA, sample_s_b_02.FEMALE, sample_s_b_02.MEDINCST,
```

```
sample_s_b_02.NEOMAT, sample_s_b_02.HOSPBRTH, sample_s_l_02.ASCHED, sample_s_b_02.DNR, sample_s_b_02.RACE ,COUNT(*)
FROM sample_s_b_02 JOIN sample_s_l_02 ON sample_s_b_02.PNUM_R = sample_s_l_02.PNUM_R WHERE ( NOT sample_s_l_02.Date
BETWEEN 9.0 AND 12.0 AND NOT sample_s_l_02.AWEEKEND < 1.0 AND sample_s_b_02.PL_UIC20 > '1' AND
sample_s_b_02.HISPANIC > '1' AND sample_s_b_02.DNR LIKE '0' OR sample_s_b_02.RACE IN ('1', '1', '2', '1', '1') AND
sample_s_l_02.PROCTYPE = 1.0 AND sample_s_l_02.DRGVER > 25.0 AND sample_s_b_02.FEMALE NOT LIKE '0' AND
sample_s_l_02.TOTCHG BETWEEN 77465.0 AND 162346.0 ) GROUP BY sample_s_b_02.PL_UIC20, sample_s_b_02.PL_RUCC2,
sample_s_b_02.PL_CBSA, sample_s_b_02.HISPANIC, sample_s_b_02.Homeless, sample_s_l_02.DX1, sample_s_b_02.PL_UR_CA,
sample_s_b_02.FEMALE, sample_s_b_02.MEDINCST, sample_s_b_02.NEOMAT, sample_s_b_02.HOSPBRTH, sample_s_l_02.ASCHED,
sample_s_b_02.DNR, sample_s_b_02.RACE
```

SQL result - syn:

	PL_UIC20	PL_RUCC2	PL_CBSA	HISPANIC	Homeless	DX1	PL_UR_CA	FEMALE	MEDINCST	NEOMAT	HOSPBRTH	ASCHED	DNR	RACE	COUNT(*)
0	10	9	0	2	0	41401	4	0	2	0	0	0	0	1	1
1	10	9	0	2	0	42731	4	1	3	0	0	0	0	1	1
2	11	7	0	2	0	1534	4	1	1	0	0	0	0	1	0
3	11	7	0	2	0	1888	4	1	1	0	0	0	0	1	1
4	11	7	0	2	0	1977	4	1	1	0	0	1	0	1	1

Number of returned records: 10773

Hellinger Distance = 0.626

SQL statement - real:

```
SELECT sample_r_b.FEMALE, sample_r_b.PL_UR_CA, sample_r_b.RACE, sample_r_b.Homeless, sample_r_b.NEOMAT,
sample_r_b.MEDINCST, sample_r_b.HISPANIC ,COUNT(*) FROM sample_r_b JOIN sample_r_l ON sample_r_b.PNUM_R =
sample_r_l.PNUM_R WHERE ( NOT sample_r_l.NECODE <= 2.0 AND sample_r_b.PL_UR_CA = '2' AND NOT sample_r_l.AWEEKEND
BETWEEN 1.0 AND 1.0 AND NOT sample_r_l.NDX >= 16.0 AND sample_r_b.RACE = '1' AND sample_r_l.TOTCHG = 6549.0 AND NOT
sample_r_b.FEMALE > '1' AND NOT sample_r_b.NEOMAT > '0' AND NOT sample_r_b.DNR = '0' AND sample_r_b.PL_CBSA = '2' AND
sample_r_l.DRGVER < 25.0 AND sample_r_l.PROCTYPE = 1.0 AND sample_r_l.Date >= 4.0 AND sample_r_b.PL_UIC20 > '1' AND NOT
sample_r_b.AGE > 65.0 AND NOT sample_r_l.DX1 > '44022' AND sample_r_l.MDC BETWEEN 9.0 AND 11.0 AND sample_r_b.PL_NCHS2
= '1' AND sample_r_b.Homeless IN ('0', '0', '0', '0', '0') AND NOT sample_r_l.ASCHED NOT LIKE '0' AND sample_r_b.HISPANIC IN ('1', '2',
'2', '2', '2') AND sample_r_l.HCUP_ED NOT BETWEEN 4.0 AND 4.0 OR sample_r_b.DIED NOT LIKE '0' ) GROUP BY sample_r_b.FEMALE,
sample_r_b.PL_UR_CA, sample_r_b.RACE, sample_r_b.Homeless, sample_r_b.NEOMAT, sample_r_b.MEDINCST, sample_r_b.HISPANIC
```

SQL result - real:

	FEMALE	PL_UR_CA	RACE	Homeless	NEOMAT	MEDINCST	HISPANIC	COUNT(*)
0	0	1	1	0	0	1	2	4
1	0	1	1	0	0	2	2	2
2	0	1	1	0	0	3	2	4
3	0	1	1	0	0	4	2	2
4	0	1	4	0	0	4	2	2

Number of returned records: 22

SQL statement - syn:

```
SELECT sample_s_b_02.FEMALE, sample_s_b_02.PL_UR_CA, sample_s_b_02.RACE, sample_s_b_02.Homeless, sample_s_b_02.NEOMAT,
sample_s_b_02.MEDINCST, sample_s_b_02.HISPANIC ,COUNT(*) FROM sample_s_b_02 JOIN sample_s_l_02 ON sample_s_b_02.PNUM_R =
sample_s_l_02.PNUM_R AND ( NOT sample_s_l_02.NECODE <= 2.0 AND sample_s_b_02.PL_UR_CA = '2' AND NOT
sample_s_l_02.AWEEKEND BETWEEN 1.0 AND 1.0 AND NOT sample_s_l_02.NDX >= 16.0 AND sample_s_b_02.RACE = '1' AND
sample_s_l_02.TOTCHG = 6549.0 AND NOT sample_s_b_02.FEMALE > '1' AND NOT sample_s_b_02.NEOMAT > '0' AND NOT
sample_s_b_02.DNR = '0' AND sample_s_b_02.PL_CBSA = '2' AND sample_s_l_02.DRGVER < 25.0 AND sample_s_l_02.PROCTYPE = 1.0
AND sample_s_l_02.Date >= 4.0 AND sample_s_b_02.PL_UIC20 > '1' AND NOT sample_s_b_02.AGE > 65.0 AND NOT sample_s_l_02.DX1
> '44022' AND sample_s_l_02.MDC BETWEEN 9.0 AND 11.0 AND sample_s_b_02.PL_NCHS2 = '1' AND sample_s_b_02.Homeless IN ('0',
'0', '0', '0', '0') AND NOT sample_s_l_02.ASCHED NOT LIKE '0' AND sample_s_b_02.HISPANIC IN ('1', '2', '2', '2', '2') AND
sample_s_l_02.HCUP_ED NOT BETWEEN 4.0 AND 4.0 OR sample_s_b_02.DIED NOT LIKE '0' ) GROUP BY sample_s_b_02.FEMALE,
sample_s_b_02.PL_UR_CA, sample_s_b_02.RACE, sample_s_b_02.Homeless, sample_s_b_02.NEOMAT, sample_s_b_02.MEDINCST,
sample_s_b_02.HISPANIC
```

SQL result - syn:

	FEMALE	PL_UR_CA	RACE	Homeless	NEOMAT	MEDINCST	HISPANIC	COUNT(*)
0	0	1	1	0	0	1	2	4
1	0	1	1	0	0	2	2	2
2	0	1	1	0	0	3	2	4
3	0	1	1	0	0	4	2	2
4	0	1	4	0	0	4	2	3

Number of returned records: 22

Hellinger Distance = 0.117

===== REAL VS SYNTHETIC VERSION 3 STARTS =====

SQL statement - real:

```
SELECT sample_r_b.PL_NCHS2, sample_r_l.ASCRED, sample_r_b.NEOMAT, sample_r_b.PL_UR_CA, sample_r_b.RACE,
sample_r_b.PL_RUCA4, sample_r_b.DIED, sample_r_b.HOSPBIRTH, sample_r_b.PL_RUCC2, sample_r_l.DX1, sample_r_b.MEDINCST,
sample_r_b.PL_CBSA, sample_r_b.PL_UIC20, sample_r_b.FEMALE ,COUNT(*) FROM sample_r_b JOIN sample_r_l ON
sample_r_b.PNUM_R = sample_r_l.PNUM_R AND ( sample_r_b.AGE BETWEEN 42.0 AND 49.0 AND sample_r_b.PL_UR_CA = '2' AND
sample_r_l.PROCTYPE = 1.0 ) GROUP BY sample_r_b.PL_NCHS2, sample_r_l.ASCRED, sample_r_b.NEOMAT, sample_r_b.PL_UR_CA,
sample_r_b.RACE, sample_r_b.PL_RUCA4, sample_r_b.DIED, sample_r_b.HOSPBIRTH, sample_r_b.PL_RUCC2, sample_r_l.DX1,
sample_r_b.MEDINCST, sample_r_b.PL_CBSA, sample_r_b.PL_UIC20, sample_r_b.FEMALE
```

SQL result - real:

	PL_NCHS2	ASCHED	NEOMAT	PL_UR_CA	RACE	PL_RUCA4	DIED	HOSPBIRTH	PL_RUCC2	DX1	MEDINCST	PL_CBSA	PL_UIC20	FEMALE	COUNT(*)
0	3	0	0	2	1	1	0	0	2	1120	3	2	2	0	1
1	3	0	0	2	1	1	0	0	2	1125	1	2	2	1	0
2	3	0	0	2	1	1	0	0	2	1125	2	2	2	0	1
3	3	0	0	2	1	1	0	0	2	11284	1	2	2	0	1
4	3	0	0	2	1	1	0	0	2	11284	1	2	2	1	0

Number of returned records: 8454

SQL statement - syn:

```
SELECT sample_s_b_03.PL_NCHS2, sample_s_l_03.ASCRED, sample_s_b_03.NEOMAT, sample_s_b_03.PL_UR_CA, sample_s_b_03.RACE,
sample_s_b_03.PL_RUCA4, sample_s_b_03.DIED, sample_s_b_03.HOSPBIRTH, sample_s_b_03.PL_RUCC2, sample_s_l_03.DX1,
sample_s_b_03.MEDINCST, sample_s_b_03.PL_CBSA, sample_s_b_03.PL_UIC20, sample_s_b_03.FEMALE ,COUNT(*) FROM
sample_s_b_03 JOIN sample_s_l_03 ON sample_s_b_03.PNUM_R = sample_s_l_03.PNUM_R WHERE ( sample_s_b_03.AGE BETWEEN 42.0
AND 49.0 AND sample_s_b_03.PL_UR_CA = '2' AND sample_s_l_03.PROCTYPE = 1.0 ) GROUP BY sample_s_b_03.PL_NCHS2,
sample_s_l_03.ASCRED, sample_s_b_03.NEOMAT, sample_s_b_03.PL_UR_CA, sample_s_b_03.RACE, sample_s_b_03.PL_RUCA4,
sample_s_b_03.DIED, sample_s_b_03.HOSPBIRTH, sample_s_b_03.PL_RUCC2, sample_s_l_03.DX1, sample_s_b_03.MEDINCST,
sample_s_b_03.PL_CBSA, sample_s_b_03.PL_UIC20, sample_s_b_03.FEMALE
```

SQL result - syn:

	PL_NCHS2	ASCHED	NEOMAT	PL_UR_CA	RACE	PL_RUCA4	DIED	HOSPBIRTH	PL_RUCC2	DX1	MEDINCST	PL_CBSA	PL_UIC20	FEMALE	COUNT(*)
0	3	0	0	2	1	1	0	0	2	1120	3	2	2	0	1
1	3	0	0	2	1	1	0	0	2	1125	1	2	2	1	1
2	3	0	0	2	1	1	0	0	2	1125	2	2	2	0	0
3	3	0	0	2	1	1	0	0	2	11284	1	2	2	0	1
4	3	0	0	2	1	1	0	0	2	11284	1	2	2	1	1

Number of returned records: 9042

Hellinger Distance = 0.665

SQL statement - real:

```
SELECT sample_r_b.HOSPBIRTH, sample_r_b.DNR, sample_r_b.PL_RUCC2, sample_r_b.PL_UR_CA, sample_r_b.Homeless,
sample_r_l.ASCRED, sample_r_b.RACE, sample_r_b.PL_CBSA, sample_r_b.PL_UIC20 ,COUNT(*) FROM sample_r_b JOIN sample_r_l ON
sample_r_b.PNUM_R = sample_r_l.PNUM_R WHERE ( sample_r_b.RACE <> '1' AND sample_r_l.PROCTYPE <> 1.0 AND
sample_r_b.FEMALE NOT IN ('0', '1', '0', '1', '1') AND sample_r_l.DX1 IN ('41401', '43310', '7384', '27651', '27651') AND NOT
sample_r_b.PL_RUCC2 LIKE '1' AND sample_r_b.MEDINCST <> '2' AND sample_r_l.AWEEKEND < 1.0 AND sample_r_l.HCUP_ED <> 4.0
AND NOT sample_r_l.LOS = 2.0 AND sample_r_b.NEOMAT IN ('0', '0', '0', '0', '0') AND sample_r_l.TOTCHG = 44464.0 AND NOT
sample_r_b.AGE NOT BETWEEN 59.0 AND 64.0 ) GROUP BY sample_r_b.HOSPBIRTH, sample_r_b.DNR, sample_r_b.PL_RUCC2,
sample_r_b.PL_UR_CA, sample_r_b.Homeless, sample_r_l.ASCRED, sample_r_b.RACE, sample_r_b.PL_CBSA, sample_r_b.PL_UIC20
```

No records returned

SQL statement - syn:

```
SELECT sample_s_b_03.HOSPBIRTH, sample_s_b_03.DNR, sample_s_b_03.PL_RUCC2, sample_s_b_03.PL_UR_CA,
sample_s_b_03.Homeless, sample_s_l_03.ASCRED, sample_s_b_03.RACE, sample_s_b_03.PL_CBSA, sample_s_b_03.PL_UIC20 ,COUNT(*) FROM
sample_s_b_03 JOIN sample_s_l_03 ON sample_s_b_03.PNUM_R = sample_s_l_03.PNUM_R AND ( sample_s_b_03.RACE <> '1' AND
sample_s_l_03.PROCTYPE <> 1.0 AND sample_s_b_03.FEMALE NOT IN ('0', '1', '0', '1', '1') AND sample_s_l_03.DX1 IN ('41401', '43310',
```

'7384', '27651', '27651') AND NOT sample_s_b_03.PL_RUCC2 LIKE '1' AND sample_s_b_03.MEDINCST <> '2' AND sample_s_l_03.AWEEKEND < 1.0 AND sample_s_l_03.HCUP_ED <> 4.0 AND NOT sample_s_l_03.LOS = 2.0 AND sample_s_b_03.NEOMAT IN ('0', '0', '0', '0', '0') AND sample_s_l_03.TOTCHG = 44464.0 AND NOT sample_s_b_03.AGE NOT BETWEEN 59.0 AND 64.0) GROUP BY sample_s_b_03.HOSPBRTH, sample_s_b_03.DNR, sample_s_b_03.PL_RUCC2, sample_s_b_03.PL_UR_CA, sample_s_b_03.Homeless, sample_s_l_03.ASCHED, sample_s_b_03.RACE, sample_s_b_03.PL_CBSA, sample_s_b_03.PL_UIC20

No records returned

Hellinger Distance = nan

SQL statement - real:

```
SELECT sample_r_b.PL_UIC20, sample_r_b.PL_CBSA, sample_r_l.ASCHED, sample_r_b.MEDINCST, sample_r_b.RACE,
sample_r_b.FEMALE, sample_r_b.PL_NCHS2, sample_r_b.Homeless, sample_r_l.DX1, sample_r_b.DIED, sample_r_b.PL_RUCC2,
sample_r_b.PL_UR_CA, sample_r_b.PL_RUCA4, sample_r_b.DNR, sample_r_b.HOSPBRTH, sample_r_b.NEOMAT,COUNT(*) FROM
sample_r_b JOIN sample_r_l ON sample_r_b.PNUM_R = sample_r_l.PNUM_R WHERE ( sample_r_b.DNR <> '0' AND sample_r_b.PL_UIC20
<> '1' AND sample_r_l.ASCHED LIKE '0' AND sample_r_l.NECODE >= 2.0 ) GROUP BY sample_r_b.PL_UIC20, sample_r_b.PL_CBSA,
sample_r_l.ASCHED, sample_r_b.MEDINCST, sample_r_b.RACE, sample_r_b.FEMALE, sample_r_b.PL_NCHS2, sample_r_b.Homeless,
sample_r_l.DX1, sample_r_b.DIED, sample_r_b.PL_RUCC2, sample_r_b.PL_UR_CA, sample_r_b.PL_RUCA4, sample_r_b.DNR,
sample_r_b.HOSPBRTH, sample_r_b.NEOMAT
```

SQL result - real:

	PL_UIC20	PL_CBSA	ASCHED	MEDINCST	RACE	FEMALE	PL_NCHS2	Homeless	DX1	DIED	PL_RUCC2	PL_UR_CA	PL_RUCA4	DNR	HOSPBRTH	NEOMAT	COUNT(*)
0	11	0	0	1	1	0	6	0	2761	0	7	4	3	1	0	0	0
1	11	0	0	1	1	0	6	0	29181	0	7	4	4	1	0	0	1
2	11	0	0	1	1	0	6	0	3840	0	7	4	3	1	0	0	0
3	11	0	0	1	1	0	6	0	41071	0	7	4	4	1	0	0	1
4	11	0	0	1	1	0	6	0	42731	0	7	4	3	1	0	0	0

Number of returned records: 863

SQL statement - syn:

```
SELECT sample_s_b_03.PL_UIC20, sample_s_b_03.PL_CBSA, sample_s_l_03.ASCHED, sample_s_b_03.MEDINCST, sample_s_b_03.RACE,
sample_s_b_03.FEMALE, sample_s_b_03.PL_NCHS2, sample_s_b_03.Homeless, sample_s_l_03.DX1, sample_s_b_03.DIED,
sample_s_b_03.PL_RUCC2, sample_s_b_03.PL_UR_CA, sample_s_b_03.PL_RUCA4, sample_s_b_03.DNR, sample_s_b_03.HOSPBRTH,
sample_s_b_03.NEOMAT,COUNT(*) FROM sample_s_b_03 JOIN sample_s_l_03 ON sample_s_b_03.PNUM_R = sample_s_l_03.PNUM_R
AND ( sample_s_b_03.DNR <> '0' AND sample_s_b_03.PL_UIC20 <> '1' AND sample_s_l_03.ASCHED LIKE '0' AND
sample_s_l_03.NECODE >= 2.0 ) GROUP BY sample_s_b_03.PL_UIC20, sample_s_b_03.PL_CBSA, sample_s_l_03.ASCHED,
sample_s_b_03.MEDINCST, sample_s_b_03.RACE, sample_s_b_03.FEMALE, sample_s_b_03.PL_NCHS2, sample_s_b_03.Homeless,
sample_s_l_03.DX1, sample_s_b_03.DIED, sample_s_b_03.PL_RUCC2, sample_s_b_03.PL_UR_CA, sample_s_b_03.PL_RUCA4,
sample_s_b_03.DNR, sample_s_b_03.HOSPBRTH, sample_s_b_03.NEOMAT
```

SQL result - syn:

	PL_UIC20	PL_CBSA	ASCHED	MEDINCST	RACE	FEMALE	PL_NCHS2	Homeless	DX1	DIED	PL_RUCC2	PL_UR_CA	PL_RUCA4	DNR	HOSPBRTH	NEOMAT	COUNT(*)
0	11	0	0	1	1	0	6	0	2761	0	7	4	3	1	0	0	1
1	11	0	0	1	1	0	6	0	29181	0	7	4	4	1	0	0	1
2	11	0	0	1	1	0	6	0	3840	0	7	4	3	1	0	0	1
3	11	0	0	1	1	0	6	0	41071	0	7	4	4	1	0	0	0
4	11	0	0	1	1	0	6	0	42731	0	7	4	3	1	0	0	1

Number of returned records: 776

Hellinger Distance = 0.698

SQL statement - real:

```
SELECT sample_r_l.ASCHED, sample_r_b.HISPANIC, sample_r_b.PL_RUCC2, sample_r_b.NEOMAT, sample_r_b.RACE,
sample_r_b.PL_NCHS2, sample_r_b.PL_RUCA4, sample_r_b.PL_UIC20, sample_r_b.MEDINCST, sample_r_b.Homeless, sample_r_b.DIED,
sample_r_b.HOSPBRTH, sample_r_b.PL_UR_CA, sample_r_l.DX1, sample_r_b.PL_CBSA, sample_r_b.DNR,COUNT(*) FROM sample_r_b
JOIN sample_r_l ON sample_r_b.PNUM_R = sample_r_l.PNUM_R WHERE ( NOT sample_r_b.MEDINCST <> '1' AND NOT
sample_r_l.DRGVER >= 24.0 AND sample_r_l.LOS NOT BETWEEN 2.0 AND 3.0 AND sample_r_b.HISPANIC <> '2' AND
sample_r_b.PL_RUCA4 <> '1' AND sample_r_l.AWEEKEND <> 1.0 AND NOT sample_r_b.PL_UIC20 = '1' AND sample_r_b.PL_NCHS2 = '2'
AND sample_r_l.ASCHED <> '0' AND NOT sample_r_b.PL_RUCC2 = '1' AND sample_r_l.NDX <= 1.0 AND NOT sample_r_l.NECODE = 2.0
OR sample_r_b.RACE <> '3' AND sample_r_b.PL_UR_CA = '1' AND NOT sample_r_l.DX1 <> '389' AND sample_r_l.TOTCHG BETWEEN
```

310077.0 AND 383320.0 OR NOT sample_r_l.PROCTYPE NOT BETWEEN 1.0 AND 1.0 OR sample_r_b.NEOMAT NOT LIKE '0' AND sample_r_b.AGE > 57.0 AND sample_r_l.Date <> 2.0 AND NOT sample_r_l.HCUP_ED = 4.0 AND sample_r_b.HOSPBIRTH IN ('0', '0', '0', '0', '0') AND sample_r_b.DIED <> '0' AND sample_r_b.PL_CBSA LIKE '2' OR sample_r_b.DNR IN ('0', '0', '0', '0') AND sample_r_b.FEMALE = '0' AND sample_r_b.Homeless = '0') GROUP BY sample_r_l.ASCHED, sample_r_b.HISPANIC, sample_r_b.PL_RUCC2, sample_r_b.NEOMAT, sample_r_b.RACE, sample_r_b.PL_NCHS2, sample_r_b.PL_RUCA4, sample_r_b.PL_UIC20, sample_r_b.MEDINCST, sample_r_b.Homeless, sample_r_b.DIED, sample_r_b.HOSPBIRTH, sample_r_b.PL_UR_CA, sample_r_l.DX1, sample_r_b.PL_CBSA, sample_r_b.DNR

SQL result - real:

	ASCHED	HISPANIC	PL_RUCC2	NEOMAT	RACE	PL_NCHS2	PL_RUCA4	PL_UIC20	MEDINCST	Homeless	DIED	HOSPBIRTH	PL_UR_CA	DX1	PL_CBSA	DNR	COUNT(*)
0	0	1	1	0	3	1	1	1	1	0	0	0	1	1119	2	0	1
1	0	1	1	0	3	1	1	1	1	0	0	0	1	1120	2	0	2
2	0	1	1	0	3	1	1	1	1	0	0	0	1	1122	2	0	10
3	0	1	1	0	3	1	1	1	1	0	0	0	1	1123	2	0	3
4	0	1	1	0	3	1	1	1	1	0	0	0	1	1124	2	0	2

Number of returned records: 135759

SQL statement - syn:

SELECT sample_s_l_03.ASCHED, sample_s_b_03.HISPANIC, sample_s_b_03.PL_RUCC2, sample_s_b_03.NEOMAT, sample_s_b_03.RACE, sample_s_b_03.PL_NCHS2, sample_s_b_03.PL_RUCA4, sample_s_b_03.PL_UIC20, sample_s_b_03.MEDINCST, sample_s_b_03.Homeless, sample_s_b_03.DIED, sample_s_b_03.HOSPBIRTH, sample_s_b_03.PL_UR_CA, sample_s_l_03.DX1, sample_s_b_03.PL_CBSA, sample_s_b_03.DNR, COUNT(*) FROM sample_s_b_03 JOIN sample_s_l_03 ON sample_s_b_03.PNUM_R = sample_s_l_03.PNUM_R AND (NOT sample_s_b_03.MEDINCST <> '1' AND NOT sample_s_b_03.DRGVER >= 24.0 AND sample_s_l_03.LOS NOT BETWEEN 2.0 AND 3.0 AND sample_s_b_03.HISPANIC <> '2' AND sample_s_b_03.PL_RUCA4 <> '1' AND sample_s_l_03.AWEEKEND <> 1.0 AND NOT sample_s_b_03.PL_UIC20 = '1' AND sample_s_b_03.PL_NCHS2 = '2' AND sample_s_l_03.ASCHED <> '0' AND NOT sample_s_b_03.PL_RUCC2 = '1' AND sample_s_l_03.NDX <= 1.0 AND NOT sample_s_l_03.NECODE = 2.0 OR sample_s_b_03.RACE <> '3' AND sample_s_b_03.PL_UR_CA = '1' AND NOT sample_s_l_03.DX1 <> '389' AND sample_s_l_03.TOTCHG BETWEEN 310077.0 AND 383320.0 OR NOT sample_s_l_03.PROCTYPE NOT BETWEEN 1.0 AND 1.0 OR sample_s_b_03.NEOMAT NOT LIKE '0' AND sample_s_b_03.AGE > 57.0 AND sample_s_l_03.Date <> 2.0 AND NOT sample_s_l_03.HCUP_ED = 4.0 AND sample_s_b_03.HOSPBIRTH IN ('0', '0', '0', '0', '0') AND sample_s_b_03.DIED <> '0' AND sample_s_b_03.PL_CBSA LIKE '2' OR sample_s_b_03.DNR IN ('0', '0', '0', '0', '0') AND sample_s_b_03.FEMALE = '0' AND sample_s_b_03.Homeless = '0') GROUP BY sample_s_l_03.ASCHED, sample_s_b_03.HISPANIC, sample_s_b_03.PL_RUCC2, sample_s_b_03.NEOMAT, sample_s_b_03.RACE, sample_s_b_03.PL_NCHS2, sample_s_b_03.PL_RUCA4, sample_s_b_03.PL_UIC20, sample_s_b_03.MEDINCST, sample_s_b_03.Homeless, sample_s_b_03.DIED, sample_s_b_03.HOSPBIRTH, sample_s_b_03.PL_UR_CA, sample_s_l_03.DX1, sample_s_b_03.PL_CBSA, sample_s_b_03.DNR

SQL result - syn:

	ASCHED	HISPANIC	PL_RUCC2	NEOMAT	RACE	PL_NCHS2	PL_RUCA4	PL_UIC20	MEDINCST	Homeless	DIED	HOSPBIRTH	PL_UR_CA	DX1	PL_CBSA	DNR	COUNT(*)
0	0	1	1	0	3	1	1	1	1	0	0	0	1	1119	2	0	0
1	0	1	1	0	3	1	1	1	1	0	0	0	1	1120	2	0	2
2	0	1	1	0	3	1	1	1	1	0	0	0	1	1122	2	0	4
3	0	1	1	0	3	1	1	1	1	0	0	0	1	1123	2	0	1
4	0	1	1	0	3	1	1	1	1	0	0	0	1	1124	2	0	2

Number of returned records: 158686

Hellinger Distance = 0.364

SQL statement - real:

SELECT sample_r_b.PL_RUCC2, sample_r_b.PL_UR_CA, sample_r_b.NEOMAT, sample_r_b.FEMALE, sample_r_b.MEDINCST, sample_r_b.Homeless, sample_r_b.HOSPBIRTH, sample_r_b.DIED, sample_r_b.PL_UIC20, sample_r_l.ASCHED, sample_r_b.PL_RUCA4, sample_r_b.HISPANIC, sample_r_b.PL_NCHS2, sample_r_b.RACE, sample_r_l.DX1, COUNT(*) FROM sample_r_b JOIN sample_r_l ON sample_r_b.PNUM_R = sample_r_l.PNUM_R WHERE (sample_r_l.NDX BETWEEN 12.0 AND 17.0 AND sample_r_l.Date <> 6.0 AND sample_r_b.PL_RUCC2 <> '1' AND sample_r_l.NECODE <= 1.0 AND sample_r_b.PL_NCHS2 LIKE '3' AND sample_r_l.DX1 <> '2706' AND sample_r_l.PROCTYPE BETWEEN 1.0 AND 1.0 AND sample_r_l.LOS < 3.0 AND sample_r_b.RACE NOT IN ('2', '1', '2', '1', '1') AND sample_r_b.PL_UIC20 <> '1' AND sample_r_l.HCUP_ED = 4.0) GROUP BY sample_r_b.PL_RUCC2, sample_r_b.PL_UR_CA, sample_r_b.NEOMAT, sample_r_b.FEMALE, sample_r_b.MEDINCST, sample_r_b.Homeless, sample_r_b.HOSPBIRTH, sample_r_b.DIED, sample_r_b.PL_UIC20, sample_r_l.ASCHED, sample_r_b.PL_RUCA4, sample_r_b.HISPANIC, sample_r_b.PL_NCHS2, sample_r_b.RACE, sample_r_l.DX1

SQL result - real:

	PL_RUCC2	PL_UR_CA	NEOMAT	FEMALE	MEDINCST	Homeless	HOSPBIRTH	DIED	PL_UIC20	ASCHED	PL_RUCA4	HISPANIC	PL_NCHS2	RACE	DX1	COUNT(*)
0	2	2	0	0	1	0	0	0	2	0	1	1	3	3	1519	1
1	2	2	0	0	1	0	0	0	2	0	1	1	3	3	1977	1
2	2	2	0	0	1	0	0	0	2	0	1	1	3	3	25060	1
3	2	2	0	0	1	0	0	0	2	0	1	1	3	3	25062	1
4	2	2	0	0	1	0	0	0	2	0	1	1	3	3	2766	1

Number of returned records: 227

SQL statement - syn:

```

SELECT sample_s_b_03.PL_RUCC2, sample_s_b_03.PL UR CA, sample_s_b_03.NEOMAT, sample_s_b_03.FEMALE,
sample_s_b_03.MEDINCST, sample_s_b_03.Homeless, sample_s_b_03.HOSPBIRTH, sample_s_b_03.DIED, sample_s_b_03.PL_UIC20,
sample_s_b_03.ASCHED, sample_s_b_03.PL_RUCA4, sample_s_b_03.HISPANIC, sample_s_b_03.PL_NCHS2, sample_s_b_03.RACE,
sample_s_b_03.DX1 ,COUNT(*) FROM sample_s_b_03 JOIN sample_s_l_03 ON sample_s_b_03.PNUM_R = sample_s_l_03.PNUM_R
WHERE ( sample_s_l_03.NDX BETWEEN 12.0 AND 17.0 AND sample_s_l_03.Date <> 6.0 AND sample_s_b_03.PL_RUCC2 <> '1' AND
sample_s_l_03.NECODE <= 1.0 AND sample_s_b_03.PL_NCHS2 LIKE '3' AND sample_s_l_03.DX1 <> '2706' AND
sample_s_l_03.PROCTYPE BETWEEN 1.0 AND 1.0 AND sample_s_l_03.LOS < 3.0 AND sample_s_b_03.RACE NOT IN ('2', '1', '2', '1', '1')
AND sample_s_b_03.PL_UIC20 <> '1' AND sample_s_l_03.HCUP_ED = 4.0 ) GROUP BY sample_s_b_03.PL_RUCC2,
sample_s_b_03.PL UR CA, sample_s_b_03.NEOMAT, sample_s_b_03.FEMALE, sample_s_b_03.MEDINCST, sample_s_b_03.Homeless,
sample_s_b_03.HOSPBIRTH, sample_s_b_03.DIED, sample_s_b_03.PL_UIC20, sample_s_l_03.ASCHED, sample_s_b_03.PL_RUCA4,
sample_s_b_03.HISPANIC, sample_s_b_03.PL_NCHS2, sample_s_b_03.RACE, sample_s_l_03.DX1

```

SQL result - syn:

	PL_RUCC2	PL UR CA	NEOMAT	FEMALE	MEDINCST	Homeless	HOSPBIRTH	DIED	PL_UIC20	ASCHED	PL_RUCA4	HISPANIC	PL_NCHS2	RACE	DX1	COUNT(*)
0	2	2	0	0	1	0	0	0	2	0	1	1	3	3	1519	0
1	2	2	0	0	1	0	0	0	2	0	1	1	3	3	1977	0
2	2	2	0	0	1	0	0	0	2	0	1	1	3	3	25060	1
3	2	2	0	0	1	0	0	0	2	0	1	1	3	3	25062	0
4	2	2	0	0	1	0	0	0	2	0	1	1	3	3	2766	0

Number of returned records: 255

Hellinger Distance = 0.739

SQL statement - real:

```

SELECT sample_r_b.PL_CBSA, sample_r_b.PL UR CA, sample_r_b.HOSPBIRTH, sample_r_b.PL_UIC20, sample_r_b.PL_RUCC2,
sample_r_b.PL_RUCA4, sample_r_b.DIED, sample_r_b.NEOMAT, sample_r_l.ASCHED, sample_r_b.Homeless, sample_r_b.DNR,
sample_r_b.HISPANIC, sample_r_b.MEDINCST, sample_r_b.PL_NCHS2, sample_r_b.RACE, sample_r_b.FEMALE, sample_r_l.DX1
,COUNT(*) FROM sample_r_b JOIN sample_r_l ON sample_r_b.PNUM_R = sample_r_l.PNUM_R WHERE ( sample_r_b.PL_RUCA4 = '1'
AND sample_r_l.HCUP_ED BETWEEN 4.0 AND 4.0 AND sample_r_b.PL_UIC20 LIKE '2' OR sample_r_b.NEOMAT NOT IN ('0', '0', '0', '0',
'0') AND sample_r_b.HOSPBIRTH IN ('0', '0', '0', '0', '0') AND sample_r_b.b.DNR <> '0' AND sample_r_b.PL_RUCC2 LIKE '1' AND
sample_r_l.NECODE = 2.0 AND NOT sample_r_l.TOTCHG = 11173.0 AND sample_r_l.ASCHED = '0' AND sample_r_b.AGE <> 43.0 AND
NOT sample_r_l.NDX = 7.0 AND sample_r_b.RACE IN ('1', '1', '3', '1', '1') AND sample_r_l.DRGVER = 24.0 AND sample_r_b.HISPANIC = '1'
AND sample_r_l.MDC < 1.0 AND sample_r_b.PL_CBSA NOT LIKE '2' OR sample_r_l.AWEEKEND <= 1.0 AND sample_r_b.DIED IN ('0', '0',
'0', '0', '0') AND sample_r_b.FEMALE IN ('1', '1', '0', '0', '1') AND NOT sample_r_l.PROCTYPE BETWEEN 1.0 AND 1.0 AND
sample_r_b.MEDINCST LIKE '4' ) GROUP BY sample_r_b.PL_CBSA, sample_r_b.PL UR CA, sample_r_b.HOSPBIRTH,
sample_r_b.PL_UIC20, sample_r_b.PL_RUCC2, sample_r_b.PL_RUCA4, sample_r_b.DIED, sample_r_b.NEOMAT, sample_r_l.ASCHED,
sample_r_b.Homeless, sample_r_b.DNR, sample_r_b.HISPANIC, sample_r_b.MEDINCST, sample_r_b.PL_NCHS2, sample_r_b.RACE,
sample_r_b.FEMALE, sample_r_l.DX1

```

SQL result - real:

	PL_CBSA	PL UR CA	HOSPBIRTH	PL_UIC20	PL_RUCC2	PL_RUCA4	DIED	NEOMAT	ASCHED	Homeless	DNR	HISPANIC	MEDINCST	PL_NCHS2	RACE	FEMALE	DX1	COUNT(*)
0	0	4	0	11	7	3	0	0	0	0	0	2	4	6	1	1	4139	0
1	0	4	0	11	7	3	0	0	0	0	0	2	4	6	1	1	5990	0
2	0	4	0	12	7	3	0	0	1	0	0	2	4	6	1	0	496	1
3	0	4	0	12	7	3	0	0	1	0	0	2	4	6	1	0	7806	1
4	0	4	0	12	7	4	0	0	0	0	0	2	4	6	1	0	78659	1

Number of returned records: 37397

SQL statement - syn:

```

SELECT sample_s_b_03.PL_CBSA, sample_s_b_03.PL UR CA, sample_s_b_03.HOSPBIRTH, sample_s_b_03.PL_UIC20,
sample_s_b_03.PL_RUCC2, sample_s_b_03.PL_RUCA4, sample_s_b_03.DIED, sample_s_b_03.NEOMAT, sample_s_l_03.ASCHED,
sample_s_b_03.Homeless, sample_s_b_03.DNR, sample_s_b_03.HISPANIC, sample_s_b_03.MEDINCST, sample_s_b_03.PL_NCHS2,
sample_s_b_03.RACE, sample_s_b_03.FEMALE, sample_s_l_03.DX1 ,COUNT(*) FROM sample_s_b_03 JOIN sample_s_l_03 ON
sample_s_b_03.PNUM_R = sample_s_l_03.PNUM_R WHERE ( sample_s_b_03.PL_RUCA4 = '1' AND sample_s_l_03.HCUP_ED BETWEEN
4.0 AND 4.0 AND sample_s_b_03.PL_UIC20 LIKE '2' OR sample_s_b_03.NEOMAT NOT IN ('0', '0', '0', '0', '0') AND
sample_s_b_03.HOSPBIRTH IN ('0', '0', '0', '0', '0') AND sample_s_b_03.b.DNR <> '0' AND sample_s_b_03.PL_RUCC2 LIKE '1' AND
sample_s_l_03.NECODE = 2.0 AND NOT sample_s_l_03.TOTCHG = 11173.0 AND sample_s_l_03.ASCHED = '0' AND sample_s_b_03.AGE
<> 43.0 AND NOT sample_s_l_03.NDX = 7.0 AND sample_s_b_03.RACE IN ('1', '1', '3', '1', '1') AND sample_s_l_03.DRGVER = 24.0 AND
sample_s_b_03.HISPANIC = '1' AND sample_s_l_03.MDC < 1.0 AND sample_s_b_03.PL_CBSA NOT LIKE '2' OR
sample_s_l_03.AWEEKEND <= 1.0 AND sample_s_b_03.DIED IN ('0', '0', '0', '0', '0') AND sample_s_b_03.FEMALE IN ('1', '1', '0', '0', '1') AND
NOT sample_s_l_03.PROCTYPE BETWEEN 1.0 AND 1.0 AND sample_s_b_03.MEDINCST LIKE '4' ) GROUP BY sample_s_b_03.PL_CBSA,
sample_s_b_03.PL UR CA, sample_s_b_03.HOSPBIRTH, sample_s_b_03.PL_UIC20, sample_s_b_03.PL_RUCC2, sample_s_b_03.PL_RUCA4,
sample_s_b_03.DIED, sample_s_b_03.NEOMAT, sample_s_l_03.ASCHED, sample_s_b_03.Homeless, sample_s_b_03.DNR,

```

sample_s_b_03.HISPANIC, sample_s_b_03.MEDINCST, sample_s_b_03.PL_NCHS2, sample_s_b_03.RACE, sample_s_b_03.FEMALE, sample_s_b_03.DX1

SQL result - syn:

PL_CBSA	PL_UR_CA	HOSPBRTH	PL_UIC20	PL_RUCC2	PL_RUCA4	DIED	NEOMAT	ASCHED	Homeless	DNR	HISPANIC	MEDINCST	PL_NCHS2	RACE	FEMALE	DX1	COUNT(*)	
0	0	4	0	11	7	3	0	0	0	0	2	4	6	1	1	4139	1	
1	0	4	0	11	7	3	0	0	0	0	2	4	6	1	1	5990	1	
2	0	4	0	12	7	3	0	0	1	0	0	2	4	6	1	0	496	1
3	0	4	0	12	7	3	0	0	1	0	0	2	4	6	1	0	7806	1
4	0	4	0	12	7	4	0	0	0	0	0	2	4	6	1	0	78659	1

Number of returned records: 43688

Hellinger Distance = 0.406

SQL statement - real:

```
SELECT sample_r_b.Homeless, sample_r_b.PL_CBSA, sample_r_b.HISPANIC, sample_r_b.MEDINCST, sample_r_b.PL_UR_CA,
sample_r_l.DX1, sample_r_b.PL_RUCC2,COUNT(*) FROM sample_r_b JOIN sample_r_l ON sample_r_b.PNUM_R = sample_r_l.PNUM_R
AND ( NOT sample_r_b.PL_NCHS2 LIKE '1' AND sample_r_l.DX1 NOT IN ('V5789','56081','7384','5845','43491') AND sample_r_b.RACE
NOT IN ('1','1','1','1','1') AND sample_r_b.PL_RUCC2 = '2' AND sample_r_l.LOS <= 8.0 OR sample_r_b.NEOMAT LIKE '0' AND
sample_r_b.DNR LIKE '0' OR sample_r_l.PROCTYPE > 1.0 AND sample_r_b.PL_RUCA4 = '1' AND sample_r_b.MEDINCST = '4' AND
sample_r_l.AWEEKEND < 1.0 AND sample_r_b.Homeless = '0' AND sample_r_b.PL_UR_CA <> '1' AND sample_r_b.PL_CBSA IN ('2','2','2',
'2','2') ) GROUP BY sample_r_b.Homeless, sample_r_b.PL_CBSA, sample_r_b.HISPANIC, sample_r_b.MEDINCST, sample_r_b.PL_UR_CA,
sample_r_l.DX1, sample_r_b.PL_RUCC2
```

SQL result - real:

Homeless	PL_CBSA	HISPANIC	MEDINCST	PL_UR_CA	DX1	PL_RUCC2	COUNT(*)
0	0	1	1	4	1120	6	0
1	0	0	1	4	11284	6	1
2	0	0	1	4	1550	6	3
3	0	0	1	4	1809	7	0
4	0	0	1	4	1972	6	3

Number of returned records: 62477

SQL statement - syn:

```
SELECT sample_s_b_03.Homeless, sample_s_b_03.PL_CBSA, sample_s_b_03.HISPANIC, sample_s_b_03.MEDINCST,
sample_s_b_03.PL_UR_CA, sample_s_b_03.DX1, sample_s_b_03.PL_RUCC2,COUNT(*) FROM sample_s_b_03 JOIN sample_s_l_03 ON
sample_s_b_03.PNUM_R = sample_s_l_03.PNUM_R WHERE ( NOT sample_s_b_03.PL_NCHS2 LIKE '1' AND sample_s_l_03.DX1 NOT IN
('V5789','56081','7384','5845','43491') AND sample_s_b_03.RACE NOT IN ('1','1','1','1','1') AND sample_s_b_03.PL_RUCC2 = '2' AND
sample_s_l_03.LOS <= 8.0 OR sample_s_b_03.NEOMAT LIKE '0' AND sample_s_b_03.DNR LIKE '0' OR sample_s_l_03.PROCTYPE > 1.0
AND sample_s_b_03.PL_RUCA4 = '1' AND sample_s_b_03.MEDINCST = '4' AND sample_s_l_03.AWEEKEND < 1.0 AND
sample_s_b_03.Homeless = '0' AND sample_s_b_03.PL_UR_CA <> '1' AND sample_s_b_03.PL_CBSA IN ('2','2','2','2','2') ) GROUP BY
sample_s_b_03.Homeless, sample_s_b_03.PL_CBSA, sample_s_b_03.HISPANIC, sample_s_b_03.MEDINCST, sample_s_b_03.PL_UR_CA,
sample_s_l_03.DX1, sample_s_b_03.PL_RUCC2
```

SQL result - syn:

Homeless	PL_CBSA	HISPANIC	MEDINCST	PL_UR_CA	DX1	PL_RUCC2	COUNT(*)
0	0	1	1	4	1120	6	1
1	0	0	1	4	11284	6	1
2	0	0	1	4	1550	6	0
3	0	0	1	4	1809	7	1
4	0	0	1	4	1972	6	2

Number of returned records: 67684

Hellinger Distance = 0.222

SQL statement - real:

```
SELECT sample_r_b.DNR, sample_r_b.Homeless, sample_r_b.PL_UIC20, sample_r_l.DX1, sample_r_b.MEDINCST, sample_r_b.HISPANIC,
sample_r_l.ASCHED, sample_r_b.DIED, sample_r_b.PL_NCHS2, sample_r_b.PL_UR_CA,COUNT(*) FROM sample_r_b JOIN sample_r_l ON
sample_r_b.PNUM_R = sample_r_l.PNUM_R WHERE ( sample_r_l.TOTCHG >= 23716.0 ) GROUP BY sample_r_b.DNR,
sample_r_b.Homeless, sample_r_b.PL_UIC20, sample_r_l.DX1, sample_r_b.MEDINCST, sample_r_b.HISPANIC, sample_r_l.ASCHED,
sample_r_b.DIED, sample_r_b.PL_NCHS2, sample_r_b.PL_UR_CA
```

SQL result - real:

DNR	Homeless	PL_UIC20	DX1	MEDINCST	HISPANIC	ASCHED	DIED	PL_NCHS2	PL_UR_CA	COUNT(*)
0	0	0	1	101	1	2	0	0	1	1
1	0	0	1	101	1	2	1	0	1	1
2	0	0	1	101	2	1	1	0	1	1
3	0	0	1	101	2	2	0	0	1	1
4	0	0	1	1083	3	2	0	0	1	1

Number of returned records: 75455

SQL statement - syn:

```
SELECT sample_s_b_03.DNR, sample_s_b_03.Homeless, sample_s_b_03.PL_UIC20, sample_s_l_03.DX1, sample_s_b_03.MEDINCST,
sample_s_b_03.HISPANIC, sample_s_l_03.ASCHED, sample_s_b_03.DIED, sample_s_b_03.PL_NCHS2, sample_s_b_03.PL_UR_CA
,COUNT(*) FROM sample_s_b_03 JOIN sample_s_l_03 ON sample_s_b_03.PNUM_R = sample_s_l_03.PNUM_R WHERE (
sample_s_l_03.TOTCHG >= 23716.0 ) GROUP BY sample_s_b_03.DNR, sample_s_b_03.Homeless, sample_s_b_03.PL_UIC20,
sample_s_l_03.DX1, sample_s_b_03.MEDINCST, sample_s_b_03.HISPANIC, sample_s_l_03.ASCHED, sample_s_b_03.DIED,
sample_s_b_03.PL_NCHS2, sample_s_b_03.PL_UR_CA
```

SQL result - syn:

DNR	Homeless	PL_UIC20	DX1	MEDINCST	HISPANIC	ASCHED	DIED	PL_NCHS2	PL_UR_CA	COUNT(*)
0	0	0	1	101	1	2	0	0	1	1
1	0	0	1	101	1	2	1	0	1	1
2	0	0	1	101	2	1	1	0	1	1
3	0	0	1	101	2	2	0	0	1	1
4	0	0	1	1083	3	2	0	0	1	1

Number of returned records: 80007

Hellinger Distance = 0.276

SQL statement - real:

```
SELECT sample_r_b.RACE, sample_r_b.FEMALE, sample_r_b.PL_RUCC2, sample_r_b.NEOMAT, sample_r_b.PL_UR_CA,
sample_r_b.PL_RUCA4, sample_r_b.PL_NCHS2,COUNT(*) FROM sample_r_b JOIN sample_r_l ON sample_r_b.PNUM_R =
sample_r_l.PNUM_R AND ( NOT sample_r_b.PL_RUCA4 IN ('1', '1', '1', '1', '1') AND sample_r_l.LOS >= 4.0 AND sample_r_l.PROCTYPE =
1.0 AND sample_r_l.ASCHED <> '0' AND sample_r_b.NEOMAT <> '0' AND sample_r_b.HISPANIC NOT IN ('1', '2', '2', '2', '2') OR
sample_r_b.DIED NOT LIKE '0' AND sample_r_b.PL_RUCC2 NOT IN ('1', '1', '1', '1', '1') AND NOT sample_r_b.AGE = 52.0 AND NOT
sample_r_l.NDX < 12.0 AND sample_r_l.DRGVER <> 24.0 AND sample_r_l.Date = 1.0 OR NOT sample_r_b.Homeless NOT IN ('0', '0', '0', '0',
'0') OR NOT sample_r_b.PL_UR_CA LIKE '1' AND sample_r_l.TOTCHG BETWEEN 9692.0 AND 46110.0 AND sample_r_b.FEMALE LIKE
'0' AND NOT sample_r_b.HOSPBRTH NOT LIKE '0' AND NOT sample_r_l.AWEEKEND = 1.0 AND NOT sample_r_l.MDC <= 5.0 AND
sample_r_l.NECODE = 2.0 OR sample_r_b.PL_NCHS2 LIKE '4' AND NOT sample_r_b.PL_UIC20 NOT IN ('2', '1', '1', '1', '1') AND
sample_r_l.HCUP_ED NOT BETWEEN 4.0 AND 4.0 AND NOT sample_r_l.DX1 = '64893' AND NOT sample_r_b.RACE IN ('1', '3', '1', '1', '3')
AND sample_r_l.NPR >= 2.0 AND sample_r_b.MEDINCST LIKE '4' AND sample_r_b.PL_CBSA LIKE '2' AND sample_r_b.DNR NOT IN ('0',
'0', '0', '0', '0') ) GROUP BY sample_r_b.RACE, sample_r_b.FEMALE, sample_r_b.PL_RUCC2, sample_r_b.NEOMAT, sample_r_b.PL_UR_CA,
sample_r_b.PL_RUCA4, sample_r_b.PL_NCHS2
```

SQL result - real:

RACE	FEMALE	PL_RUCC2	NEOMAT	PL_UR_CA	PL_RUCA4	PL_NCHS2	COUNT(*)
0	1	0	1	0	1	1	140203
1	1	0	1	0	1	2	27516
2	1	0	1	0	1	2	168
3	1	0	1	0	1	2	3175
4	1	0	1	0	1	3	38

Number of returned records: 691

SQL statement - syn:

```
SELECT sample_s_b_03.RACE, sample_s_b_03.FEMALE, sample_s_b_03.PL_RUCC2, sample_s_b_03.NEOMAT, sample_s_b_03.PL_UR_CA,
sample_s_b_03.PL_RUCA4, sample_s_b_03.PL_NCHS2,COUNT(*) FROM sample_s_b_03 JOIN sample_s_l_03 ON sample_s_b_03.PNUM_R =
sample_s_l_03.PNUM_R WHERE ( NOT sample_s_b_03.PL_RUCA4 IN ('1', '1', '1', '1', '1') AND sample_s_l_03.LOS >= 4.0 AND
sample_s_l_03.PROCTYPE = 1.0 AND sample_s_l_03.ASCHED <> '0' AND sample_s_b_03.NEOMAT <> '0' AND sample_s_b_03.HISPANIC
NOT IN ('1', '2', '2', '2', '2') OR sample_s_b_03.DIED NOT LIKE '0' AND sample_s_b_03.PL_RUCC2 NOT IN ('1', '1', '1', '1', '1') AND NOT
sample_s_b_03.AGE = 52.0 AND NOT sample_s_l_03.NDX < 12.0 AND sample_s_l_03.DRGVER <> 24.0 AND sample_s_l_03.Date = 1.0 OR
NOT sample_s_b_03.Homeless NOT IN ('0', '0', '0', '0', '0') OR NOT sample_s_b_03.PL_UR_CA LIKE '1' AND sample_s_l_03.TOTCHG
BETWEEN 9692.0 AND 46110.0 AND sample_s_b_03.FEMALE LIKE '0' AND NOT sample_s_b_03.HOSPBRTH NOT LIKE '0' AND NOT
sample_s_l_03.AWEEKEND = 1.0 AND NOT sample_s_l_03.MDC <= 5.0 AND sample_s_l_03.NECODE = 2.0 OR sample_s_b_03.PL_NCHS2
LIKE '4' AND NOT sample_s_b_03.PL_UIC20 NOT IN ('2', '1', '1', '1', '1') AND sample_s_l_03.HCUP_ED NOT BETWEEN 4.0 AND 4.0 AND
NOT sample_s_l_03.DX1 = '64893' AND NOT sample_s_b_03.RACE IN ('1', '3', '1', '1', '3') AND sample_s_l_03.NPR >= 2.0 AND
sample_s_b_03.MEDINCST LIKE '4' AND sample_s_b_03.PL_CBSA LIKE '2' AND sample_s_b_03.DNR NOT IN ('0', '0', '0', '0', '0') ) GROUP
BY sample_s_b_03.RACE, sample_s_b_03.FEMALE, sample_s_b_03.PL_RUCC2, sample_s_b_03.NEOMAT, sample_s_b_03.PL_UR_CA,
```

sample_s_b_03.PL_RUCA4, sample_s_b_03.PL_NCHS2

SQL result - syn:

	RACE	FEMALE	PL_RUCC2	NEOMAT	PL_UR_CA	PL_RUCA4	PL_NCHS2	COUNT(*)
0	1	0	1	0	1	1	1	139614
1	1	0	1	0	1	1	2	27754
2	1	0	1	0	1	2	1	163
3	1	0	1	0	1	2	2	3219
4	1	0	1	0	1	3	1	39

Number of returned records: 691

Hellinger Distance = 0.010

SQL statement - real:

```
SELECT sample_r_l.DX1, sample_r_b.PL_RUCA4, sample_r_b.DNR, sample_r_b.DIED, sample_r_b.MEDINCST, sample_r_b.NEOMAT,
sample_r_b.PL_NCHS2, sample_r_b.PL_RUCC2,COUNT(*) FROM sample_r_b JOIN sample_r_l ON sample_r_b.PNUM_R =
sample_r_l.PNUM_R AND ( sample_r_b.NEOMAT <> '0' ) GROUP BY sample_r_l.DX1, sample_r_b.PL_RUCA4, sample_r_b.DNR,
sample_r_b.DIED, sample_r_b.MEDINCST, sample_r_b.NEOMAT, sample_r_b.PL_NCHS2, sample_r_b.PL_RUCC2
```

SQL result - real:

	DX1	PL_RUCA4	DNR	DIED	MEDINCST	NEOMAT	PL_NCHS2	PL_RUCC2	COUNT(*)
0	1105	1	0	0	1	1	1	1	0
1	1105	1	0	0	3	1	1	1	0
2	1119	1	0	0	2	1	2	1	0
3	1120	1	0	0	2	1	3	2	0
4	1120	1	0	0	3	1	1	1	0

Number of returned records: 5601

SQL statement - syn:

```
SELECT sample_s_l_03.DX1, sample_s_b_03.PL_RUCA4, sample_s_b_03.DNR, sample_s_b_03.DIED, sample_s_b_03.MEDINCST,
sample_s_b_03.NEOMAT, sample_s_b_03.PL_NCHS2, sample_s_b_03.PL_RUCC2,COUNT(*) FROM sample_s_b_03 JOIN sample_s_l_03
ON sample_s_b_03.PNUM_R = sample_s_l_03.PNUM_R AND ( sample_s_b_03.NEOMAT <> '0' ) GROUP BY sample_s_l_03.DX1,
sample_s_b_03.PL_RUCA4, sample_s_b_03.DNR, sample_s_b_03.DIED, sample_s_b_03.MEDINCST, sample_s_b_03.NEOMAT,
sample_s_b_03.PL_NCHS2, sample_s_b_03.PL_RUCC2
```

SQL result - syn:

	DX1	PL_RUCA4	DNR	DIED	MEDINCST	NEOMAT	PL_NCHS2	PL_RUCC2	COUNT(*)
0	1105	1	0	0	1	1	1	1	1
1	1105	1	0	0	3	1	1	1	1
2	1119	1	0	0	2	1	2	1	1
3	1120	1	0	0	2	1	3	2	1
4	1120	1	0	0	3	1	1	1	1

Number of returned records: 14119

Hellinger Distance = 0.632
