

Real								
	education	workclass	marital.status	relationship	native.country	race	SUM(`hours.per.week`)	COUNT(*)
196	10th	State-gov	Never-married	Not-in-family	United-States	White	nan	nan
341	11th	Private	Never-married	Other-relative	Puerto-Rico	White	40.000000	1.000000
2168	HS-grad	?	Never-married	Not-in-family	Peru	Black	nan	nan
2132	HS-grad	?	Married-civ-spouse	Other-relative	Columbia	Black	nan	nan
944	Assoc-acdm	Federal-gov	Separated	Unmarried	United-States	White	40.000000	1.000000

Synthetic								
	education	workclass	marital.status	relationship	native.country	race	SUM(`hours.per.week`)	COUNT(*)
196	10th	State-gov	Never-married	Not-in-family	United-States	White	39.987552	1
341	11th	Private	Never-married	Other-relative	Puerto-Rico	White	79.068085	2
2168	HS-grad	?	Never-married	Not-in-family	Peru	Black	40.020854	1
2132	HS-grad	?	Married-civ-spouse	Other-relative	Columbia	Black	40.020158	1
944	Assoc-acdm	Federal-gov	Separated	Unmarried	United-States	White	40.024314	1

SQL for Real:  
SELECT education,workclass,`marital.status`,relationship,`native.country`,race,SUM(`hours.per.week`), COUNT(\*) FROM C1 WHERE (sex <> 'Male') GROUP BY education,workclass,`marital.status`,relationship,`native.country`,race

Resulted in 2769 records

SQL for Synthetic:  
SELECT education,workclass,`marital.status`,relationship,`native.country`,race,SUM(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE (sex <> 'Male') GROUP BY education,workclass,`marital.status`,relationship,`native.country`,race

Resulted in 4276 records

Normalized Euclidean distance for (`hours.per.week`): 33.0

Hellinger Distance: 0.237

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Real											
	marital.status	education	relationship	workclass	income	race	sex	native.country	occupation	AVG(fnlwgt)	COUNT(*)
2548	Divorced	Masters	Unmarried	Private	<=50K	White	Male	United-States	Adm-clerical	113323.000000	1.000000
11502	Never-married	Bachelors	Not-in-family	State-gov	<=50K	Black	Female	Nicaragua	Adm-clerical	nan	nan
12169	Never-married	HS-grad	Not-in-family	Private	<=50K	Black	Male	United-States	Adm-clerical	216187.500000	6.000000
6094	Married-civ-spouse	HS-grad	Husband	?	<=50K	White	Male	Hungary	?	nan	nan
9781	Never-married	11th	Own-child	Private	<=50K	White	Female	United-States	Protective-serv	154097.000000	2.000000

Synthetic											
	marital.status	education	relationship	workclass	income	race	sex	native.country	occupation	AVG(fnlwgt)	COUNT(*)
2548	Divorced	Masters	Unmarried	Private	<=50K	White	Male	United-States	Adm-clerical	179784.544501	1
11502	Never-married	Bachelors	Not-in-family	State-gov	<=50K	Black	Female	Nicaragua	Adm-clerical	179668.147338	1
12169	Never-married	HS-grad	Not-in-family	Private	<=50K	Black	Male	United-States	Adm-clerical	186389.722403	4
6094	Married-civ-spouse	HS-grad	Husband	?	<=50K	White	Male	Hungary	?	180281.934249	2
9781	Never-married	11th	Own-child	Private	<=50K	White	Female	United-States	Protective-serv	198448.023388	1

SQL for Real:  
SELECT `marital.status`,education,relationship,workclass,income,race,sex,`native.country`,occupation,AVG(fnlwgt), COUNT(\*) FROM C1 WHERE (education IN ('7th-8th', 'Some-college', 'Assoc-acdm', '1st-4th', 'Masters', 'HS-grad', 'Bachelors', '10th', 'Assoc-voc', '12th', 'Doctorate', '9th', 'Prof-school', '11th', 'Preschool', '5th-6th')) OR (income LIKE '<=50K' OR age = 34) OR (`marital.status` = 'Married-civ-spouse' OR fnlwgt <= 325374) OR (race <> 'White' OR sex <> 'Male') OR (occupation IN ('Adm-clerical', 'Other-service', 'Tech-support', 'Armed-Forces', 'Prof-specialty', 'Exec-managerial', '?') OR relationship = 'Not-in-family') AND (`hours.per.week` = 2 AND capital >= 0) GROUP BY `marital.status`,education,relationship,workclass,income,race,sex,`native.country`,occupation

Resulted in 12664 records

SQL for Synthetic:  
SELECT `marital.status`,education,relationship,workclass,income,race,sex,`native.country`,occupation,AVG(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (education IN ('7th-8th', 'Some-college', 'Assoc-acdm', '1st-4th', 'Masters', 'HS-grad', 'Bachelors', '10th', 'Assoc-voc', '12th', 'Doctorate', '9th', 'Prof-school', '11th', 'Preschool', '5th-6th')) OR (income LIKE '<=50K' OR age = 34) OR (`marital.status` = 'Married-civ-spouse' OR fnlwgt <= 325374) OR (race <> 'White' OR sex <> 'Male') OR (occupation IN ('Adm-clerical', 'Other-service', 'Tech-support', 'Armed-Forces', 'Prof-specialty', 'Exec-managerial', '?') OR relationship = 'Not-in-family') AND (`hours.per.week` = 2 AND capital >= 0) GROUP BY `marital.status`,education,relationship,workclass,income,race,sex,`native.country`,occupation

Resulted in 17127 records

Normalized Euclidean distance for (fnlwgt): 64.61

Hellinger Distance: 0.252

=====

Real											
	occupation	sex	race	marital.status	income	relationship	education	native.country	workclass	SUM(`hours.per.week`)	COUNT(*)
Synthetic											
	occupation	sex	race	marital.status	income	relationship	education	native.country	workclass	SUM(`hours.per.week`)	COUNT(*)

SQL for Real:  
SELECT occupation,sex,race,`marital.status`,income,relationship,education,`native.country`,workclass,SUM(`hours.per.week`), COUNT(\*) FROM C1 WHERE (`marital.status` IN ('Divorced', 'Married-AF-spouse', 'Widowed', 'Never-married', 'Married-spouse-absent', 'Married-civ-spouse')) AND (race = 'White' AND fnlwgt BETWEEN 180052 AND 177487) GROUP BY occupation,sex,race,`marital.status`,income,relationship,education,`native.country`,workclass

Resulted in 0 records

SQL for Synthetic:  
SELECT occupation,sex,race,`marital.status`,income,relationship,education,`native.country`,workclass,SUM(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE (`marital.status` IN ('Divorced', 'Married-AF-spouse', 'Widowed', 'Never-married', 'Married-spouse-absent', 'Married-civ-spouse')) AND (race = 'White' AND fnlwgt BETWEEN 180052 AND 177487) GROUP BY occupation,sex,race,`marital.status`,income,relationship,education,`native.country`,workclass

Resulted in 0 records

Normalized Euclidean distance for (`hours.per.week`): nan

Hellinger Distance: nan

=====

Real								
	sex	education	workclass	marital.status	race	relationship	income	SUM(age) COUNT(*)
1824	Female	Some-college	?	Never-married	Amer-Indian-Eskimo	Not-in-family	<=50K	45 2
301	Female	1st-4th	?	Widowed	Black	Not-in-family	<=50K	90 1
3771	Male	Masters	Local-gov	Divorced	Black	Not-in-family	<=50K	122 3
2960	Male	Assoc-voc	Private	Never-married	Asian-Pac-Islander	Own-child	<=50K	153 6
1989	Female	Some-college	Private	Married-spouse-absent	White	Own-child	<=50K	104 4

Synthetic								
	sex	education	workclass	marital.status	race	relationship	income	SUM(age) COUNT(*)
1824	Female	Some-college	?	Never-married	Amer-Indian-Eskimo	Not-in-family	<=50K	nan nan
301	Female	1st-4th	?	Widowed	Black	Not-in-family	<=50K	nan nan
3771	Male	Masters	Local-gov	Divorced	Black	Not-in-family	<=50K	36.000000 1.000000
2960	Male	Assoc-voc	Private	Never-married	Asian-Pac-Islander	Own-child	<=50K	nan nan
1989	Female	Some-college	Private	Married-spouse-absent	White	Own-child	<=50K	55.000000 2.000000

SQL for Real:  
SELECT sex,education,workclass,`marital.status`,race,relationship,income,SUM(age), COUNT(\*) FROM C1 WHERE (capital = 0 OR occupation IN ('Other-service', 'Craft-repair', 'Tech-support', 'Farming-fishing', 'Transport-moving', 'Sales', 'Handlers-cleaners', 'Machine-op-inspct')) OR (`marital.status` = 'Never-married' OR sex <> 'Female') OR (relationship <> 'Own-child' OR race IN ('Other', 'White')) GROUP BY sex,education,workclass,`marital.status`,race,relationship,income

Resulted in 4330 records

SQL for Synthetic:  
SELECT sex,education,workclass,`marital.status`,race,relationship,income,SUM(age), COUNT(\*) FROM C1\_syn\_06 WHERE (capital = 0 OR occupation IN ('Other-service', 'Craft-repair', 'Tech-support', 'Farming-fishing', 'Transport-moving', 'Sales', 'Handlers-cleaners', 'Machine-op-inspct')) OR (`marital.status` = 'Never-married' OR sex <> 'Female') OR (relationship <> 'Own-child' OR race IN ('Other', 'White')) GROUP BY sex,education,workclass,`marital.status`,race,relationship,income

Resulted in 3809 records

Normalized Euclidean distance for (age): 49.57

Hellinger Distance: 0.188

=====

Real							
	race	relationship	marital.status	occupation	sex	AVG(age)	COUNT(*)
1062	White	Not-in-family	Widowed	Exec-managerial	Female	58.291667	48
188	Asian-Pac-Islander	Not-in-family	Married-spouse-absent	Prof-specialty	Male	36.200000	5
330	Asian-Pac-Islander	Unmarried	Divorced	Other-service	Female	42.333333	3
368	Asian-Pac-Islander	Unmarried	Separated	Other-service	Female	34.666667	3
341	Asian-Pac-Islander	Unmarried	Married-spouse-absent	Other-service	Female	39.000000	1

Synthetic							
	race	relationship	marital.status	occupation	sex	AVG(age)	COUNT(*)
1062	White	Not-in-family	Widowed	Exec-managerial	Female	58.553846	65.000000
188	Asian-Pac-Islander	Not-in-family	Married-spouse-absent	Prof-specialty	Male	24.000000	1.000000
330	Asian-Pac-Islander	Unmarried	Divorced	Other-service	Female	54.500000	2.000000
368	Asian-Pac-Islander	Unmarried	Separated	Other-service	Female	41.000000	1.000000
341	Asian-Pac-Islander	Unmarried	Married-spouse-absent	Other-service	Female	33.000000	1.000000

SQL for Real:  
SELECT race,relationship,`marital.status`,occupation,sex,AVG(age), COUNT(\*) FROM C1 WHERE (education <> 'Some-college') GROUP BY race,relationship,`marital.status`,occupation,sex

Resulted in 1486 records

SQL for Synthetic:  
SELECT race,relationship,`marital.status`,occupation,sex,AVG(age), COUNT(\*) FROM C1\_syn\_06 WHERE (education <> 'Some-college') GROUP BY race,relationship,`marital.status`,occupation,sex

Resulted in 1397 records

Normalized Euclidean distance for (age): 32.53

Hellinger Distance: 0.087

=====

Real											
	education	relationship	income	sex	workclass	native.country	race	marital.status	occupation	MIN(age)	COUNT(*)
6	Some-college	Unmarried	<=50K	Female	Private	United-States	White	Married-civ-spouse	Craft-repair	nan	nan
3	HS-grad	Unmarried	<=50K	Female	?	United-States	White	Married-civ-spouse	?	nan	nan
5	HS-grad	Unmarried	<=50K	Female	State-gov	United-States	White	Married-civ-spouse	Other-service	nan	nan
0	11th	Unmarried	<=50K	Male	Private	United-States	White	Married-civ-spouse	Craft-repair	nan	nan
4	HS-grad	Unmarried	<=50K	Female	Private	United-States	White	Married-civ-spouse	Machine-op-inspct	nan	nan

Synthetic											
	education	relationship	income	sex	workclass	native.country	race	marital.status	occupation	MIN(age)	COUNT(*)
6	Some-college	Unmarried	<=50K	Female	Private	United-States	White	Married-civ-spouse	Craft-repair	51	1
3	HS-grad	Unmarried	<=50K	Female	?	United-States	White	Married-civ-spouse	?	42	1
5	HS-grad	Unmarried	<=50K	Female	State-gov	United-States	White	Married-civ-spouse	Other-service	37	1
0	11th	Unmarried	<=50K	Male	Private	United-States	White	Married-civ-spouse	Craft-repair	27	1
4	HS-grad	Unmarried	<=50K	Female	Private	United-States	White	Married-civ-spouse	Machine-op-inspct	49	1

SQL for Real:  
SELECT education,relationship,income,sex,workclass,`native.country`,race,`marital.status`,occupation,MIN(age), COUNT(\*) FROM C1 WHERE (`hours.per.week` BETWEEN

40 AND 20) AND (fnlwgt = 32280 OR occupation LIKE 'Other-service') OR (capital = 0 OR age <> 38) AND (income = '<=50K' AND relationship LIKE 'Unmarried') AND (`marital.status` = 'Married-civ-spouse' AND `native.country` = 'United-States') GROUP BY education,relationship,income,sex,workclass,`native.country`,`race`,`marital.status`,`occupation`

Resulted in 0 records

SQL for Synthetic:

SELECT education,relationship,income,sex,workclass,`native.country`,`race`,`marital.status`,`occupation`,MIN(age), COUNT(\*) FROM C1\_syn\_06 WHERE (`hours.per.week` BETWEEN 40 AND 20) AND (fnlwgt = 32280 OR occupation LIKE 'Other-service') OR (capital = 0 OR age <> 38) AND (income = '<=50K' AND relationship LIKE 'Unmarried') AND (`marital.status` = 'Married-civ-spouse' AND `native.country` = 'United-States') GROUP BY education,relationship,income,sex,workclass,`native.country`,`race`,`marital.status`,`occupation`

Resulted in 8 records

Normalized Euclidean distance for (age): nan

Hellinger Distance: nan

=====

Real				
	sex	native.country	MIN(fnlwgt)	COUNT(*)
65	Male	Japan	22201	61
18	Female	Hungary	114263	7
46	Male	Columbia	107732	53
5	Female	Cuba	48853	50
70	Male	Peru	149366	28

Synthetic				
	sex	native.country	MIN(fnlwgt)	COUNT(*)
65	Male	Japan	177902.403884	801.000000
18	Female	Hungary	179577.131609	307.000000
46	Male	Columbia	177158.044047	929.000000
5	Female	Cuba	181386.001124	3.000000
70	Male	Peru	178625.998440	794.000000

SQL for Real:  
SELECT sex,`native.country`,`MIN(fnlwgt), COUNT(\*) FROM C1 WHERE (capital >= 0 OR workclass <> 'Private') OR (fnlwgt = 344351 OR `hours.per.week` BETWEEN 60 AND 30) OR (income = '<=50K' OR education LIKE 'Masters') OR (`marital.status` = 'Married-civ-spouse' OR occupation IN ('Other-service', 'Adm-clerical', 'Craft-repair', 'Armed-Forces', 'Tech-support', 'Priv-house-serv', 'Exec-managerial', '?', 'Prof-specialty', 'Sales', 'Protective-serv')) AND (race LIKE 'White' AND sex <> 'Female') GROUP BY sex,`native.country`

Resulted in 83 records

SQL for Synthetic:  
SELECT sex,`native.country`,`MIN(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (capital >= 0 OR workclass <> 'Private') OR (fnlwgt = 344351 OR `hours.per.week` BETWEEN 60 AND 30) OR (income = '<=50K' OR education LIKE 'Masters') OR (`marital.status` = 'Married-civ-spouse' OR occupation IN ('Other-service', 'Adm-clerical', 'Craft-repair', 'Armed-Forces', 'Tech-support', 'Priv-house-serv', 'Exec-managerial', '?', 'Prof-specialty', 'Sales', 'Protective-serv')) AND (race LIKE 'White' AND sex <> 'Female') GROUP BY sex,`native.country`

Resulted in 78 records

Normalized Euclidean distance for (fnlwgt): 8.77

Hellinger Distance: 0.399

=====

Real			
	sex	AVG(`hours.per.week`)	COUNT(*)
0	Female	36.996553	13053
1	Male	43.197277	27104

  

Synthetic			
	sex	AVG(`hours.per.week`)	COUNT(*)
0	Female	39.888529	13179.000000
1	Male	40.052696	23780.000000

SQL for Real:  
SELECT sex,AVG(`hours.per.week`), COUNT(\*) FROM C1 WHERE ((`hours.per.week` BETWEEN 60 AND 72) OR income LIKE '>50K') OR (sex = 'Male' OR `native.country` = 'United-States') AND (capital < 0 AND `marital.status` LIKE 'Never-married') AND (fnlwgt >= 34066 AND relationship LIKE 'Husband') AND (occupation LIKE 'Adm-clerical' AND education <> 'Bachelors') OR (workclass = 'Private' OR race = 'Black') GROUP BY sex

Resulted in 2 records

SQL for Synthetic:  
SELECT sex,AVG(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE ((`hours.per.week` BETWEEN 60 AND 72) OR income LIKE '>50K') OR (sex = 'Male' OR `native.country` = 'United-States') AND (capital < 0 AND `marital.status` LIKE 'Never-married') AND (fnlwgt >= 34066 AND relationship LIKE 'Husband') AND (occupation LIKE 'Adm-clerical' AND education <> 'Bachelors') OR (workclass = 'Private' OR race = 'Black') GROUP BY sex

Resulted in 2 records

Normalized Euclidean distance for (`hours.per.week`): 1.41

Hellinger Distance: 0.024

=====

Real									
	workclass	occupation	relationship	marital.status	native.country	education	race	MAX(`hours.per.week`)	COUNT(*)
4499	Private	Craft-repair	Not-in-family	Never-married	Hungary	1st-4th	White	nan	nan
13502	State-gov	Craft-repair	Husband	Married-civ-spouse	Laos	HS-grad	White	nan	nan
9192	Private	Prof-specialty	Unmarried	Divorced	Laos	Some-college	White	nan	nan
2767	Local-gov	Protective-serv	Husband	Married-civ-spouse	Hungary	Some-college	White	nan	nan
5669	Private	Exec-managerial	Unmarried	Separated	Puerto-Rico	Some-college	White	nan	nan

	Synthetic								
	workclass	occupation	relationship	marital.status	native.country	education	race	MAX('hours.per.week')	COUNT(*)
4499	Private	Craft-repair	Not-in-family	Never-married	Hungary	1st-4th	White	40.040170	1
13502	State-gov	Craft-repair	Husband	Married-civ-spouse	Laos	HS-grad	White	40.026051	1
9192	Private	Prof-specialty	Unmarried	Divorced	Laos	Some-college	White	40.002672	1
2767	Local-gov	Protective-serv	Husband	Married-civ-spouse	Hungary	Some-college	White	39.952612	1
5669	Private	Exec-managerial	Unmarried	Separated	Puerto-Rico	Some-college	White	39.992909	4

=====

	income	education	native.country	workclass	sex	marital.status	race	occupation	relationship	MAX(age)	COUNT(*)
6967	<=50K	Some-college	China	Private	Female	Never-married	White	Machine-op-inspct	Own-child	nan	nan
4270	<=50K	HS-grad	Ecuador	Private	Male	Never-married	White	Handlers-cleaners	Own-child	nan	nan
7950	<=50K	Some-college	United-States	Local-gov	Female	Married-civ-spouse	White	Adm-clerical	Wife	60.000000	9.000000
7034	<=50K	Some-college	Columbia	Self-emp-not-inc	Female	Never-married	White	Prof-specialty	Not-in-family	nan	nan
6042	<=50K	HS-grad	United-States	Self-emp-not-inc	Male	Married-spouse-absent	White	Transport-moving	Unmarried	nan	nan

	income	education	native.country	workclass	sex	marital.status	race	occupation	relationship	MAX(age)	COUNT(*)
6967	<=50K	Some-college	China	Private	Female	Never-married	White	Machine-op-inspct	Own-child	28	1
4270	<=50K	HS-grad	Ecuador	Private	Male	Never-married	White	Handlers-cleaners	Own-child	29	1
7950	<=50K	Some-college	United-States	Local-gov	Female	Married-civ-spouse	White	Adm-clerical	Wife	38	3
7034	<=50K	Some-college	Columbia	Self-emp-not-inc	Female	Never-married	White	Prof-specialty	Not-in-family	25	1
6042	<=50K	HS-grad	United-States	Self-emp-not-inc	Male	Married-spouse-absent	White	Transport-moving	Unmarried	60	1

=====

	occupation	sex	education	income	native.country	relationship	workclass	race	marital.status	MIN(capital)	COUNT(*)
5012	Handlers-cleaners	Male	Assoc-voc	<=50K	Laos	Not-in-family	Private	White	Divorced	nan	nan
10796	Sales	Male	Some-college	<=50K	Canada	Not-in-family	Private	White	Never-married	nan	nan
3060	Exec-managerial	Female	9th	<=50K	Ireland	Not-in-family	Private	White	Widowed	nan	nan
1018	Adm-clerical	Female	HS-grad	<=50K	United-States	Unmarried	State-gov	White	Married-spouse-absent	nan	nan
5340	Machine-op-inspct	Female	10th	<=50K	United-States	Unmarried	Private	White	Divorced	-1594.000000	3.000000

	occupation	sex	education	income	native.country	relationship	workclass	race	marital.status	MIN(capital)	COUNT(*)
5012	Handlers-cleaners	Male	Assoc-voc	<=50K	Laos	Not-in-family	Private	White	Divorced	-21.072608	1
10796	Sales	Male	Some-college	<=50K	Canada	Not-in-family	Private	White	Never-married	-32.573375	2
3060	Exec-managerial	Female	9th	<=50K	Ireland	Not-in-family	Private	White	Widowed	11.097125	1
1018	Adm-clerical	Female	HS-grad	<=50K	United-States	Unmarried	State-gov	White	Married-spouse-absent	13.761959	1
5340	Machine-op-inspct	Female	10th	<=50K	United-States	Unmarried	Private	White	Divorced	-57.501421	2

Normalized Euclidean distance for (capital): 58.86

Hellinger Distance: 0.266

=====

Real							
	marital.status	sex	relationship	race	occupation	SUM(age)	COUNT(*)
1500	Widowed	Female	Unmarried	Black	Sales	223	4
384	Married-civ-spouse	Female	Wife	Amer-Indian-Eskimo	Farming-fishing	29	1
399	Married-civ-spouse	Female	Wife	Asian-Pac-Islander	Transport-moving	63	1
792	Never-married	Female	Not-in-family	White	?	2858	102
705	Married-spouse-absent	Male	Other-relative	White	Farming-fishing	178	5

Synthetic							
	marital.status	sex	relationship	race	occupation	SUM(age)	COUNT(*)
1500	Widowed	Female	Unmarried	Black	Sales	70.000000	1.000000
384	Married-civ-spouse	Female	Wife	Amer-Indian-Eskimo	Farming-fishing	36.000000	1.000000
399	Married-civ-spouse	Female	Wife	Asian-Pac-Islander	Transport-moving	nan	nan
792	Never-married	Female	Not-in-family	White	?	3788.000000	113.000000
705	Married-spouse-absent	Male	Other-relative	White	Farming-fishing	106.000000	2.000000

SQL for Real:  
SELECT `marital.status`,`sex`,relationship,race,occupation,SUM(age), COUNT(\*) FROM C1 WHERE (workclass IN ('Self-emp-inc', 'Private', '?', 'State-gov', 'Self-emp-not-inc', 'Federal-gov', 'Local-gov')) OR (`native.country` = 'United-States' AND `hours.per.week` BETWEEN 55 AND 36) AND (age > 45 AND sex LIKE 'Male') AND (race <> 'White' AND income <> '<=50K') AND (occupation = 'Sales' AND relationship <> 'Own-child') AND (`marital.status` LIKE 'Married-spouse-absent' AND capital BETWEEN 0 AND 0) GROUP BY `marital.status`,`sex`,relationship,race,occupation

Resulted in 1585 records

SQL for Synthetic:  
SELECT `marital.status`,`sex`,relationship,race,occupation,SUM(age), COUNT(\*) FROM C1\_syn\_06 WHERE (workclass IN ('Self-emp-inc', 'Private', '?', 'State-gov', 'Self-emp-not-inc', 'Federal-gov', 'Local-gov')) OR (`native.country` = 'United-States' AND `hours.per.week` BETWEEN 55 AND 36) AND (age > 45 AND sex LIKE 'Male') AND (race <> 'White' AND income <> '<=50K') AND (occupation = 'Sales' AND relationship <> 'Own-child') AND (`marital.status` LIKE 'Married-spouse-absent' AND capital BETWEEN 0 AND 0) GROUP BY `marital.status`,`sex`,relationship,race,occupation

Resulted in 1503 records

Normalized Euclidean distance for (age): 33.82

Hellinger Distance: 0.082

=====

Real		
workclass	SUM(age)	COUNT(*)
5 Self-emp-not-inc	133798	2912
2 Local-gov	95620	2285
1 Federal-gov	44527	1038
0 ?	79356	2016
4 Self-emp-inc	63233	1363

Synthetic		
workclass	SUM(age)	COUNT(*)
5 Self-emp-not-inc	116489.000000	2521.000000
2 Local-gov	88785.000000	2123.000000
1 Federal-gov	40574.000000	936.000000
0 ?	68289.000000	1813.000000
4 Self-emp-inc	53760.000000	1181.000000

SQL for Real:  
SELECT workclass,SUM(age), COUNT(\*) FROM C1 WHERE (race <> 'White') OR (relationship <> 'Not-in-family' AND education <> 'HS-grad') OR (fnlwgt > 337064 OR `native.country` = 'United-States') AND (sex = 'Male' AND age >= 24) AND (`marital.status` = 'Married-civ-spouse' AND workclass <> 'Private') GROUP BY workclass

Resulted in 7 records

SQL for Synthetic:  
SELECT workclass,SUM(age), COUNT(\*) FROM C1\_syn\_06 WHERE (race <> 'White') OR (relationship <> 'Not-in-family' AND education <> 'HS-grad') OR (fnlwgt > 337064 OR `native.country` = 'United-States') AND (sex = 'Male' AND age >= 24) AND (`marital.status` = 'Married-civ-spouse' AND workclass <> 'Private') GROUP BY workclass

Resulted in 7 records

Normalized Euclidean distance for (age): 2.65

Hellinger Distance: 0.013

=====

Real										
	relationship	education	native.country	race	sex	workclass	occupation	marital.status	MAX(fnlwgt)	COUNT(*)
6127	Not-in-family	HS-grad	Puerto-Rico	White	Male	State-gov	Other-service	Never-married	nan	nan
11330	Unmarried	HS-grad	Japan	White	Female	State-gov	Adm-clerical	Divorced	nan	nan
7034	Not-in-family	Prof-school	India	Asian-Pac-Islander	Male	Private	Prof-specialty	Never-married	236481.000000	2.000000
3892	Not-in-family	Assoc-acdm	Peru	Other	Female	Local-gov	Adm-clerical	Divorced	nan	nan
4723	Not-in-family	Bachelors	Peru	Asian-Pac-Islander	Female	State-gov	Adm-clerical	Widowed	nan	nan

Synthetic										
	relationship	education	native.country	race	sex	workclass	occupation	marital.status	MAX(fnlwgt)	COUNT(*)
6127	Not-in-family	HS-grad	Puerto-Rico	White	Male	State-gov	Other-service	Never-married	169934.478193	1
11330	Unmarried	HS-grad	Japan	White	Female	State-gov	Adm-clerical	Divorced	178281.490826	1
7034	Not-in-family	Prof-school	India	Asian-Pac-Islander	Male	Private	Prof-specialty	Never-married	181019.620018	1
3892	Not-in-family	Assoc-acdm	Peru	Other	Female	Local-gov	Adm-clerical	Divorced	178630.487495	1
4723	Not-in-family	Bachelors	Peru	Asian-Pac-Islander	Female	State-gov	Adm-clerical	Widowed	179378.354720	1

SQL for Real:  
SELECT relationship,education,`native.country`,race,sex,workclass,occupation,`marital.status`,MAX(fnlwgt), COUNT(\*) FROM C1 WHERE (education <> 'Some-college') GROUP BY relationship,education,`native.country`,race,sex,workclass,occupation,`marital.status`  
Resulted in 9335 records

SQL for Synthetic:  
SELECT relationship,education,`native.country`,race,sex,workclass,occupation,`marital.status`,MAX(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (education <> 'Some-college') GROUP BY relationship,education,`native.country`,race,sex,workclass,occupation,`marital.status`  
Resulted in 12998 records

Normalized Euclidean distance for (fnlwgt): 56.56

Hellinger Distance: 0.228

=====

Real						
	marital.status	education	sex	income	MAX(fnlwgt)	COUNT(*)
166	Never-married	10th	Female	<=50K	634226	184
189	Never-married	Assoc-voc	Female	<=50K	557805	233
8	Divorced	12th	Male	<=50K	849067	30
100	Married-civ-spouse	Assoc-voc	Male	>50K	673764	362
33	Divorced	Doctorate	Female	>50K	295566	15

  

Synthetic						
	marital.status	education	sex	income	MAX(fnlwgt)	COUNT(*)
166	Never-married	10th	Female	<=50K	199960.552073	146.000000
189	Never-married	Assoc-voc	Female	<=50K	199578.642449	175.000000
8	Divorced	12th	Male	<=50K	199821.814539	13.000000
100	Married-civ-spouse	Assoc-voc	Male	>50K	196489.936888	106.000000
33	Divorced	Doctorate	Female	>50K	203890.233745	4.000000

SQL for Real:  
SELECT `marital.status`,education,sex,income,MAX(fnlwgt), COUNT(\*) FROM C1 WHERE (`native.country` IN ('El-Salvador', 'Italy', 'Taiwan', 'United-States', 'Ireland', 'India', 'Trinidad&Tobago', 'Nicaragua')) GROUP BY `marital.status`,education,sex,income  
Resulted in 320 records

SQL for Synthetic:  
SELECT `marital.status`,education,sex,income,MAX(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (`native.country` IN ('El-Salvador', 'Italy', 'Taiwan', 'United-States', 'Ireland', 'India', 'Trinidad&Tobago', 'Nicaragua')) GROUP BY `marital.status`,education,sex,income  
Resulted in 272 records

Normalized Euclidean distance for (fnlwgt): 16.22

Hellinger Distance: 0.157

=====

Real							
	marital.status	sex	native.country	occupation	workclass	MAX(age)	COUNT(*)
88	Married-spouse-absent	Male	United-States	Farming-fishing	Local-gov	43.000000	2.000000
8	Divorced	Male	?	Farming-fishing	Self-emp-not-inc	nan	nan
133	Never-married	Male	Puerto-Rico	Farming-fishing	State-gov	nan	nan
62	Married-civ-spouse	Male	Mexico	Farming-fishing	State-gov	nan	nan
154	Widowed	Female	Mexico	Farming-fishing	Local-gov	nan	nan

  

Synthetic							
	marital.status	sex	native.country	occupation	workclass	MAX(age)	COUNT(*)
88	Married-spouse-absent	Male	United-States	Farming-fishing	Local-gov	34	1
8	Divorced	Male	?	Farming-fishing	Self-emp-not-inc	49	4
133	Never-married	Male	Puerto-Rico	Farming-fishing	State-gov	51	2
62	Married-civ-spouse	Male	Mexico	Farming-fishing	State-gov	64	1
154	Widowed	Female	Mexico	Farming-fishing	Local-gov	68	1

SQL for Real:  
SELECT `marital.status`,sex,`native.country`,occupation,workclass,MAX(age), COUNT(\*) FROM C1 WHERE (occupation LIKE 'Farming-fishing') GROUP BY `marital.status`,sex,`native.country`,occupation,workclass  
Resulted in 107 records

SQL for Synthetic:  
SELECT `marital.status`,sex,`native.country`,occupation,workclass,MAX(age), COUNT(\*) FROM C1\_syn\_06 WHERE (occupation LIKE 'Farming-fishing') GROUP BY `marital.status`,sex,`native.country`,occupation,workclass  
Resulted in 167 records

Normalized Euclidean distance for (age): 7.21

Hellinger Distance: 0.182

=====

Real				
	sex	workclass	SUM(capital)	COUNT(*)
8	Male	Federal-gov	767742	661
7	Male	?	641229	725
5	Female	Self-emp-not-inc	385562	195
11	Male	Self-emp-inc	7089058	1192
3	Female	Private	2259788	1595

Synthetic					
	sex	workclass	SUM(capital)	COUNT(*)	
8	Male	Federal-gov	3807.038206	698.000000	
7	Male	?	1146.063085	698.000000	
5	Female	Self-emp-not-inc	2833.023414	204.000000	
11	Male	Self-emp-inc	12627.611293	1083.000000	
3	Female	Private	-1582.709730	1693.000000	

SQL for Real:  
SELECT sex,workclass,SUM(capital), COUNT(\*) FROM C1 WHERE (`marital.status` LIKE 'Married-civ-spouse') GROUP BY sex,workclass  
Resulted in 14 records

SQL for Synthetic:  
SELECT sex,workclass,SUM(capital), COUNT(\*) FROM C1\_syn\_06 WHERE (`marital.status` LIKE 'Married-civ-spouse') GROUP BY sex,workclass  
Resulted in 14 records

Normalized Euclidean distance for (capital): 3.74  
Hellinger Distance: 0.016

=====

Real										
	race	marital.status	income	relationship	education	sex	occupation	native.country	MIN(capital)	COUNT(*)
8933	White	Never-married	<=50K	Not-in-family	HS-grad	Female	Adm-clerical	Taiwan	nan	nan
3912	White	Divorced	<=50K	Not-in-family	Prof-school	Male	Prof-specialty	Puerto-Rico	nan	nan
4522	White	Divorced	<=50K	Unmarried	9th	Female	Sales	Jamaica	nan	nan
6766	White	Married-civ-spouse	<=50K	Wife	12th	Female	Craft-repair	United-States	0.000000	1.000000
556	Asian-Pac-Islander	Married-civ-spouse	>50K	Husband	Bachelors	Male	Machine-op-inspct	Puerto-Rico	nan	nan

Synthetic										
	race	marital.status	income	relationship	education	sex	occupation	native.country	MIN(capital)	COUNT(*)
8933	White	Never-married	<=50K	Not-in-family	HS-grad	Female	Adm-clerical	Taiwan	116.399689	1
3912	White	Divorced	<=50K	Not-in-family	Prof-school	Male	Prof-specialty	Puerto-Rico	18.614639	2
4522	White	Divorced	<=50K	Unmarried	9th	Female	Sales	Jamaica	-35.617099	1
6766	White	Married-civ-spouse	<=50K	Wife	12th	Female	Craft-repair	United-States	137.294560	1
556	Asian-Pac-Islander	Married-civ-spouse	>50K	Husband	Bachelors	Male	Machine-op-inspct	Puerto-Rico	-107.069280	1

SQL for Real:  
SELECT race,`marital.status`,`income`,relationship,education,sex,occupation,`native.country`,MIN(capital), COUNT(\*) FROM C1 WHERE (race <> 'Other') OR (capital <> 0 OR `marital.status` IN ('Separated', 'Never-married', 'Married-AF-spouse', 'Married-civ-spouse')) AND ((age BETWEEN 45 AND 34) AND `native.country` = 'United-States') GROUP BY race,`marital.status`,`income`,relationship,education,sex,occupation,`native.country`  
Resulted in 9029 records

SQL for Synthetic:  
SELECT race,`marital.status`,`income`,relationship,education,sex,occupation,`native.country`,MIN(capital), COUNT(\*) FROM C1\_syn\_06 WHERE (race <> 'Other') OR (capital <> 0 OR `marital.status` IN ('Separated', 'Never-married', 'Married-AF-spouse', 'Married-civ-spouse')) AND ((age BETWEEN 45 AND 34) AND `native.country` = 'United-States') GROUP BY race,`marital.status`,`income`,relationship,education,sex,occupation,`native.country`  
Resulted in 12738 records

Normalized Euclidean distance for (capital): 57.09  
Hellinger Distance: 0.264

=====

Real					
	workclass	native.country	sex	MIN(fnlwgt)	COUNT(*)
14	Federal-gov	Poland	Male	190160	1
60	Self-emp-not-inc	Iran	Male	127295	1
43	Private	Philippines	Male	137192	1
29	Private	England	Female	77271	2
3	?	Cuba	Female	178013	1

Synthetic					
	workclass	native.country	sex	MIN(fnlwgt)	COUNT(*)
14	Federal-gov	Poland	Male	nan	nan
60	Self-emp-not-inc	Iran	Male	nan	nan
43	Private	Philippines	Male	nan	nan
29	Private	England	Female	nan	nan
3	?	Cuba	Female	nan	nan

SQL for Real:  
SELECT workclass,`native.country`,`sex`,MIN(fnlwgt), COUNT(\*) FROM C1 WHERE (sex IN ('Male', 'Female')) AND (race IN ('White', 'Other', 'Amer-Indian-Eskimo') OR education <> 'Some-college') AND (age > 26 AND `hours.per.week` = 20) GROUP BY workclass,`native.country`,`sex`  
Resulted in 75 records

SQL for Synthetic:  
SELECT workclass,`native.country`,`sex`,MIN(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (sex IN ('Male', 'Female')) AND (race IN ('White', 'Other', 'Amer-Indian-Eskimo') OR education <> 'Some-college') AND (age > 26 AND `hours.per.week` = 20) GROUP BY workclass,`native.country`,`sex`  
Resulted in 0 records

Normalized Euclidean distance for (fnlwgt): nan  
Hellinger Distance: nan

=====

Real								
	education	income	native.country	occupation	relationship	race	sex	SUM(capital) COUNT(*)
734	11th	<=50K	United-States	?	Own-child	White	Male	-1602.000000 34.000000
2776	Assoc-voc	<=50K	Ecuador	Tech-support	Husband	White	Male	nan nan
1078	12th	<=50K	United-States	?	Own-child	Black	Male	0.000000 5.000000
8788	Some-college	<=50K	United-States	Craft-repair	Husband	White	Male	55998.000000 398.000000
7482	Prof-school	<=50K	Peru	?	Husband	White	Male	nan nan

Synthetic								
	education	income	native.country	occupation	relationship	race	sex	SUM(capital) COUNT(*)
734	11th	<=50K	United-States	?	Own-child	White	Male	275.081699 11
2776	Assoc-voc	<=50K	Ecuador	Tech-support	Husband	White	Male	34.433163 2
1078	12th	<=50K	United-States	?	Own-child	Black	Male	83.159748 1
8788	Some-college	<=50K	United-States	Craft-repair	Husband	White	Male	6883.559039 319
7482	Prof-school	<=50K	Peru	?	Husband	White	Male	153.534672 1

SQL for Real:  
SELECT education,income,`native.country`,occupation,relationship,race,sex,SUM(capital), COUNT(\*) FROM C1 WHERE (relationship = 'Husband') OR (`native.country` LIKE 'United-States' OR `hours.per.week` BETWEEN 40 AND 45) OR (capital > 0 OR race IN ('Black', 'Other', 'Asian-Pac-Islander', 'Amer-Indian-Eskimo')) GROUP BY education,income,`native.country`,occupation,relationship,race,sex  
Resulted in 6482 records

SQL for Synthetic:  
SELECT education,income,`native.country`,occupation,relationship,race,sex,SUM(capital), COUNT(\*) FROM C1\_syn\_06 WHERE (relationship = 'Husband') OR (`native.country` LIKE 'United-States' OR `hours.per.week` BETWEEN 40 AND 45) OR (capital > 0 OR race IN ('Black', 'Other', 'Asian-Pac-Islander', 'Amer-Indian-Eskimo')) GROUP BY education,income,`native.country`,occupation,relationship,race,sex  
Resulted in 9249 records

Normalized Euclidean distance for (capital): 50.21

Hellinger Distance: 0.263

=====

Real								
	native.country	marital.status	race	occupation	income	workclass	relationship	education sex AVG(capital) COUNT(*)
Synthetic								
	native.country	marital.status	race	occupation	income	workclass	relationship	education sex AVG(capital) COUNT(*)

SQL for Real:  
SELECT `native.country`,`marital.status`,race,occupation,income,workclass,relationship,education,sex,AVG(capital), COUNT(\*) FROM C1 WHERE (`marital.status` LIKE 'Married-civ-spouse' OR sex <> 'Male') AND (race LIKE 'White' AND fnlwgt BETWEEN 136331 AND 48093) AND (`hours.per.week` <= 40 AND capital BETWEEN 0 AND 0) GROUP BY `native.country`,`marital.status`,race,occupation,income,workclass,relationship,education,sex  
Resulted in 0 records

SQL for Synthetic:  
SELECT `native.country`,`marital.status`,race,occupation,income,workclass,relationship,education,sex,AVG(capital), COUNT(\*) FROM C1\_syn\_06 WHERE (`marital.status` LIKE 'Married-civ-spouse' OR sex <> 'Male') AND (race LIKE 'White' AND fnlwgt BETWEEN 136331 AND 48093) AND (`hours.per.week` <= 40 AND capital BETWEEN 0 AND 0) GROUP BY `native.country`,`marital.status`,race,occupation,income,workclass,relationship,education,sex  
Resulted in 0 records

Normalized Euclidean distance for (capital): nan

Hellinger Distance: nan

=====

Real					
	relationship	MIN(`hours.per.week`)	COUNT(*)		
0	Other-relative	1	689		

Synthetic					
	relationship	MIN(`hours.per.week`)	COUNT(*)		
0	Other-relative	38.918517	682.000000		

SQL for Real:  
SELECT relationship,MIN(`hours.per.week`), COUNT(\*) FROM C1 WHERE (sex LIKE 'Female' AND relationship = 'Other-relative') GROUP BY relationship  
Resulted in 1 records

SQL for Synthetic:  
SELECT relationship,MIN(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE (sex LIKE 'Female' AND relationship = 'Other-relative') GROUP BY relationship  
Resulted in 1 records

Normalized Euclidean distance for (`hours.per.week`): 0.0

Hellinger Distance: 0.0

=====

Real						
	sex	race	marital.status	workclass	native.country	SUM(fnlwgt) COUNT(*)
182	Female	White	Divorced	Self-emp-not-inc	China	nan nan
995	Male	White	Never-married	Local-gov	Guatemala	1024369.000000 3.000000
473	Female	White	Never-married	State-gov	Ireland	nan nan
584	Female	White	Widowed	Self-emp-inc	Puerto-Rico	nan nan
950	Male	White	Married-spouse-absent	Private	Scotland	nan nan



Synthetic							
sex	race	marital.status	workclass	native.country	SUM(fnlwgt)	COUNT(*)	
182	Female	White	Divorced	Self-emp-not-inc	China	178622.729328	1
995	Male	White	Never-married	Local-gov	Guatemala	187784.919759	1
473	Female	White	Never-married	State-gov	Ireland	356246.130158	2
584	Female	White	Widowed	Self-emp-inc	Puerto-Rico	1368991.688997	8
950	Male	White	Married-spouse-absent	Private	Scotland	553294.103922	3

SQL for Real:  
SELECT sex,race,`marital.status`,workclass,`native.country`,SUM(fnlwgt), COUNT(\*) FROM C1 WHERE (race LIKE 'White' OR `hours.per.week` BETWEEN 40 AND 34) OR (income LIKE '>50K' OR `native.country` IN ('Trinidad&Tobago', 'Vietnam', 'Dominican-Republic', 'Cuba', 'Hong', 'Ireland', 'El-Salvador', 'Outlying-US(Guam-USVI-etc)', 'Germany', 'Guatemala', 'Mexico')) OR ((fnlwgt BETWEEN 146325 AND 191202) OR relationship LIKE 'Own-child') AND (education = 'Bachelors' AND workclass IN ('Private', '?', 'Federal-gov', 'Self-emp-not-inc')) AND (age <= 28 AND occupation IN ('Other-service', 'Exec-managerial', 'Handlers-cleaners')) GROUP BY sex,race,`marital.status`,workclass,`native.country`  
Resulted in 1067 records

SQL for Synthetic:  
SELECT sex,race,`marital.status`,workclass,`native.country`,SUM(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (race LIKE 'White' OR `hours.per.week` BETWEEN 40 AND 34) OR (income LIKE '>50K' OR `native.country` IN ('Trinidad&Tobago', 'Vietnam', 'Dominican-Republic', 'Cuba', 'Hong', 'Ireland', 'El-Salvador', 'Outlying-US(Guam-USVI-etc)', 'Germany', 'Guatemala', 'Mexico')) OR ((fnlwgt BETWEEN 146325 AND 191202) OR relationship LIKE 'Own-child') AND (education = 'Bachelors' AND workclass IN ('Private', '?', 'Federal-gov', 'Self-emp-not-inc')) AND (age <= 28 AND occupation IN ('Other-service', 'Exec-managerial', 'Handlers-cleaners')) GROUP BY sex,race,`marital.status`,workclass,`native.country`  
Resulted in 1157 records

Normalized Euclidean distance for (fnlwgt): 21.66

Hellinger Distance: 0.383

=====

Real							
	education	marital.status	workclass	occupation	sex	SUM(`hours.per.week`)	COUNT(*)
2963	Some-college	Married-civ-spouse	Self-emp-inc	Other-service	Male	nan	nan
515	12th	Widowed	Private	Machine-op-inspct	Female	40.000000	1.000000
1121	Assoc-acdm	Never-married	Local-gov	Other-service	Male	nan	nan
1539	Bachelors	Married-civ-spouse	Federal-gov	Other-service	Male	nan	nan
1213	Assoc-voc	Divorced	Local-gov	Craft-repair	Male	40.000000	1.000000
Synthetic							
	education	marital.status	workclass	occupation	sex	SUM(`hours.per.week`)	COUNT(*)
2963	Some-college	Married-civ-spouse	Self-emp-inc	Other-service	Male	160.860361	4
515	12th	Widowed	Private	Machine-op-inspct	Female	39.994496	1
1121	Assoc-acdm	Never-married	Local-gov	Other-service	Male	40.075299	1
1539	Bachelors	Married-civ-spouse	Federal-gov	Other-service	Male	80.036479	2
1213	Assoc-voc	Divorced	Local-gov	Craft-repair	Male	40.004403	1

SQL for Real:  
SELECT education,`marital.status`,workclass,occupation,sex,SUM(`hours.per.week`), COUNT(\*) FROM C1 WHERE (age BETWEEN 46 AND 47) AND (income IN ('>50K', '<=50K') AND capital BETWEEN 0 AND 0) AND (race <> 'White' AND fnlwgt >= 98515) OR (`native.country` <> 'United-States' OR sex = 'Male') GROUP BY education,`marital.status`,workclass,occupation,sex  
Resulted in 2672 records

SQL for Synthetic:  
SELECT education,`marital.status`,workclass,occupation,sex,SUM(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE (age BETWEEN 46 AND 47) AND (income IN ('>50K', '<=50K') AND capital BETWEEN 0 AND 0) AND (race <> 'White' AND fnlwgt >= 98515) OR (`native.country` <> 'United-States' OR sex = 'Male') GROUP BY education,`marital.status`,workclass,occupation,sex  
Resulted in 3260 records

Normalized Euclidean distance for (`hours.per.week`): 43.95

Hellinger Distance: 0.189

=====

		Real			
workclass	education	native.country	MAX(age)	COUNT(*)	
576	Private	5th-6th	Ireland	nan	nan
948	Self-emp-inc	Masters	Japan	43.000000	2.000000
637	Private	Assoc-acdm	Ecuador	nan	nan
278	Local-gov	10th	Poland	nan	nan
772	Private	HS-grad	Philippines	73.000000	44.000000

  

		Synthetic			
workclass	education	native.country	MAX(age)	COUNT(*)	
576	Private	5th-6th	Ireland	26	1
948	Self-emp-inc	Masters	Japan	49	1
637	Private	Assoc-acdm	Ecuador	29	5
278	Local-gov	10th	Poland	17	5
772	Private	HS-grad	Philippines	47	19

SQL for Real:  
SELECT workclass,education,`native.country`,MAX(age), COUNT(\*) FROM C1 WHERE (`native.country` LIKE 'United-States') OR (income <> '<=50K' OR race LIKE 'White') OR (fnlwgt = 35626 OR sex IN ('Male', 'Female')) OR (`hours.per.week` <= 6 OR age = 28) AND (workclass <> 'Self-emp-not-inc' AND capital BETWEEN 0 AND 0) AND (occupation <> '?' AND `marital.status` IN ('Separated', 'Never-married', 'Married-spouse-absent', 'Married-AF-spouse')) GROUP BY workclass,education,`native.country`  
Resulted in 1170 records

SQL for Synthetic:  
SELECT workclass,education,`native.country`,MAX(age), COUNT(\*) FROM C1\_syn\_06 WHERE (`native.country` LIKE 'United-States') OR (income <> '<=50K' OR race LIKE 'White') OR (fnlwgt = 35626 OR sex IN ('Male', 'Female')) OR (`hours.per.week` <= 6 OR age = 28) AND (workclass <> 'Self-emp-not-inc' AND capital BETWEEN 0 AND 0) AND (occupation <> '?' AND `marital.status` IN ('Separated', 'Never-married', 'Married-spouse-absent', 'Married-AF-spouse')) GROUP BY

workclass,education,`native.country`

Resulted in 1259 records

Normalized Euclidean distance for (age): 24.66

Hellinger Distance: 0.368

=====

Real										
	marital.status	education	workclass	relationship	income	sex	native.country	occupation	SUM(capital)	COUNT(*)
2459	Married-civ-spouse	Assoc-acdm	Self-emp-not-inc	Husband	>50K	Male	United-States	Craft-repair	-1887.000000	3.000000
6666	Never-married	HS-grad	Private	Not-in-family	<=50K	Male	Puerto-Rico	Craft-repair	nan	nan
1556	Divorced	Some-college	Local-gov	Not-in-family	<=50K	Female	Scotland	Adm-clerical	nan	nan
1479	Divorced	Preschool	Private	Not-in-family	<=50K	Male	United-States	Farming-fishing	nan	nan
5031	Never-married	11th	Private	Own-child	<=50K	Male	Puerto-Rico	Farming-fishing	nan	nan

Synthetic										
	marital.status	education	workclass	relationship	income	sex	native.country	occupation	SUM(capital)	COUNT(*)
2459	Married-civ-spouse	Assoc-acdm	Self-emp-not-inc	Husband	>50K	Male	United-States	Craft-repair	-82.967266	3
6666	Never-married	HS-grad	Private	Not-in-family	<=50K	Male	Puerto-Rico	Craft-repair	-709.013774	11
1556	Divorced	Some-college	Local-gov	Not-in-family	<=50K	Female	Scotland	Adm-clerical	-136.674603	1
1479	Divorced	Preschool	Private	Not-in-family	<=50K	Male	United-States	Farming-fishing	128.790123	1
5031	Never-married	11th	Private	Own-child	<=50K	Male	Puerto-Rico	Farming-fishing	-264.152052	3

SQL for Real:  
SELECT `marital.status`,`education`,`workclass`,`relationship`,`income`,`sex`,`native.country`,`occupation`,`SUM(capital)`,`COUNT(\*)` FROM C1 WHERE (`native.country` IN ('El-Salvador','Iran','Peru','United-States','Taiwan','Thailand','Jamaica','Yugoslavia','China','France','?','Guatemala','Honduras','Scotland') OR relationship LIKE 'Own-child') OR (workclass LIKE 'Private' OR `hours.per.week` > 52) AND (education LIKE 'HS-grad' AND capital < 0) GROUP BY `marital.status`,`education`,`workclass`,`relationship`,`income`,`sex`,`native.country`,`occupation`

Resulted in 8036 records

SQL for Synthetic:  
SELECT `marital.status`,`education`,`workclass`,`relationship`,`income`,`sex`,`native.country`,`occupation`,`SUM(capital)`,`COUNT(\*)` FROM C1\_syn\_06 WHERE (`native.country` IN ('El-Salvador','Iran','Peru','United-States','Taiwan','Thailand','Jamaica','Yugoslavia','China','France','?','Guatemala','Honduras','Scotland') OR relationship LIKE 'Own-child') OR (workclass LIKE 'Private' OR `hours.per.week` > 52) AND (education LIKE 'HS-grad' AND capital < 0) GROUP BY `marital.status`,`education`,`workclass`,`relationship`,`income`,`sex`,`native.country`,`occupation`

Resulted in 9408 records

Normalized Euclidean distance for (capital): 59.97

Hellinger Distance: 0.207

=====

Real						
	occupation	sex	native.country	income	MAX(age)	COUNT(*)
690	Tech-support	Female	Puerto-Rico	<=50K	nan	nan
598	Sales	Female	Canada	<=50K	37.000000	2.000000
756	Transport-moving	Male	Japan	<=50K	nan	nan
461	Priv-house-serv	Female	Hungary	<=50K	26.000000	1.000000
524	Prof-specialty	Male	Cambodia	<=50K	36.000000	1.000000

Synthetic						
	occupation	sex	native.country	income	MAX(age)	COUNT(*)
690	Tech-support	Female	Puerto-Rico	<=50K	43	32
598	Sales	Female	Canada	<=50K	23	4
756	Transport-moving	Male	Japan	<=50K	42	22
461	Priv-house-serv	Female	Hungary	<=50K	28	1
524	Prof-specialty	Male	Cambodia	<=50K	37	1

SQL for Real:  
SELECT occupation,sex,`native.country`,`income`,`MAX(age)`,`COUNT(\*)` FROM C1 WHERE (age <= 43 AND workclass LIKE 'Private') AND (income IN ('>50K','<=50K') AND sex IN ('Male','Female')) GROUP BY occupation,sex,`native.country`,`income`

Resulted in 747 records

SQL for Synthetic:  
SELECT occupation,sex,`native.country`,`income`,`MAX(age)`,`COUNT(\*)` FROM C1\_syn\_06 WHERE (age <= 43 AND workclass LIKE 'Private') AND (income IN ('>50K','<=50K') AND sex IN ('Male','Female')) GROUP BY occupation,sex,`native.country`,`income`

Resulted in 773 records

Normalized Euclidean distance for (age): 20.49

Hellinger Distance: 0.3

=====

Real				
	income	education	AVG(fnlwgt)	COUNT(*)
14	<=50K	Prof-school	197769.756757	148
18	>50K	12th	210650.977273	44
9	<=50K	Bachelors	190191.201089	2755
27	>50K	HS-grad	183933.766682	2173
16	>50K	10th	197666.855422	83

Synthetic				
	income	education	AVG(fnlwgt)	COUNT(*)
14	<=50K	Prof-school	173767.954946	460.000000
18	>50K	12th	177037.539026	17.000000
9	<=50K	Bachelors	181270.549337	4312.000000
27	>50K	HS-grad	178210.560484	858.000000
16	>50K	10th	173937.873068	29.000000

SQL for Real:  
SELECT income,education,AVG(fnlwgt), COUNT(\*) FROM C1 WHERE (relationship IN ('Own-child', 'Other-relative', 'Not-in-family', 'Husband', 'Unmarried') AND sex = 'Male') GROUP BY income,education

Resulted in 32 records

SQL for Synthetic:  
SELECT income,education,AVG(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (relationship IN ('Own-child', 'Other-relative', 'Not-in-family', 'Husband', 'Unmarried') AND sex = 'Male') GROUP BY income,education

Resulted in 31 records

Normalized Euclidean distance for (fnlwgt): 5.57

Hellinger Distance: 0.171

=====

Real						
	marital.status	relationship	occupation	education	MAX(capital)	COUNT(*)
1667	Widowed	Own-child	Craft-repair	HS-grad	0.000000	2.000000
441	Married-civ-spouse	Husband	Other-service	7th-8th	0.000000	1.000000
18	Divorced	Not-in-family	Craft-repair	11th	-1876.000000	1.000000
701	Married-civ-spouse	Wife	Tech-support	7th-8th	nan	nan
299	Divorced	Unmarried	Priv-house-serv	9th	nan	nan

Synthetic						
	marital.status	relationship	occupation	education	MAX(capital)	COUNT(*)
1667	Widowed	Own-child	Craft-repair	HS-grad	142.123879	1
441	Married-civ-spouse	Husband	Other-service	7th-8th	-10.611902	8
18	Divorced	Not-in-family	Craft-repair	11th	-22.105065	7
701	Married-civ-spouse	Wife	Tech-support	7th-8th	-46.897516	1
299	Divorced	Unmarried	Priv-house-serv	9th	141.085768	2

SQL for Real:  
SELECT `marital.status`,relationship,occupation,education,MAX(capital), COUNT(\*) FROM C1 WHERE (`marital.status` = 'Widowed') OR (workclass LIKE 'Private' AND race LIKE 'White') AND (capital < 0 AND income = '<=50K') OR (`hours.per.week` < 12 OR occupation IN ('Priv-house-serv', 'Prof-specialty', 'Protective-serv', 'Handlers-cleaners')) GROUP BY `marital.status`,relationship,occupation,education

Resulted in 1191 records

SQL for Synthetic:  
SELECT `marital.status`,relationship,occupation,education,MAX(capital), COUNT(\*) FROM C1\_syn\_06 WHERE (`marital.status` = 'Widowed') OR (workclass LIKE 'Private' AND race LIKE 'White') AND (capital < 0 AND income = '<=50K') OR (`hours.per.week` < 12 OR occupation IN ('Priv-house-serv', 'Prof-specialty', 'Protective-serv', 'Handlers-cleaners')) GROUP BY `marital.status`,relationship,occupation,education

Resulted in 1796 records

Normalized Euclidean distance for (capital): 29.97

Hellinger Distance: 0.331

=====

Real			
	workclass	MAX(age)	COUNT(*)
1	Federal-gov	90	1432
5	Self-emp-not-inc	90	3862
4	Self-emp-inc	85	1695
0	?	90	2830
3	Private	90	33906

Synthetic			
	workclass	MAX(age)	COUNT(*)
1	Federal-gov	79.000000	1426.000000
5	Self-emp-not-inc	90.000000	3818.000000
4	Self-emp-inc	84.000000	1645.000000
0	?	90.000000	2844.000000
3	Private	90.000000	34022.000000

SQL for Real:  
SELECT workclass,MAX(age), COUNT(\*) FROM C1 WHERE (sex IN ('Male', 'Female') OR fnlwgt BETWEEN 103435 AND 123031) OR (workclass <> 'Private' OR `hours.per.week` <= 17) AND (`native.country` IN ('Peru', 'United-States', 'Hong', 'Trinidad&Tobago', 'Italy', 'Nicaragua', 'Cambodia', 'Canada', 'Dominican-Republic', 'Vietnam', 'Portugal') AND `marital.status` = 'Never-married') OR (occupation <> 'Other-service' OR age <= 24) OR (capital < 3137 OR race <> 'White') AND (education = '10th' AND income <> '<=50K') GROUP BY workclass

Resulted in 7 records

SQL for Synthetic:  
SELECT workclass,MAX(age), COUNT(\*) FROM C1\_syn\_06 WHERE (sex IN ('Male', 'Female') OR fnlwgt BETWEEN 103435 AND 123031) OR (workclass <> 'Private' OR `hours.per.week` <= 17) AND (`native.country` IN ('Peru', 'United-States', 'Hong', 'Trinidad&Tobago', 'Italy', 'Nicaragua', 'Cambodia', 'Canada', 'Dominican-Republic', 'Vietnam', 'Portugal') AND `marital.status` = 'Never-married') OR (occupation <> 'Other-service' OR age <= 24) OR (capital < 3137 OR race <> 'White') AND (education = '10th' AND income <> '<=50K') GROUP BY workclass

Resulted in 7 records

Normalized Euclidean distance for (age): 2.65

Hellinger Distance: 0.003

=====

Real											
	native.country	education	race	workclass	relationship	occupation	marital.status	income	sex	AVG(capital)	COUNT(*)
8769	Puerto-Rico	Masters	Black	State-gov	Husband	Prof-specialty	Married-civ-spouse	<=50K	Male	nan	nan
2539	Holand-Netherlands	HS-grad	White	Private	Own-child	Transport-moving	Never-married	<=50K	Male	nan	nan
8123	Puerto-Rico	HS-grad	White	?	Unmarried	?	Separated	<=50K	Male	nan	nan
3107	Hungary	Some-college	Black	Private	Own-child	Other-service	Never-married	<=50K	Female	nan	nan
6255	Puerto-Rico	10th	White	Self-emp-not-inc	Husband	Other-service	Married-civ-spouse	<=50K	Male	nan	nan

Synthetic											
	native.country	education	race	workclass	relationship	occupation	marital.status	income	sex	AVG(capital)	COUNT(*)
8769	Puerto-Rico	Masters	Black	State-gov	Husband	Prof-specialty	Married-civ-spouse	<=50K	Male	-64.801767	1
2539	Holand-Netherlands	HS-grad	White	Private	Own-child	Transport-moving	Never-married	<=50K	Male	-100.929840	1
8123	Puerto-Rico	HS-grad	White	?	Unmarried	?	Separated	<=50K	Male	-81.202327	1
3107	Hungary	Some-college	Black	Private	Own-child	Other-service	Never-married	<=50K	Female	159.982969	1
6255	Puerto-Rico	10th	White	Self-emp-not-inc	Husband	Other-service	Married-civ-spouse	<=50K	Male	77.691078	1

SQL for Real:  
SELECT `native.country`,education,race,workclass,relationship,occupation,`marital.status`,income,sex,AVG(capital), COUNT(\*) FROM C1 WHERE (race IN ('Amer-Indian-Eskimo', 'Black', 'White') AND capital BETWEEN 0 AND 4386) AND (income IN ('>50K', '<=50K') AND `native.country` <> 'United-States') OR (occupation <> 'Sales' OR `hours.per.week` <= 40) OR (relationship LIKE 'Unmarried' OR sex <> 'Male') GROUP BY `native.country`,education,race,workclass,relationship,occupation,`marital.status`,income,sex  
Resulted in 12533 records

SQL for Synthetic:  
SELECT `native.country`,education,race,workclass,relationship,occupation,`marital.status`,income,sex,AVG(capital), COUNT(\*) FROM C1\_syn\_06 WHERE (race IN ('Amer-Indian-Eskimo', 'Black', 'White') AND capital BETWEEN 0 AND 4386) AND (income IN ('>50K', '<=50K') AND `native.country` <> 'United-States') OR (occupation <> 'Sales' OR `hours.per.week` <= 40) OR (relationship LIKE 'Unmarried' OR sex <> 'Male') GROUP BY `native.country`,education,race,workclass,relationship,occupation,`marital.status`,income,sex  
Resulted in 16816 records

Normalized Euclidean distance for (capital): 63.96

Hellinger Distance: 0.256

=====

Real											
	marital.status	workclass	sex	race	relationship	native.country	occupation	income	education	MAX(capital)	COUNT(*)
4110	Married-civ-spouse	Local-gov	Male	White	Husband	Puerto-Rico	Prof-specialty	<=50K	Bachelors	nan	nan
13993	Separated	Local-gov	Female	Black	Unmarried	Puerto-Rico	Other-service	<=50K	Some-college	nan	nan
13503	Never-married	State-gov	Female	Asian-Pac-Islander	Not-in-family	United-States	Prof-specialty	<=50K	Bachelors	0.000000	1.000000
5410	Married-civ-spouse	Private	Male	Black	Husband	United-States	Other-service	<=50K	Some-college	0.000000	4.000000
1446	Divorced	Private	Female	White	Unmarried	?	Priv-house-serv	<=50K	HS-grad	nan	nan

Synthetic											
	marital.status	workclass	sex	race	relationship	native.country	occupation	income	education	MAX(capital)	COUNT(*)
4110	Married-civ-spouse	Local-gov	Male	White	Husband	Puerto-Rico	Prof-specialty	<=50K	Bachelors	67.890254	8
13993	Separated	Local-gov	Female	Black	Unmarried	Puerto-Rico	Other-service	<=50K	Some-college	42.156971	1
13503	Never-married	State-gov	Female	Asian-Pac-Islander	Not-in-family	United-States	Prof-specialty	<=50K	Bachelors	-33.525904	2
5410	Married-civ-spouse	Private	Male	Black	Husband	United-States	Other-service	<=50K	Some-college	122.215307	2
1446	Divorced	Private	Female	White	Unmarried	?	Priv-house-serv	<=50K	HS-grad	-178.581472	1

SQL for Real:  
SELECT `marital.status`,workclass,sex,race,relationship,`native.country`,occupation,income,education,MAX(capital), COUNT(\*) FROM C1 WHERE (fnlwgt > 182401) AND (education <> 'HS-grad' AND race <> 'Asian-Pac-Islander') OR (sex <> 'Male' OR occupation IN ('Adm-clerical', 'Sales', 'Craft-repair', 'Prof-specialty', 'Protective-serv', 'Tech-support', 'Exec-managerial', 'Other-service', '?', 'Armed-Forces', 'Transport-moving', 'Priv-house-serv')) GROUP BY `marital.status`,workclass,sex,race,relationship,`native.country`,occupation,income,education  
Resulted in 11954 records

SQL for Synthetic:  
SELECT `marital.status`,workclass,sex,race,relationship,`native.country`,occupation,income,education,MAX(capital), COUNT(\*) FROM C1\_syn\_06 WHERE (fnlwgt > 182401) AND (education <> 'HS-grad' AND race <> 'Asian-Pac-Islander') OR (sex <> 'Male' OR occupation IN ('Adm-clerical', 'Sales', 'Craft-repair', 'Prof-specialty', 'Protective-serv', 'Tech-support', 'Exec-managerial', 'Other-service', '?', 'Armed-Forces', 'Transport-moving', 'Priv-house-serv')) GROUP BY `marital.status`,workclass,sex,race,relationship,`native.country`,occupation,income,education  
Resulted in 15860 records

Normalized Euclidean distance for (capital): 62.59

Hellinger Distance: 0.256

=====

Real											
	sex	occupation	marital.status	workclass	income	relationship	race	native.country	SUM(age)	COUNT(*)	
138	Female	Adm-clerical	Separated	Local-gov	<=50K	Not-in-family	Black	United-States	48	1	
679	Male	?	Married-spouse-absent	?	<=50K	Not-in-family	Black	United-States	71	1	
934	Male	Exec-managerial	Divorced	State-gov	<=50K	Not-in-family	White	United-States	53	1	
1416	Male	Prof-specialty	Separated	Private	<=50K	Not-in-family	White	United-States	33	1	
1020	Male	Exec-managerial	Widowed	Private	<=50K	Not-in-family	White	United-States	120	2	

Synthetic									
	sex	occupation	marital.status	workclass	income	relationship	race	native.country	SUM(age) COUNT(*)
138	Female	Adm-clerical	Separated	Local-gov	<=50K	Not-in-family	Black	United-States	nan nan
679	Male	?	Married-spouse-absent	?	<=50K	Not-in-family	Black	United-States	nan nan
934	Male	Exec-managerial	Divorced	State-gov	<=50K	Not-in-family	White	United-States	nan nan
1416	Male	Prof-specialty	Separated	Private	<=50K	Not-in-family	White	United-States	nan nan
1020	Male	Exec-managerial	Widowed	Private	<=50K	Not-in-family	White	United-States	nan nan

SQL for Real:  
SELECT sex,occupation,`marital.status`,workclass,income,relationship,race,`native.country`,SUM(age), COUNT(\*) FROM C1 WHERE (fnlwgt BETWEEN 244147 AND 308686) OR (occupation IN ('Farming-fishing', 'Other-service', 'Armed-Forces', 'Transport-moving', 'Exec-managerial', 'Craft-repair', 'Priv-house-serv', 'Prof-specialty', 'Sales', 'Tech-support', 'Protective-serv', '?', 'Adm-clerical', 'Machine-op-inspct', 'Handlers-cleaners') AND capital = 0) AND (`marital.status` = 'Never-married' AND `native.country` = 'United-States') AND (workclass <> 'Private' AND income <> '<=50K') GROUP BY sex,occupation,`marital.status`,workclass,income,relationship,race,`native.country`

Resulted in 1673 records

SQL for Synthetic:  
SELECT sex,occupation,`marital.status`,workclass,income,relationship,race,`native.country`,SUM(age), COUNT(\*) FROM C1\_syn\_06 WHERE (fnlwgt BETWEEN 244147 AND 308686) OR (occupation IN ('Farming-fishing', 'Other-service', 'Armed-Forces', 'Transport-moving', 'Exec-managerial', 'Craft-repair', 'Priv-house-serv', 'Prof-specialty', 'Sales', 'Tech-support', 'Protective-serv', '?', 'Adm-clerical', 'Machine-op-inspct', 'Handlers-cleaners') AND capital = 0) AND (`marital.status` = 'Never-married' AND `native.country` = 'United-States') AND (workclass <> 'Private' AND income <> '<=50K') GROUP BY sex,occupation,`marital.status`,workclass,income,relationship,race,`native.country`

Resulted in 0 records

Normalized Euclidean distance for (age): nan

Hellinger Distance: nan

=====

Real								
	education	native.country	income	marital.status	race	relationship	AVG(`hours.per.week`)	COUNT(*)
2394	Some-college	?	<=50K	Divorced	White	Not-in-family	nan	nan
2452	Some-college	Columbia	<=50K	Separated	Amer-Indian-Eskimo	Unmarried	nan	nan
639	9th	El-Salvador	<=50K	Divorced	White	Unmarried	nan	nan
2426	Some-college	China	<=50K	Married-civ-spouse	White	Wife	nan	nan
87	10th	Puerto-Rico	<=50K	Separated	White	Own-child	nan	nan

Synthetic								
	education	native.country	income	marital.status	race	relationship	AVG(`hours.per.week`)	COUNT(*)
2394	Some-college	?	<=50K	Divorced	White	Not-in-family	40.076548	17
2452	Some-college	Columbia	<=50K	Separated	Amer-Indian-Eskimo	Unmarried	40.021791	1
639	9th	El-Salvador	<=50K	Divorced	White	Unmarried	39.999984	2
2426	Some-college	China	<=50K	Married-civ-spouse	White	Wife	40.063405	1
87	10th	Puerto-Rico	<=50K	Separated	White	Own-child	40.033509	1

SQL for Real:  
SELECT education,`native.country`,income,`marital.status`,race,relationship,AVG(`hours.per.week`), COUNT(\*) FROM C1 WHERE (age BETWEEN 29 AND 53) AND (fnlwgt > 187649 OR income LIKE '<=50K') GROUP BY education,`native.country`,income,`marital.status`,race,relationship

Resulted in 2280 records

SQL for Synthetic:  
SELECT education,`native.country`,income,`marital.status`,race,relationship,AVG(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE (age BETWEEN 29 AND 53) AND (fnlwgt > 187649 OR income LIKE '<=50K') GROUP BY education,`native.country`,income,`marital.status`,race,relationship

Resulted in 2814 records

Normalized Euclidean distance for (`hours.per.week`): 28.71

Hellinger Distance: 0.41

=====

Real					
	education	occupation	native.country	AVG(fnlwgt)	COUNT(*)
662	9th	Adm-clerical	Puerto-Rico	nan	nan
600	7th-8th	Machine-op-inspct	Puerto-Rico	189336.500000	2.000000
901	Assoc-acdm	Prof-specialty	Thailand	nan	nan
536	7th-8th	?	Columbia	nan	nan
1161	Bachelors	Adm-clerical	Jamaica	nan	nan

Synthetic					
	education	occupation	native.country	AVG(fnlwgt)	COUNT(*)
662	9th	Adm-clerical	Puerto-Rico	171279.267775	7
600	7th-8th	Machine-op-inspct	Puerto-Rico	171178.620321	45
901	Assoc-acdm	Prof-specialty	Thailand	177462.778514	1
536	7th-8th	?	Columbia	177526.773129	3
1161	Bachelors	Adm-clerical	Jamaica	188521.767296	1

SQL for Real:  
SELECT education,occupation,`native.country`,AVG(fnlwgt), COUNT(\*) FROM C1 WHERE (relationship IN ('Unmarried', 'Own-child') OR fnlwgt < 419895) GROUP BY education,occupation,`native.country`

Resulted in 1994 records

SQL for Synthetic:  
SELECT education,occupation,`native.country`,AVG(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (relationship IN ('Unmarried', 'Own-child') OR fnlwgt < 419895) GROUP BY education,occupation,`native.country`

Resulted in 2374 records

Normalized Euclidean distance for (fnlwgt): 32.39

Hellinger Distance: 0.342

=====

Real					
	relationship	workclass	marital.status	AVG(fnlwgt)	COUNT(*)
19	Husband	Self-emp-not-inc	Widowed	nan	nan
169	Unmarried	Self-emp-inc	Divorced	176674.239130	46.000000
68	Other-relative	?	Never-married	194720.289855	69.000000
66	Other-relative	?	Married-civ-spouse	249134.727273	11.000000
41	Not-in-family	Private	Married-AF-spouse	nan	nan

  

Synthetic					
	relationship	workclass	marital.status	AVG(fnlwgt)	COUNT(*)
19	Husband	Self-emp-not-inc	Widowed	161040.240767	1
169	Unmarried	Self-emp-inc	Divorced	174183.955784	34
68	Other-relative	?	Never-married	182904.442904	74
66	Other-relative	?	Married-civ-spouse	178818.102039	16
41	Not-in-family	Private	Married-AF-spouse	188527.416317	2

SQL for Real:  
SELECT relationship,workclass,`marital.status`,AVG(fnlwgt), COUNT(\*) FROM C1 WHERE (race = 'White') AND (relationship = 'Own-child' AND income <> '>50K') OR (fnlwgt <> 202191 OR capital = 0) OR (occupation <> 'Adm-clerical' OR `marital.status` <> 'Never-married') OR (sex = 'Female' OR education IN ('9th', 'Masters', 'Preschool', 'Assoc-voc', '11th', '1st-4th', 'Doctorate', '7th-8th', '12th', '10th', 'Prof-school', 'Bachelors')) OR (workclass LIKE 'Private' OR `hours.per.week` BETWEEN 60 AND 40) GROUP BY relationship,workclass,`marital.status`

Resulted in 171 records

SQL for Synthetic:  
SELECT relationship,workclass,`marital.status`,AVG(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (race = 'White') AND (relationship = 'Own-child' AND income <> '>50K') OR (fnlwgt <> 202191 OR capital = 0) OR (occupation <> 'Adm-clerical' OR `marital.status` <> 'Never-married') OR (sex = 'Female' OR education IN ('9th', 'Masters', 'Preschool', 'Assoc-voc', '11th', '1st-4th', 'Doctorate', '7th-8th', '12th', '10th', 'Prof-school', 'Bachelors')) OR (workclass LIKE 'Private' OR `hours.per.week` BETWEEN 60 AND 40) GROUP BY relationship,workclass,`marital.status`

Resulted in 209 records

Normalized Euclidean distance for (fnlwgt): 12.57

Hellinger Distance: 0.032

=====

Real				
	income	relationship	SUM(age)	COUNT(*)
6	>50K	Husband	389664	8686
1	<=50K	Not-in-family	428238	11307
10	>50K	Unmarried	13607	296
11	>50K	Wife	43776	1068
7	>50K	Not-in-family	54154	1250

  

Synthetic				
	income	relationship	SUM(age)	COUNT(*)
6	>50K	Husband	164056.000000	3652.000000
1	<=50K	Not-in-family	467606.000000	12106.000000
10	>50K	Unmarried	3842.000000	82.000000
11	>50K	Wife	21604.000000	533.000000
7	>50K	Not-in-family	14365.000000	318.000000

SQL for Real:  
SELECT income,relationship,SUM(age), COUNT(\*) FROM C1 WHERE (education LIKE 'Some-college' OR workclass IN ('Local-gov', '?', 'Private')) OR (`native.country` LIKE 'United-States' OR sex = 'Male') AND ((capital BETWEEN 0 AND -2042) AND age = 37) OR (race = 'White' OR income LIKE '<=50K') GROUP BY income,relationship

Resulted in 12 records

SQL for Synthetic:  
SELECT income,relationship,SUM(age), COUNT(\*) FROM C1\_syn\_06 WHERE (education LIKE 'Some-college' OR workclass IN ('Local-gov', '?', 'Private')) OR (`native.country` LIKE 'United-States' OR sex = 'Male') AND ((capital BETWEEN 0 AND -2042) AND age = 37) OR (race = 'White' OR income LIKE '<=50K') GROUP BY income,relationship

Resulted in 12 records

Normalized Euclidean distance for (age): 3.46

Hellinger Distance: 0.147

=====

Real											
	occupation	workclass	sex	marital.status	education	income	race	relationship	native.country	SUM(fnlwgt)	COUNT(*)
104	Transport-moving	Self-emp-not-inc	Male	Married-civ-spouse	Some-college	<=50K	White	Husband	United-States	1988773.000000	11.000000
40	Transport-moving	Private	Male	Married-civ-spouse	Some-college	<=50K	Amer-Indian-Eskimo	Husband	United-States	nan	nan
68	Transport-moving	Private	Male	Married-spouse-absent	Some-college	<=50K	White	Not-in-family	United-States	147989.000000	1.000000
112	Transport-moving	Self-emp-not-inc	Male	Separated	Some-college	<=50K	White	Own-child	Puerto-Rico	nan	nan
77	Transport-moving	Private	Male	Never-married	Some-college	<=50K	White	Not-in-family	United-States	5182219.000000	30.000000

Synthetic											
	occupation	workclass	sex	marital.status	education	income	race	relationship	native.country	SUM(fnlwgt)	COUNT(*)
104	Transport-moving	Self-emp-not-inc	Male	Married-civ-spouse	Some-college	<=50K	White	Husband	United-States	870995.964396	5
40	Transport-moving	Private	Male	Married-civ-spouse	Some-college	<=50K	Amer-Indian-Eskimo	Husband	United-States	164152.927823	1
68	Transport-moving	Private	Male	Married-spouse-absent	Some-college	<=50K	White	Not-in-family	United-States	181085.518171	1
112	Transport-moving	Self-emp-not-inc	Male	Separated	Some-college	<=50K	White	Own-child	Puerto-Rico	168157.046218	1
77	Transport-moving	Private	Male	Never-married	Some-college	<=50K	White	Not-in-family	United-States	2807629.042519	15

SQL for Real:  
SELECT occupation,workclass,sex,`marital.status`,education,income,race,relationship,`native.country`,SUM(fnlwgt), COUNT(\*) FROM C1 WHERE (education LIKE 'Some-college') AND ((capital BETWEEN 15024 AND 0) OR occupation LIKE 'Transport-moving') GROUP BY occupation,workclass,sex,`marital.status`,education,income,race,relationship,`native.country`

Resulted in 94 records

SQL for Synthetic:  
SELECT occupation,workclass,sex,`marital.status`,education,income,race,relationship,`native.country`,SUM(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (education LIKE 'Some-college') AND ((capital BETWEEN 15024 AND 0) OR occupation LIKE 'Transport-moving') GROUP BY occupation,workclass,sex,`marital.status`,education,income,race,relationship,`native.country`

Resulted in 123 records

Normalized Euclidean distance for (fnlwgt): 5.83

Hellinger Distance: 0.215

=====

Real						
	occupation	sex	native.country	education	income	SUM(`hours.per.week`) COUNT(*)
1411	Exec-managerial	Male	Thailand	Masters	>50K	nan nan
1367	Exec-managerial	Male	Puerto-Rico	1st-4th	<=50K	nan nan
776	Craft-repair	Male	?	Assoc-voc	>50K	140.000000 3.000000
3576	Sales	Male	United-States	5th-6th	<=50K	98.000000 3.000000
2202	Other-service	Female	Holand-Netherlands	HS-grad	<=50K	nan nan

Synthetic						
	occupation	sex	native.country	education	income	SUM(`hours.per.week`) COUNT(*)
1411	Exec-managerial	Male	Thailand	Masters	>50K	40.387970 1
1367	Exec-managerial	Male	Puerto-Rico	1st-4th	<=50K	40.025847 1
776	Craft-repair	Male	?	Assoc-voc	>50K	119.902595 3
3576	Sales	Male	United-States	5th-6th	<=50K	119.813716 3
2202	Other-service	Female	Holand-Netherlands	HS-grad	<=50K	119.461778 3

SQL for Real:  
SELECT occupation,sex,`native.country`,education,income,SUM(`hours.per.week`), COUNT(\*) FROM C1 WHERE (race = 'White' OR `marital.status` = 'Never-married') AND (`native.country` LIKE 'United-States' AND age BETWEEN 48 AND 50) AND ((capital BETWEEN 0 AND 0) AND workclass IN ('Self-emp-inc', '?', 'Self-emp-not-inc', 'Private')) AND ((fnlwgt BETWEEN 190628 AND 184471) AND occupation LIKE 'Prof-specialty') OR (relationship = 'Husband' OR education <> 'HS-grad') OR (income LIKE '<=50K' OR sex <> 'Male') GROUP BY occupation,sex,`native.country`,education,income

Resulted in 3172 records

SQL for Synthetic:  
SELECT occupation,sex,`native.country`,education,income,SUM(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE (race = 'White' OR `marital.status` = 'Never-married') AND (`native.country` LIKE 'United-States' AND age BETWEEN 48 AND 50) AND ((capital BETWEEN 0 AND 0) AND workclass IN ('Self-emp-inc', '?', 'Self-emp-not-inc', 'Private')) AND ((fnlwgt BETWEEN 190628 AND 184471) AND occupation LIKE 'Prof-specialty') OR (relationship = 'Husband' OR education <> 'HS-grad') OR (income LIKE '<=50K' OR sex <> 'Male') GROUP BY occupation,sex,`native.country`,education,income

Resulted in 4017 records

Normalized Euclidean distance for (`hours.per.week`): 37.26

Hellinger Distance: 0.335

=====

Real									
	marital.status	native.country	education	relationship	race	workclass	occupation	MIN(age)	COUNT(*)
987	Divorced	Puerto-Rico	11th	Not-in-family	White	?	Craft-repair	nan	nan
4672	Married-civ-spouse	Puerto-Rico	Bachelors	Wife	White	Self-emp-not-inc	Prof-specialty	nan	nan
1484	Divorced	Puerto-Rico	Some-college	Unmarried	Amer-Indian-Eskimo	Private	Exec-managerial	nan	nan
2698	Married-civ-spouse	?	HS-grad	Husband	White	State-gov	Craft-repair	nan	nan
8017	Never-married	Laos	Bachelors	Own-child	White	Self-emp-not-inc	Craft-repair	nan	nan

Synthetic									
	marital.status	native.country	education	relationship	race	workclass	occupation	MIN(age)	COUNT(*)
987	Divorced	Puerto-Rico	11th	Not-in-family	White	?	Craft-repair	62	1
4672	Married-civ-spouse	Puerto-Rico	Bachelors	Wife	White	Self-emp-not-inc	Prof-specialty	45	4
1484	Divorced	Puerto-Rico	Some-college	Unmarried	Amer-Indian-Eskimo	Private	Exec-managerial	44	1
2698	Married-civ-spouse	?	HS-grad	Husband	White	State-gov	Craft-repair	36	1
8017	Never-married	Laos	Bachelors	Own-child	White	Self-emp-not-inc	Craft-repair	34	1

SQL for Real:  
SELECT `marital.status`,`native.country`,education,relationship,race,workclass,occupation,MIN(age), COUNT(\*) FROM C1 WHERE (sex <> 'Male' OR race LIKE 'White') GROUP BY `marital.status`,`native.country`,education,relationship,race,workclass,occupation

Resulted in 8130 records

SQL for Synthetic:  
SELECT `marital.status`,`native.country`,education,relationship,race,workclass,occupation,MIN(age), COUNT(\*) FROM C1\_syn\_06 WHERE (sex <> 'Male' OR race LIKE 'White') GROUP BY `marital.status`,`native.country`,education,relationship,race,workclass,occupation

Resulted in 12535 records

Normalized Euclidean distance for (age): 56.58

Hellinger Distance: 0.228

=====

Real						
	marital.status	workclass	income	relationship	race	MAX(`hours.per.week`) COUNT(*)
109	Married-civ-spouse	Self-emp-inc	<=50K	Wife	White	40 4
23	Divorced	Local-gov	<=50K	Unmarried	White	40 29
0	Divorced	?	<=50K	Not-in-family	Asian-Pac-Islander	40 1
99	Married-civ-spouse	Private	<=50K	Wife	Asian-Pac-Islander	40 9
54	Divorced	State-gov	<=50K	Other-relative	Black	32 1

Synthetic						
	marital.status	workclass	income	relationship	race	MAX(`hours.per.week`) COUNT(*)
109	Married-civ-spouse	Self-emp-inc	<=50K	Wife	White	nan nan
23	Divorced	Local-gov	<=50K	Unmarried	White	nan nan
0	Divorced	?	<=50K	Not-in-family	Asian-Pac-Islander	nan nan
99	Married-civ-spouse	Private	<=50K	Wife	Asian-Pac-Islander	nan nan
54	Divorced	State-gov	<=50K	Other-relative	Black	nan nan

SQL for Real:  
SELECT `marital.status`,workclass,income,relationship,race,MAX(`hours.per.week`), COUNT(\*) FROM C1 WHERE (race IN ('Other', 'Asian-Pac-Islander', 'White') OR sex IN ('Male', 'Female')) AND (income LIKE '<=50K' AND capital BETWEEN 0 AND 0) AND ((`hours.per.week` BETWEEN 20 AND 40) AND education IN ('1st-4th', 'Bachelors', '11th', '9th', 'Assoc-acdm', '7th-8th')) OR (relationship = 'Not-in-family' OR age = 43) AND (`marital.status` LIKE 'Married-civ-spouse' AND `native.country` IN ('Dominican-Republic', 'England', 'Ireland', 'Poland')) GROUP BY `marital.status`,workclass,income,relationship,race

Resulted in 327 records

SQL for Synthetic:  
SELECT `marital.status`,workclass,income,relationship,race,MAX(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE (race IN ('Other', 'Asian-Pac-Islander', 'White') OR sex IN ('Male', 'Female')) AND (income LIKE '<=50K' AND capital BETWEEN 0 AND 0) AND ((`hours.per.week` BETWEEN 20 AND 40) AND education IN ('1st-4th', 'Bachelors', '11th', '9th', 'Assoc-acdm', '7th-8th')) OR (relationship = 'Not-in-family' OR age = 43) AND (`marital.status` LIKE 'Married-civ-spouse' AND `native.country` IN ('Dominican-Republic', 'England', 'Ireland', 'Poland')) GROUP BY `marital.status`,workclass,income,relationship,race

Resulted in 1 records

Normalized Euclidean distance for (`hours.per.week`): 0.0

Hellinger Distance: 0.0

=====

Real											
	income	sex	marital.status	relationship	education	occupation	race	native.country	workclass	MIN(age)	COUNT(*)
494	<=50K	Female	Divorced	Own-child	Assoc-acdm	Adm-clerical	White	United-States	Private	30	3
8778	<=50K	Male	Never-married	Own-child	HS-grad	Adm-clerical	White	United-States	Local-gov	19	5
4655	<=50K	Male	Divorced	Not-in-family	Assoc-voc	Exec-managerial	Amer-Indian-Eskimo	United-States	Local-gov	53	1
8657	<=50K	Male	Never-married	Own-child	Assoc-voc	Farming-fishing	White	United-States	Private	20	4
7724	<=50K	Male	Never-married	Not-in-family	Doctorate	Prof-specialty	White	United-States	Self-emp-not-inc	41	1

Synthetic											
	income	sex	marital.status	relationship	education	occupation	race	native.country	workclass	MIN(age)	COUNT(*)
494	<=50K	Female	Divorced	Own-child	Assoc-acdm	Adm-clerical	White	United-States	Private	nan	nan
8778	<=50K	Male	Never-married	Own-child	HS-grad	Adm-clerical	White	United-States	Local-gov	nan	nan
4655	<=50K	Male	Divorced	Not-in-family	Assoc-voc	Exec-managerial	Amer-Indian-Eskimo	United-States	Local-gov	nan	nan
8657	<=50K	Male	Never-married	Own-child	Assoc-voc	Farming-fishing	White	United-States	Private	nan	nan
7724	<=50K	Male	Never-married	Not-in-family	Doctorate	Prof-specialty	White	United-States	Self-emp-not-inc	nan	nan

SQL for Real:  
SELECT income,sex,`marital.status`,relationship,education,occupation,race,`native.country`,workclass,MIN(age), COUNT(\*) FROM C1 WHERE (sex LIKE 'Female') OR ((age BETWEEN 55 AND 25) OR capital = 0) GROUP BY income,sex,`marital.status`,relationship,education,occupation,race,`native.country`,workclass

Resulted in 11974 records

SQL for Synthetic:  
SELECT income,sex,`marital.status`,relationship,education,occupation,race,`native.country`,workclass,MIN(age), COUNT(\*) FROM C1\_syn\_06 WHERE (sex LIKE 'Female') OR ((age BETWEEN 55 AND 25) OR capital = 0) GROUP BY income,sex,`marital.status`,relationship,education,occupation,race,`native.country`,workclass

Resulted in 7579 records

Normalized Euclidean distance for (age): 41.44

Hellinger Distance: 0.196

=====

Real										
	marital.status	native.country	race	workclass	income	relationship	sex	occupation	MIN(capital)	COUNT(*)
2171	Never-married	United-States	White	Private	<=50K	Other-relative	Female	Adm-clerical	0	41
1410	Married-spouse-absent	United-States	Black	Private	<=50K	Not-in-family	Male	Other-service	0	1
2238	Never-married	United-States	White	Private	<=50K	Unmarried	Male	Farming-fishing	0	15
360	Divorced	United-States	White	Local-gov	<=50K	Not-in-family	Female	Transport-moving	0	3
1828	Never-married	United-States	Black	Private	<=50K	Other-relative	Female	Other-service	0	11

Synthetic										
	marital.status	native.country	race	workclass	income	relationship	sex	occupation	MIN(capital)	COUNT(*)
2171	Never-married	United-States	White	Private	<=50K	Other-relative	Female	Adm-clerical	nan	nan
1410	Married-spouse-absent	United-States	Black	Private	<=50K	Not-in-family	Male	Other-service	nan	nan
2238	Never-married	United-States	White	Private	<=50K	Unmarried	Male	Farming-fishing	nan	nan
360	Divorced	United-States	White	Local-gov	<=50K	Not-in-family	Female	Transport-moving	nan	nan
1828	Never-married	United-States	Black	Private	<=50K	Other-relative	Female	Other-service	nan	nan



SQL for Real:  
SELECT `marital.status`,`native.country`,race,workclass,income,relationship,sex,occupation,MIN(capital), COUNT(\*) FROM C1 WHERE (capital = 0 AND `native.country` LIKE 'United-States') GROUP BY `marital.status`,`native.country`,race,workclass,income,relationship,sex,occupation

Resulted in 3105 records

SQL for Synthetic:  
SELECT `marital.status`,`native.country`,race,workclass,income,relationship,sex,occupation,MIN(capital), COUNT(\*) FROM C1\_syn\_06 WHERE (capital = 0 AND `native.country` LIKE 'United-States') GROUP BY `marital.status`,`native.country`,race,workclass,income,relationship,sex,occupation

Resulted in 0 records

Normalized Euclidean distance for (capital): nan

Hellinger Distance: nan

=====

	Real								
	native.country	race	sex	workclass	relationship	education	marital.status	MIN(capital)	COUNT(*)
1953	Japan	Black	Male	Private	Husband	9th	Married-civ-spouse	nan	nan
5360	United-States	Black	Female	State-gov	Unmarried	Some-college	Divorced	0.000000	7.000000
3864	Puerto-Rico	White	Female	Self-emp-not-inc	Not-in-family	HS-grad	Never-married	nan	nan
4372	Puerto-Rico	White	Male	Self-emp-not-inc	Own-child	Assoc-acdm	Married-spouse-absent	nan	nan
6149	United-States	White	Female	Private	Unmarried	Assoc-acdm	Divorced	-2238.000000	47.000000

	Synthetic								
	native.country	race	sex	workclass	relationship	education	marital.status	MIN(capital)	COUNT(*)
1953	Japan	Black	Male	Private	Husband	9th	Married-civ-spouse	30.655048	1
5360	United-States	Black	Female	State-gov	Unmarried	Some-college	Divorced	-108.514460	4
3864	Puerto-Rico	White	Female	Self-emp-not-inc	Not-in-family	HS-grad	Never-married	-84.214585	5
4372	Puerto-Rico	White	Male	Self-emp-not-inc	Own-child	Assoc-acdm	Married-spouse-absent	-114.909826	1
6149	United-States	White	Female	Private	Unmarried	Assoc-acdm	Divorced	-236.962343	29

SQL for Real:  
SELECT `native.country`,race,sex,workclass,relationship,education,`marital.status`,MIN(capital), COUNT(\*) FROM C1 WHERE (education <> 'Bachelors') AND (occupation <> 'Sales' AND race IN ('Asian-Pac-Islander', 'Other', 'Black', 'White', 'Amer-Indian-Eskimo')) OR (capital = 0 OR age BETWEEN 27 AND 62) AND (income LIKE '>50K' AND fnlwgt BETWEEN 135388 AND 236091) OR (workclass IN ('Local-gov', 'Self-emp-not-inc', '?', 'State-gov', 'Self-emp-inc', 'Private', 'Federal-gov') OR `marital.status` <> 'Married-civ-spouse') AND (relationship LIKE 'Husband' AND `native.country` = 'United-States') GROUP BY `native.country`,race,sex,workclass,relationship,education,`marital.status`

Resulted in 5167 records

SQL for Synthetic:  
SELECT `native.country`,race,sex,workclass,relationship,education,`marital.status`,MIN(capital), COUNT(\*) FROM C1\_syn\_06 WHERE (education <> 'Bachelors') AND (occupation <> 'Sales' AND race IN ('Asian-Pac-Islander', 'Other', 'Black', 'White', 'Amer-Indian-Eskimo')) OR (capital = 0 OR age BETWEEN 27 AND 62) AND (income LIKE '>50K' AND fnlwgt BETWEEN 135388 AND 236091) OR (workclass IN ('Local-gov', 'Self-emp-not-inc', '?', 'State-gov', 'Self-emp-inc', 'Private', 'Federal-gov') OR `marital.status` <> 'Married-civ-spouse') AND (relationship LIKE 'Husband' AND `native.country` = 'United-States') GROUP BY `native.country`,race,sex,workclass,relationship,education,`marital.status`

Resulted in 7159 records

Normalized Euclidean distance for (capital): 44.78

Hellinger Distance: 0.29

=====

	Real				
	occupation	income	relationship	MAX(capital)	COUNT(*)
50	Other-service	>50K	Unmarried	0	1
33	Exec-managerial	>50K	Wife	15024	1
0	?	<=50K	Husband	6767	534
75	Transport-moving	<=50K	Unmarried	0	1
3	?	<=50K	Own-child	34095	872

	Synthetic				
	occupation	income	relationship	MAX(capital)	COUNT(*)
50	Other-service	>50K	Unmarried	nan	nan
33	Exec-managerial	>50K	Wife	-3.395264	3.000000
0	?	<=50K	Husband	483.749628	629.000000
75	Transport-moving	<=50K	Unmarried	10.560411	1.000000
3	?	<=50K	Own-child	354.918062	883.000000

SQL for Real:  
SELECT occupation,income,relationship,MAX(capital), COUNT(\*) FROM C1 WHERE (relationship IN ('Not-in-family', 'Wife', 'Other-relative', 'Unmarried', 'Husband', 'Own-child')) AND (education <> 'HS-grad' AND fnlwgt >= 183884) AND (sex = 'Male' AND age BETWEEN 38 AND 26) OR (`native.country` IN ('Iran', 'Trinidad&Tobago', 'South', 'Outlying-US(Guam-USVI-etc)') OR occupation = '?') GROUP BY occupation,income,relationship

Resulted in 76 records

SQL for Synthetic:  
SELECT occupation,income,relationship,MAX(capital), COUNT(\*) FROM C1\_syn\_06 WHERE (relationship IN ('Not-in-family', 'Wife', 'Other-relative', 'Unmarried', 'Husband', 'Own-child')) AND (education <> 'HS-grad' AND fnlwgt >= 183884) AND (sex = 'Male' AND age BETWEEN 38 AND 26) OR (`native.country` IN ('Iran', 'Trinidad&Tobago', 'South', 'Outlying-US(Guam-USVI-etc)') OR occupation = '?') GROUP BY occupation,income,relationship

Resulted in 72 records

Normalized Euclidean distance for (capital): 7.55

Hellinger Distance: 0.136

=====

Real		
	income	SUM(`hours.per.week`) COUNT(*)
1	>50K	531168 11686
0	<=50K	1443102 37155

Synthetic		
	income	SUM(`hours.per.week`) COUNT(*)
1	>50K	191049.236539 4762.000000
0	<=50K	1761886.259794 44080.000000

SQL for Real:  
SELECT income,SUM(`hours.per.week`), COUNT(\*) FROM C1 WHERE (age >= 57) AND (income = '>50K' AND race = 'White') AND (relationship IN ('Wife', 'Unmarried', 'Other-relative', 'Husband', 'Own-child', 'Not-in-family') AND `hours.per.week` BETWEEN 38 AND 40) OR (education LIKE 'HS-grad' OR capital < 0) OR (workclass LIKE 'Private' OR fnlwtg <= 510072) GROUP BY income

Resulted in 2 records

SQL for Synthetic:  
SELECT income,SUM(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE (age >= 57) AND (income = '>50K' AND race = 'White') AND (relationship IN ('Wife', 'Unmarried', 'Other-relative', 'Husband', 'Own-child', 'Not-in-family') AND `hours.per.week` BETWEEN 38 AND 40) OR (education LIKE 'HS-grad' OR capital < 0) OR (workclass LIKE 'Private' OR fnlwtg <= 510072) GROUP BY income

Resulted in 2 records

Normalized Euclidean distance for (`hours.per.week`): 1.41

Hellinger Distance: 0.137

=====

Real										
education	relationship	income	marital.status	native.country	workclass	sex	occupation	race	MAX(fnlwgt)	COUNT(*)
Synthetic										
education	relationship	income	marital.status	native.country	workclass	sex	occupation	race	MAX(fnlwgt)	COUNT(*)

SQL for Real:  
SELECT education,relationship,income,`marital.status`,`native.country`,workclass,sex,occupation,race,MAX(fnlwgt), COUNT(\*) FROM C1 WHERE (`native.country` <> 'United-States') AND ((fnlwgt BETWEEN 200560 AND 108438) AND age > 34) OR (income LIKE '<=50K' OR sex LIKE 'Male') AND (capital > 0 AND `hours.per.week` BETWEEN 40 AND 20) AND (education LIKE '9th' AND `marital.status` LIKE 'Never-married') AND (occupation LIKE 'Tech-support' AND relationship LIKE 'Not-in-family') GROUP BY education,relationship,income,`marital.status`,`native.country`,workclass,sex,occupation,race

Resulted in 0 records

SQL for Synthetic:  
SELECT education,relationship,income,`marital.status`,`native.country`,workclass,sex,occupation,race,MAX(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (`native.country` <> 'United-States') AND ((fnlwgt BETWEEN 200560 AND 108438) AND age > 34) OR (income LIKE '<=50K' OR sex LIKE 'Male') AND (capital > 0 AND `hours.per.week` BETWEEN 40 AND 20) AND (education LIKE '9th' AND `marital.status` LIKE 'Never-married') AND (occupation LIKE 'Tech-support' AND relationship LIKE 'Not-in-family') GROUP BY education,relationship,income,`marital.status`,`native.country`,workclass,sex,occupation,race

Resulted in 0 records

Normalized Euclidean distance for (fnlwgt): nan

Hellinger Distance: nan

=====

Real										
	relationship	marital.status	workclass	occupation	native.country	race	income	education	sex	SUM(age) COUNT(*)
12767	Own-child	Never-married	Self-emp-not-inc	Sales	United-States	White	<=50K	Some-college	Female	64.000000 2.000000
6691	Not-in-family	Never-married	Private	Adm-clerical	United-States	White	<=50K	Bachelors	Male	1337.000000 44.000000
4400	Not-in-family	Divorced	Local-gov	Exec-managerial	Japan	White	<=50K	Masters	Male	nan nan
6572	Not-in-family	Never-married	Private	Adm-clerical	India	Black	<=50K	HS-grad	Female	nan nan
15765	Unmarried	Widowed	Private	Machine-op-inspct	United-States	Black	<=50K	HS-grad	Female	236.000000 5.000000
Synthetic										
	relationship	marital.status	workclass	occupation	native.country	race	income	education	sex	SUM(age) COUNT(*)
12767	Own-child	Never-married	Self-emp-not-inc	Sales	United-States	White	<=50K	Some-college	Female	43 2
6691	Not-in-family	Never-married	Private	Adm-clerical	United-States	White	<=50K	Bachelors	Male	1037 34
4400	Not-in-family	Divorced	Local-gov	Exec-managerial	Japan	White	<=50K	Masters	Male	40 1
6572	Not-in-family	Never-married	Private	Adm-clerical	India	Black	<=50K	HS-grad	Female	28 1
15765	Unmarried	Widowed	Private	Machine-op-inspct	United-States	Black	<=50K	HS-grad	Female	119 2

SQL for Real:  
SELECT relationship,`marital.status`,workclass,occupation,`native.country`,race,income,education,sex,SUM(age), COUNT(\*) FROM C1 WHERE (`marital.status` LIKE 'Divorced' OR workclass = 'Private') AND (relationship LIKE 'Husband' AND occupation LIKE 'Machine-op-inspct') OR (sex LIKE 'Female' OR `hours.per.week` BETWEEN 10 AND 45) OR (capital = 0 OR fnlwgt = 241895) GROUP BY relationship,`marital.status`,workclass,occupation,`native.country`,race,income,education,sex

Resulted in 12433 records

SQL for Synthetic:  
SELECT relationship,`marital.status`,workclass,occupation,`native.country`,race,income,education,sex,SUM(age), COUNT(\*) FROM C1\_syn\_06 WHERE (`marital.status` LIKE 'Divorced' OR workclass = 'Private') AND (relationship LIKE 'Husband' AND occupation LIKE 'Machine-op-inspct') OR (sex LIKE 'Female' OR `hours.per.week` BETWEEN 10 AND 45) OR (capital = 0 OR fnlwgt = 241895) GROUP BY relationship,`marital.status`,workclass,occupation,`native.country`,race,income,education,sex

Resulted in 17127 records

Normalized Euclidean distance for (age): 64.44

Hellinger Distance: 0.245

=====

Real										
income	race	workclass	relationship	sex	education	marital.status	SUM(`hours.per.week`)	COUNT(*)		

Synthetic

income race workclass relationship sex education marital.status SUM(`hours.per.week`) COUNT(\*)

SQL for Real:

SELECT income,race,workclass,relationship,sex,education,`marital.status`,SUM(`hours.per.week`),COUNT(\*) FROM C1 WHERE (relationship IN ('Unmarried', 'Not-in-family', 'Husband', 'Own-child')) AND (`native.country` IN ('Germany', 'Columbia', 'Ecuador', 'Italy', 'Guatemala', 'Jamaica', 'Hong', 'China', 'Honduras', 'Outlying-US(Guam-USVI-etc)', 'Philippines', 'Puerto-Rico', 'Poland', 'Canada', '?', 'Cambodia', 'Thailand', 'Taiwan', 'Holand-Netherlands', 'Cuba', 'Haiti', 'India') AND `marital.status` LIKE 'Never-married') AND (fnlwtg = 113843 AND occupation IN ('Farming-fishing', 'Handlers-cleaners', 'Tech-support', 'Priv-house-serv', 'Transport-moving', 'Exec-managerial', 'Sales', 'Prof-specialty', '?', 'Adm-clerical', 'Craft-repair')) AND (education IN ('Some-college', '5th-6th', 'Bachelors', 'Prof-school', '9th', '11th', 'Assoc-voc', 'Assoc-acdm', 'HS-grad', 'Preschool', '12th', 'Doctorate', 'Masters', '10th') AND capital BETWEEN 0 AND 0) GROUP BY income,race,workclass,relationship,sex,education,`marital.status`

Resulted in 0 records

SQL for Synthetic:

SELECT income,race,workclass,relationship,sex,education,`marital.status`,SUM(`hours.per.week`),COUNT(\*) FROM C1\_syn\_06 WHERE (relationship IN ('Unmarried', 'Not-in-family', 'Husband', 'Own-child')) AND (`native.country` IN ('Germany', 'Columbia', 'Ecuador', 'Italy', 'Guatemala', 'Jamaica', 'Hong', 'China', 'Honduras', 'Outlying-US(Guam-USVI-etc)', 'Philippines', 'Puerto-Rico', 'Poland', 'Canada', '?', 'Cambodia', 'Thailand', 'Taiwan', 'Holand-Netherlands', 'Cuba', 'Haiti', 'India') AND `marital.status` LIKE 'Never-married') AND (fnlwtg = 113843 AND occupation IN ('Farming-fishing', 'Handlers-cleaners', 'Tech-support', 'Priv-house-serv', 'Transport-moving', 'Exec-managerial', 'Sales', 'Prof-specialty', '?', 'Adm-clerical', 'Craft-repair')) AND (education IN ('Some-college', '5th-6th', 'Bachelors', 'Prof-school', '9th', '11th', 'Assoc-voc', 'Assoc-acdm', 'HS-grad', 'Preschool', '12th', 'Doctorate', 'Masters', '10th') AND capital BETWEEN 0 AND 0) GROUP BY income,race,workclass,relationship,sex,education,`marital.status`

Resulted in 0 records

Normalized Euclidean distance for (`hours.per.week`): nan

Hellinger Distance: nan

=====

	Real								
	income	marital.status	native.country	occupation	relationship	workclass	education	MIN(`hours.per.week`)	COUNT(*)
8331	>50K	Married-civ-spouse	Japan	Exec-managerial	Other-relative	Private	Bachelors	nan	nan
242	<=50K	Divorced	Hungary	Exec-managerial	Unmarried	Private	Some-college	nan	nan
7952	<=50K	Widowed	United-States	Sales	Unmarried	Private	12th	40.000000	1.000000
3147	<=50K	Married-civ-spouse	Puerto-Rico	Sales	Wife	Private	HS-grad	nan	nan
7080	<=50K	Separated	Puerto-Rico	Tech-support	Not-in-family	Private	Some-college	nan	nan

	Synthetic								
	income	marital.status	native.country	occupation	relationship	workclass	education	MIN(`hours.per.week`)	COUNT(*)
8331	>50K	Married-civ-spouse	Japan	Exec-managerial	Other-relative	Private	Bachelors	40.078594	1
242	<=50K	Divorced	Hungary	Exec-managerial	Unmarried	Private	Some-college	40.013028	2
7952	<=50K	Widowed	United-States	Sales	Unmarried	Private	12th	39.968278	1
3147	<=50K	Married-civ-spouse	Puerto-Rico	Sales	Wife	Private	HS-grad	40.005109	5
7080	<=50K	Separated	Puerto-Rico	Tech-support	Not-in-family	Private	Some-college	40.033564	1

SQL for Real:

SELECT income,`marital.status`,`native.country`,occupation,relationship,workclass,education,MIN(`hours.per.week`),COUNT(\*) FROM C1 WHERE (sex = 'Female') AND (`marital.status` IN ('Married-AF-spouse', 'Never-married') AND relationship LIKE 'Husband') OR (`native.country` = 'United-States' OR fnlwtg >= 357596) OR (workclass <> 'Private' OR race = 'White') AND (`hours.per.week` > 40 AND income IN ('<=50K', '>50K')) GROUP BY income,`marital.status`,`native.country`,occupation,relationship,workclass,education

Resulted in 6399 records

SQL for Synthetic:

SELECT income,`marital.status`,`native.country`,occupation,relationship,workclass,education,MIN(`hours.per.week`),COUNT(\*) FROM C1\_syn\_06 WHERE (sex = 'Female') AND (`marital.status` IN ('Married-AF-spouse', 'Never-married') AND relationship LIKE 'Husband') OR (`native.country` = 'United-States' OR fnlwtg >= 357596) OR (workclass <> 'Private' OR race = 'White') AND (`hours.per.week` > 40 AND income IN ('<=50K', '>50K')) GROUP BY income,`marital.status`,`native.country`,occupation,relationship,workclass,education

Resulted in 9203 records

Normalized Euclidean distance for (`hours.per.week`): 54.71

Hellinger Distance: 0.201

=====

	Real								
	native.country	marital.status	race	occupation	relationship	income	workclass	MIN(age)	COUNT(*)
4516	Puerto-Rico	Never-married	White	Adm-clerical	Own-child	<=50K	Self-emp-inc	nan	nan
1015	Columbia	Never-married	White	Protective-serv	Not-in-family	<=50K	State-gov	nan	nan
3814	Puerto-Rico	Divorced	White	Machine-op-inspct	Other-relative	<=50K	Private	nan	nan
2984	Mexico	Married-civ-spouse	White	Exec-managerial	Husband	<=50K	Private	29.000000	7.000000
3829	Puerto-Rico	Divorced	White	Other-service	Unmarried	<=50K	Private	41.000000	2.000000

	Synthetic								
	native.country	marital.status	race	occupation	relationship	income	workclass	MIN(age)	COUNT(*)
4516	Puerto-Rico	Never-married	White	Adm-clerical	Own-child	<=50K	Self-emp-inc	20	2
1015	Columbia	Never-married	White	Protective-serv	Not-in-family	<=50K	State-gov	32	1
3814	Puerto-Rico	Divorced	White	Machine-op-inspct	Other-relative	<=50K	Private	46	2
2984	Mexico	Married-civ-spouse	White	Exec-managerial	Husband	<=50K	Private	34	2
3829	Puerto-Rico	Divorced	White	Other-service	Unmarried	<=50K	Private	28	54

SQL for Real:

SELECT `native.country`,`marital.status`,race,occupation,relationship,income,workclass,MIN(age),COUNT(\*) FROM C1 WHERE (education IN ('Some-college', 'Masters', '5th-6th', 'Preschool', '10th') OR `native.country` <> 'United-States') OR (`hours.per.week` < 12 OR workclass = 'Private') GROUP BY `native.country`,`marital.status`,race,occupation,relationship,income,workclass

Resulted in 4888 records

SQL for Synthetic:

SELECT `native.country`,`marital.status`,race,occupation,relationship,income,workclass,MIN(age),COUNT(\*) FROM C1\_syn\_06 WHERE (education IN ('Some-college', 'Masters', '5th-6th', 'Preschool', '10th') OR `native.country` <> 'United-States') OR (`hours.per.week` < 12 OR workclass = 'Private') GROUP BY `native.country`,`marital.status`,race,occupation,relationship,income,workclass

Resulted in 7015 records

Normalized Euclidean distance for (age): 42.01

Hellinger Distance: 0.327

=====

Real								
	relationship	income	native.country	education	occupation	sex	SUM(fnlwgt)	COUNT(*)
2158	Not-in-family	<=50K	Columbia	Masters	Sales	Female	nan	nan
5494	Own-child	<=50K	United-States	11th	Transport-moving	Female	475582.000000	2.000000
1207	Husband	<=50K	United-States	11th	Sales	Male	2825278.000000	19.000000
5501	Own-child	<=50K	United-States	12th	Craft-repair	Male	2549041.000000	11.000000
7260	Wife	<=50K	Puerto-Rico	Bachelors	Adm-clerical	Female	26668.000000	1.000000

Synthetic								
	relationship	income	native.country	education	occupation	sex	SUM(fnlwgt)	COUNT(*)
2158	Not-in-family	<=50K	Columbia	Masters	Sales	Female	355358.739936	2
5494	Own-child	<=50K	United-States	11th	Transport-moving	Female	159604.372382	1
1207	Husband	<=50K	United-States	11th	Sales	Male	3897825.998871	22
5501	Own-child	<=50K	United-States	12th	Craft-repair	Male	1874941.563083	10
7260	Wife	<=50K	Puerto-Rico	Bachelors	Adm-clerical	Female	2216541.075038	13

SQL for Real:  
SELECT relationship,income,`native.country`,education,occupation,sex,SUM(fnlwgt), COUNT(\*) FROM C1 WHERE (education IN ('Doctorate', 'Some-college', '7th-8th', '9th', 'Masters', '5th-6th', 'HS-grad', 'Prof-school', 'Preschool', '11th') AND age = 45) OR (`native.country` LIKE 'United-States' OR income IN ('>50K', '<=50K')) GROUP BY relationship,income,`native.country`,education,occupation,sex

Resulted in 5296 records

SQL for Synthetic:  
SELECT relationship,income,`native.country`,education,occupation,sex,SUM(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (education IN ('Doctorate', 'Some-college', '7th-8th', '9th', 'Masters', '5th-6th', 'HS-grad', 'Prof-school', 'Preschool', '11th') AND age = 45) OR (`native.country` LIKE 'United-States' OR income IN ('>50K', '<=50K')) GROUP BY relationship,income,`native.country`,education,occupation,sex

Resulted in 7620 records

Normalized Euclidean distance for (fnlwgt): 46.97

Hellinger Distance: 0.286

=====

Real							
	native.country	sex	income	workclass	marital.status	AVG(fnlwgt)	COUNT(*)
184	England	Male	>50K	Federal-gov	Married-civ-spouse	32528.000000	1
627	United-States	Female	<=50K	State-gov	Widowed	146221.846154	26
746	United-States	Male	>50K	Self-emp-not-inc	Widowed	169330.250000	4
719	United-States	Male	>50K	Federal-gov	Never-married	166191.727273	11
589	United-States	Female	<=50K	?	Widowed	162419.707317	123

Synthetic							
	native.country	sex	income	workclass	marital.status	AVG(fnlwgt)	COUNT(*)
184	England	Male	>50K	Federal-gov	Married-civ-spouse	nan	nan
627	United-States	Female	<=50K	State-gov	Widowed	159898.082099	34.000000
746	United-States	Male	>50K	Self-emp-not-inc	Widowed	nan	nan
719	United-States	Male	>50K	Federal-gov	Never-married	179078.889857	7.000000
589	United-States	Female	<=50K	?	Widowed	166630.970127	100.000000

SQL for Real:  
SELECT `native.country`,sex,income,workclass,`marital.status`,AVG(fnlwgt), COUNT(\*) FROM C1 WHERE (fnlwgt BETWEEN 83827 AND 31327) OR (relationship <> 'Not-in-family' AND age = 30) OR (`native.country` LIKE 'United-States' OR sex LIKE 'Male') AND (income IN ('>50K', '<=50K') AND `hours.per.week` <> 40) OR (`marital.status` LIKE 'Never-married' OR education IN ('11th', '5th-6th', 'Doctorate', '9th', 'Some-college', '10th', '7th-8th', 'Assoc-voc', 'Preschool', 'HS-grad', '1st-4th', '12th', 'Prof-school', 'Bachelors', 'Assoc-acdm', 'Masters')) AND (occupation LIKE 'Adm-clerical' AND capital BETWEEN 0 AND 0) GROUP BY `native.country`,sex,income,workclass,`marital.status`

Resulted in 769 records

SQL for Synthetic:  
SELECT `native.country`,sex,income,workclass,`marital.status`,AVG(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (fnlwgt BETWEEN 83827 AND 31327) OR (relationship <> 'Not-in-family' AND age = 30) OR (`native.country` LIKE 'United-States' OR sex LIKE 'Male') AND (income IN ('>50K', '<=50K') AND `hours.per.week` <> 40) OR (`marital.status` LIKE 'Never-married' OR education IN ('11th', '5th-6th', 'Doctorate', '9th', 'Some-college', '10th', '7th-8th', 'Assoc-voc', 'Preschool', 'HS-grad', '1st-4th', '12th', 'Prof-school', 'Bachelors', 'Assoc-acdm', 'Masters')) AND (occupation LIKE 'Adm-clerical' AND capital BETWEEN 0 AND 0) GROUP BY `native.country`,sex,income,workclass,`marital.status`

Resulted in 755 records

Normalized Euclidean distance for (fnlwgt): 18.84

Hellinger Distance: 0.353

=====

Real				
	marital.status	workclass	MAX(fnlwgt)	COUNT(*)
46	Widowed	State-gov	420526	42
19	Married-spouse-absent	?	558183	45
18	Married-civ-spouse	State-gov	1033222	464
33	Separated	?	672412	97
37	Separated	Self-emp-inc	505365	25

		Synthetic		
	marital.status	workclass	MAX(fnlwgt)	COUNT(*)
46	Widowed	State-gov	203170.265382	58.000000
19	Married-spouse-absent	?	192738.629280	33.000000
18	Married-civ-spouse	State-gov	1340619.957202	664.000000
33	Separated	?	1338996.446401	85.000000
37	Separated	Self-emp-inc	188480.770664	20.000000

SQL for Real:  
SELECT `marital.status`,workclass,MAX(fnlwgt), COUNT(\*) FROM C1 WHERE (sex = 'Male' AND education <> 'Some-college') AND (race <> 'White' AND `hours.per.week` <= 40) OR (`marital.status` = 'Separated' OR income = '<=50K') GROUP BY `marital.status`,workclass

Resulted in 47 records

SQL for Synthetic:  
SELECT `marital.status`,workclass,MAX(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (sex = 'Male' AND education <> 'Some-college') AND (race <> 'White' AND `hours.per.week` <= 40) OR (`marital.status` = 'Separated' OR income = '<=50K') GROUP BY `marital.status`,workclass

Resulted in 47 records

Normalized Euclidean distance for (fnlwgt): 6.86

Hellinger Distance: 0.056

=====

			Real		
	relationship	marital.status	race	AVG(`hours.per.week`)	COUNT(*)
63	Own-child	Separated	White	43.833333	12.000000
37	Other-relative	Married-spouse-absent	Black	nan	nan
90	Wife	Never-married	Other	nan	nan
82	Unmarried	Widowed	Asian-Pac-Islander	nan	nan
79	Unmarried	Never-married	White	38.838588	793.000000

			Synthetic		
	relationship	marital.status	race	AVG(`hours.per.week`)	COUNT(*)
63	Own-child	Separated	White	39.975196	15
37	Other-relative	Married-spouse-absent	Black	40.027019	1
90	Wife	Never-married	Other	40.007400	1
82	Unmarried	Widowed	Asian-Pac-Islander	39.003188	1
79	Unmarried	Never-married	White	39.939168	890

SQL for Real:  
SELECT relationship,`marital.status`,race,AVG(`hours.per.week`), COUNT(\*) FROM C1 WHERE (`marital.status` IN ('Married-civ-spouse', 'Never-married')) OR (occupation <> 'Other-service' AND education = 'Some-college') AND (workclass IN ('Self-emp-not-inc', 'Federal-gov', 'Local-gov', 'State-gov', '?', 'Private') AND income IN ('>50K', '<=50K')) AND (relationship IN ('Husband', 'Unmarried', 'Other-relative', 'Own-child', 'Not-in-family') AND sex LIKE 'Male') GROUP BY relationship,`marital.status`,race

Resulted in 89 records

SQL for Synthetic:  
SELECT relationship,`marital.status`,race,AVG(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE (`marital.status` IN ('Married-civ-spouse', 'Never-married')) OR (occupation <> 'Other-service' AND education = 'Some-college') AND (workclass IN ('Self-emp-not-inc', 'Federal-gov', 'Local-gov', 'State-gov', '?', 'Private') AND income IN ('>50K', '<=50K')) AND (relationship IN ('Husband', 'Unmarried', 'Other-relative', 'Own-child', 'Not-in-family') AND sex LIKE 'Male') GROUP BY relationship,`marital.status`,race

Resulted in 92 records

Normalized Euclidean distance for (`hours.per.week`): 8.6

Hellinger Distance: 0.052

=====

	education	relationship	income	workclass	occupation	sex	race	marital.status	MAX(`hours.per.week`)	COUNT(*)
186	12th	Husband	>50K	Self-emp-not-inc	Craft-repair	Male	White	Married-civ-spouse	70	2
291	7th-8th	Husband	<=50K	Self-emp-not-inc	Farming-fishing	Male	White	Married-civ-spouse	80	33
399	Assoc-acdm	Husband	<=50K	Self-emp-inc	Prof-specialty	Male	White	Married-civ-spouse	70	1
646	Assoc-voc	Wife	>50K	Private	Other-service	Female	White	Married-civ-spouse	20	1
57	10th	Husband	>50K	State-gov	Exec-managerial	Male	White	Married-civ-spouse	40	1

	education	relationship	income	workclass	occupation	sex	race	marital.status	MAX(`hours.per.week`)	COUNT(*)
186	12th	Husband	>50K	Self-emp-not-inc	Craft-repair	Male	White	Married-civ-spouse	nan	nan
291	7th-8th	Husband	<=50K	Self-emp-not-inc	Farming-fishing	Male	White	Married-civ-spouse	40.063029	25.000000
399	Assoc-acdm	Husband	<=50K	Self-emp-inc	Prof-specialty	Male	White	Married-civ-spouse	39.952743	1.000000
646	Assoc-voc	Wife	>50K	Private	Other-service	Female	White	Married-civ-spouse	nan	nan
57	10th	Husband	>50K	State-gov	Exec-managerial	Male	White	Married-civ-spouse	nan	nan

SQL for Real:  
SELECT education,relationship,income,workclass,occupation,sex,race,`marital.status`,MAX(`hours.per.week`), COUNT(\*) FROM C1 WHERE (workclass = 'Self-emp-inc' AND `hours.per.week` < 40) OR (`marital.status` LIKE 'Married-civ-spouse' OR occupation LIKE 'Craft-repair') AND (education IN ('Bachelors', '10th', 'Masters', 'Preschool', 'Assoc-acdm', 'Doctorate', 'Prof-school', '11th', 'HS-grad', '7th-8th', 'Some-college', 'Assoc-voc', '12th', '1st-4th') AND income LIKE '>50K') OR (sex = 'Male' OR capital = 0) AND (race = 'White' AND relationship = 'Husband') GROUP BY education,relationship,income,workclass,occupation,sex,race,`marital.status`

Resulted in 1813 records

SQL for Synthetic:  
SELECT education,relationship,income,workclass,occupation,sex,race,`marital.status`,MAX(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE (workclass = 'Self-emp-inc' AND `hours.per.week` < 40) OR (`marital.status` LIKE 'Married-civ-spouse' OR occupation LIKE 'Craft-repair') AND (education IN ('Bachelors', '10th', 'Masters', 'Preschool', 'Assoc-acdm', 'Doctorate', 'Prof-school', '11th', 'HS-grad', '7th-8th', 'Some-college', 'Assoc-voc', '12th', '1st-4th') AND income LIKE '>50K') OR (sex = 'Male' OR capital = 0) AND (race = 'White' AND relationship = 'Husband') GROUP BY education,relationship,income,workclass,occupation,sex,race,`marital.status`

Resulted in 1624 records

Normalized Euclidean distance for (`hours.per.week`): 32.19

Hellinger Distance: 0.243

=====

Real						
	sex	workclass	native.country	income	relationship	COUNT(*)
75	Female	Local-gov	Vietnam	<=50K	Not-in-family	nan
145	Female	Private	Puerto-Rico	>50K	Not-in-family	nan
288	Male	Local-gov	United-States	<=50K	Husband	19820009.000000
245	Male	Federal-gov	Puerto-Rico	<=50K	Not-in-family	nan
381	Male	Self-emp-inc	?	>50K	Husband	99185.000000

Synthetic						
	sex	workclass	native.country	income	relationship	COUNT(*)
75	Female	Local-gov	Vietnam	<=50K	Not-in-family	198931.530547
145	Female	Private	Puerto-Rico	>50K	Not-in-family	704621.054045
288	Male	Local-gov	United-States	<=50K	Husband	7658754.049169
245	Male	Federal-gov	Puerto-Rico	<=50K	Not-in-family	694968.112070
381	Male	Self-emp-inc	?	>50K	Husband	336802.291206

SQL for Real:  
SELECT sex,workclass,`native.country`,income,relationship,SUM(fnlwgt), COUNT(\*) FROM C1 WHERE (workclass = 'Private' AND `native.country` LIKE 'United-States') AND (`hours.per.week` > 38 AND `marital.status` LIKE 'Never-married') AND (race <> 'White' AND education LIKE 'Some-college') OR (income IN ('<=50K', '>50K') OR fnlwgt = 143766) AND (occupation = 'Prof-specialty' AND capital <= 0) GROUP BY sex,workclass,`native.country`,income,relationship

Resulted in 420 records

SQL for Synthetic:  
SELECT sex,workclass,`native.country`,income,relationship,SUM(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (workclass = 'Private' AND `native.country` LIKE 'United-States') AND (`hours.per.week` > 38 AND `marital.status` LIKE 'Never-married') AND (race <> 'White' AND education LIKE 'Some-college') OR (income IN ('<=50K', '>50K') OR fnlwgt = 143766) AND (occupation = 'Prof-specialty' AND capital <= 0) GROUP BY sex,workclass,`native.country`,income,relationship

Resulted in 454 records

Normalized Euclidean distance for (fnlwgt): 12.73

Hellinger Distance: 0.205

=====

Real								
	race	occupation	workclass	education	native.country	relationship	income	sex
11067	White	Prof-specialty	Private	Prof-school	United-States	Unmarried	<=50K	Male
8211	White	Handlers-cleaners	Private	Assoc-acdm	Outlying-US(Guam-USVI-etc)	Husband	<=50K	Male
9563	White	Other-service	Private	Bachelors	United-States	Husband	>50K	Male
8415	White	Handlers-cleaners	Private	Some-college	Thailand	Own-child	<=50K	Male
5393	White	Craft-repair	Local-gov	HS-grad	United-States	Not-in-family	<=50K	Male

Synthetic								
	race	occupation	workclass	education	native.country	relationship	income	sex
11067	White	Prof-specialty	Private	Prof-school	United-States	Unmarried	<=50K	Male
8211	White	Handlers-cleaners	Private	Assoc-acdm	Outlying-US(Guam-USVI-etc)	Husband	<=50K	Male
9563	White	Other-service	Private	Bachelors	United-States	Husband	>50K	Male
8415	White	Handlers-cleaners	Private	Some-college	Thailand	Own-child	<=50K	Male
5393	White	Craft-repair	Local-gov	HS-grad	United-States	Not-in-family	<=50K	Male

SQL for Real:  
SELECT race,occupation,workclass,education,`native.country`,relationship,income,sex,AVG(age), COUNT(\*) FROM C1 WHERE (`native.country` LIKE 'United-States') OR (sex = 'Male' AND `hours.per.week` <= 40) OR (race LIKE 'White' OR age BETWEEN 56 AND 41) OR (relationship <> 'Not-in-family' OR occupation <> 'Craft-repair') OR (`marital.status` = 'Divorced' OR education = 'Assoc-voc') OR (income IN ('<=50K', '>50K') OR fnlwgt > 160431) GROUP BY race,occupation,workclass,education,`native.country`,relationship,income,sex

Resulted in 9992 records

SQL for Synthetic:  
SELECT race,occupation,workclass,education,`native.country`,relationship,income,sex,AVG(age), COUNT(\*) FROM C1\_syn\_06 WHERE (`native.country` LIKE 'United-States') OR (sex = 'Male' AND `hours.per.week` <= 40) OR (race LIKE 'White' OR age BETWEEN 56 AND 41) OR (relationship <> 'Not-in-family' OR occupation <> 'Craft-repair') OR (`marital.status` = 'Divorced' OR education = 'Assoc-voc') OR (income IN ('<=50K', '>50K') OR fnlwgt > 160431) GROUP BY race,occupation,workclass,education,`native.country`,relationship,income,sex

Resulted in 13906 records

Normalized Euclidean distance for (age): 60.46

Hellinger Distance: 0.257

=====

Real				
	race	education	native.country	MAX(age)
143	Asian-Pac-Islander	Prof-school	India	59.000000
247	Black	9th	United-States	81.000000
135	Asian-Pac-Islander	Masters	Philippines	59.000000
295	Black	Bachelors	Yugoslavia	nan
701	White	Bachelors	Nicaragua	46.000000

Synthetic

	race	education	native.country	MAX(age)	COUNT(*)
143	Asian-Pac-Islander	Prof-school	India	45	3
247	Black	9th	United-States	79	34
135	Asian-Pac-Islander	Masters	Philippines	44	2
295	Black	Bachelors	Yugoslavia	40	1
701	White	Bachelors	Nicaragua	22	6

SOL for Real:  
SELECT race,education,`native.country`,MAX(age), COUNT(\*) FROM C1 WHERE (sex <> 'Male') OR (race IN ('White', 'Black', 'Other', 'Asian-Pac-Islander') AND workclass IN ('Private', 'State-gov', 'Self-emp-inc', 'Federal-gov')) OR (fnlwgt >= 201292 OR `hours.per.week` BETWEEN 40 AND 48) AND (age <= 31 AND education = '11th') AND (income = '>50K' AND capital = 0) GROUP BY race,education,`native.country`  
Resulted in 736 records

SOL for Synthetic:  
SELECT race,education,`native.country`,MAX(age), COUNT(\*) FROM C1\_syn\_06 WHERE (sex <> 'Male') OR (race IN ('White', 'Black', 'Other', 'Asian-Pac-Islander') AND workclass IN ('Private', 'State-gov', 'Self-emp-inc', 'Federal-gov')) OR (fnlwgt >= 201292 OR `hours.per.week` BETWEEN 40 AND 48) AND (age <= 31 AND education = '11th') AND (income = '>50K' AND capital = 0) GROUP BY race,education,`native.country`  
Resulted in 859 records

Normalized Euclidean distance for (age): 20.83

Hellinger Distance: 0.383

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Real

	occupation	marital.status	native.country	workclass	race	sex	education	income	AVG(capital)	COUNT(*)
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Synthetic

	occupation	marital.status	native.country	workclass	race	sex	education	income	AVG(capital)	COUNT(*)
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SOL for Real:  
SELECT occupation,`marital.status`,`native.country`,workclass,race,sex,education,income,AVG(capital), COUNT(\*) FROM C1 WHERE (`hours.per.week` < 60 OR age BETWEEN 17 AND 35) AND ((fnlwgt BETWEEN 184176 AND 129513) AND workclass IN ('Self-emp-inc', '?', 'State-gov', 'Private')) AND (race IN ('Other', 'Black') AND relationship <> 'Husband') AND (occupation IN ('Other-service', 'Machine-op-inspct', 'Priv-house-serv', 'Protective-serv', 'Craft-repair', 'Adm-clerical', 'Handlers-cleaners', 'Transport-moving') AND `native.country` LIKE 'United-States') AND (income LIKE '<=50K' AND sex IN ('Male', 'Female')) GROUP BY occupation,`marital.status`,`native.country`,workclass,race,sex,education,income  
Resulted in 0 records

SOL for Synthetic:  
SELECT occupation,`marital.status`,`native.country`,workclass,race,sex,education,income,AVG(capital), COUNT(\*) FROM C1\_syn\_06 WHERE (`hours.per.week` < 60 OR age BETWEEN 17 AND 35) AND ((fnlwgt BETWEEN 184176 AND 129513) AND workclass IN ('Self-emp-inc', '?', 'State-gov', 'Private')) AND (race IN ('Other', 'Black') AND relationship <> 'Husband') AND (occupation IN ('Other-service', 'Machine-op-inspct', 'Priv-house-serv', 'Protective-serv', 'Craft-repair', 'Adm-clerical', 'Handlers-cleaners', 'Transport-moving') AND `native.country` LIKE 'United-States') AND (income LIKE '<=50K' AND sex IN ('Male', 'Female')) GROUP BY occupation,`marital.status`,`native.country`,workclass,race,sex,education,income  
Resulted in 0 records

Normalized Euclidean distance for (capital): nan

Hellinger Distance: nan

=====

		Real		
	marital.status	occupation	SUM(capital)	COUNT(*)
26	Married-civ-spouse	Other-service	324186.000000	174.000000
83	Widowed	Priv-house-serv	25236.000000	1.000000
37	Married-spouse-absent	Farming-fishing	34426.000000	3.000000
67	Separated	Machine-op-inspct	6356.000000	2.000000
33	Married-spouse-absent	?	0.000000	1.000000

Synthetic

	marital.status	occupation	SUM(capital)	COUNT(*)
26	Married-civ-spouse	Other-service	11189.046326	221
83	Widowed	Priv-house-serv	-12.830576	1
37	Married-spouse-absent	Farming-fishing	440.615619	7
67	Separated	Machine-op-inspct	-110.996995	4
33	Married-spouse-absent	?	854.122179	13

SOL for Real:  
SELECT `marital.status`,occupation,SUM(capital), COUNT(\*) FROM C1 WHERE (workclass <> 'Private' AND capital > 0) OR (fnlwgt = 88781 OR age BETWEEN 20 AND 23) AND (education LIKE 'Masters' AND sex = 'Female') AND (`hours.per.week` = 40 AND `native.country` = 'United-States') OR (`marital.status` LIKE 'Never-married' OR income LIKE '>50K') GROUP BY `marital.status`,occupation  
Resulted in 88 records

SOL for Synthetic:  
SELECT `marital.status`,occupation,SUM(capital), COUNT(\*) FROM C1\_syn\_06 WHERE (workclass <> 'Private' AND capital > 0) OR (fnlwgt = 88781 OR age BETWEEN 20 AND 23) AND (education LIKE 'Masters' AND sex = 'Female') AND (`hours.per.week` = 40 AND `native.country` = 'United-States') OR (`marital.status` LIKE 'Never-married' OR income LIKE '>50K') GROUP BY `marital.status`,occupation  
Resulted in 89 records

Normalized Euclidean distance for (capital): 9.11

Hellinger Distance: 0.105

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		Real		
	education	income	MIN(capital)	COUNT(*)
28	Prof-school	<=50K	-2339	216
30	Some-college	<=50K	-4356	8249
8	5th-6th	<=50K	-2603	462
18	Bachelors	<=50K	-3770	4580
15	Assoc-acdm	>50K	-2824	391

		Synthetic		
	education	income	MIN(capital)	COUNT(*)
28	Prof-school	<=50K	-313.886797	566.000000
30	Some-college	<=50K	-391.476155	8639.000000
8	5th-6th	<=50K	-316.679482	288.000000
18	Bachelors	<=50K	-370.806040	6560.000000
15	Assoc-acdm	>50K	-244.110975	175.000000

SQL for Real:  
SELECT education,income,MIN(capital), COUNT(\*) FROM C1 WHERE (age > 45) AND (`native.country` <> 'United-States' OR `marital.status` IN ('Married-spouse-absent', 'Separated', 'Divorced', 'Married-civ-spouse', 'Widowed', 'Married-AF-spouse')) AND ((`hours.per.week` BETWEEN 40 AND 40) AND relationship = 'Husband') OR (occupation <> 'Craft-repair' OR fnlwgt >= 216858) GROUP BY education,income

Resulted in 32 records

SQL for Synthetic:  
SELECT education,income,MIN(capital), COUNT(\*) FROM C1\_syn\_06 WHERE (age > 45) AND (`native.country` <> 'United-States' OR `marital.status` IN ('Married-spouse-absent', 'Separated', 'Divorced', 'Married-civ-spouse', 'Widowed', 'Married-AF-spouse')) AND ((`hours.per.week` BETWEEN 40 AND 40) AND relationship = 'Husband') OR (occupation <> 'Craft-repair' OR fnlwgt >= 216858) GROUP BY education,income

Resulted in 31 records

Normalized Euclidean distance for (capital): 5.57

Hellinger Distance: 0.153

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						Real						
	education	income	workclass	sex	occupation	race	relationship	native.country	marital.status	MAX(capital)	COUNT(*)	
8163	HS-grad	<=50K	Local-gov	Male	Craft-repair	White	Husband	United-States	Married-civ-spouse	5013.000000	48.000000	
8883	HS-grad	<=50K	Private	Female	Other-service	Amer-Indian-Eskimo	Unmarried	Puerto-Rico	Married-civ-spouse	nan	nan	
9257	HS-grad	<=50K	Private	Female	Sales	White	Not-in-family	Puerto-Rico	Married-spouse-absent	nan	nan	
4848	Assoc-voc	>50K	Private	Female	Prof-specialty	White	Husband	Columbia	Married-civ-spouse	nan	nan	
10287	HS-grad	<=50K	Private	Male	Sales	White	Not-in-family	Holand-Netherlands	Never-married	nan	nan	

						Synthetic						
	education	income	workclass	sex	occupation	race	relationship	native.country	marital.status	MAX(capital)	COUNT(*)	
8163	HS-grad	<=50K	Local-gov	Male	Craft-repair	White	Husband	United-States	Married-civ-spouse	174.915746	27	
8883	HS-grad	<=50K	Private	Female	Other-service	Amer-Indian-Eskimo	Unmarried	Puerto-Rico	Married-civ-spouse	-84.613600	1	
9257	HS-grad	<=50K	Private	Female	Sales	White	Not-in-family	Puerto-Rico	Married-spouse-absent	46.518664	2	
4848	Assoc-voc	>50K	Private	Female	Prof-specialty	White	Husband	Columbia	Married-civ-spouse	-31.772576	1	
10287	HS-grad	<=50K	Private	Male	Sales	White	Not-in-family	Holand-Netherlands	Never-married	-101.943232	1	

SQL for Real:  
SELECT education,income,workclass,sex,occupation,race,relationship,`native.country`,`marital.status`,MAX(capital), COUNT(\*) FROM C1 WHERE (workclass <> 'Private') AND (age <= 49 OR `hours.per.week` BETWEEN 75 AND 40) AND ((fnlwgt BETWEEN 422013 AND 194537) AND sex <> 'Female') OR (`native.country` IN ('?', 'Vietnam', 'Portugal', 'Cambodia', 'Italy', 'Hong', 'France', 'Peru', 'South', 'Thailand', 'Laos', 'Outlying-US(Guam-USVI-etc)', 'Ecuador', 'Honduras', 'Jamaica', 'Columbia', 'Japan', 'Cuba', 'Puerto-Rico', 'Mexico', 'Hungary', 'Trinidad&Tobago', 'United-States', 'Taiwan', 'Philippines', 'Nicaragua', 'Holand-Netherlands', 'Scotland') OR education = '10th') GROUP BY education,income,workclass,sex,occupation,race,relationship,`native.country`,`marital.status`

Resulted in 11409 records

SQL for Synthetic:  
SELECT education,income,workclass,sex,occupation,race,relationship,`native.country`,`marital.status`,MAX(capital), COUNT(\*) FROM C1\_syn\_06 WHERE (workclass <> 'Private') AND (age <= 49 OR `hours.per.week` BETWEEN 75 AND 40) AND ((fnlwgt BETWEEN 422013 AND 194537) AND sex <> 'Female') OR (`native.country` IN ('?', 'Vietnam', 'Portugal', 'Cambodia', 'Italy', 'Hong', 'France', 'Peru', 'South', 'Thailand', 'Laos', 'Outlying-US(Guam-USVI-etc)', 'Ecuador', 'Honduras', 'Jamaica', 'Columbia', 'Japan', 'Cuba', 'Puerto-Rico', 'Mexico', 'Hungary', 'Trinidad&Tobago', 'United-States', 'Taiwan', 'Philippines', 'Nicaragua', 'Holand-Netherlands', 'Scotland') OR education = '10th') GROUP BY education,income,workclass,sex,occupation,race,relationship,`native.country`,`marital.status`

Resulted in 15947 records

Normalized Euclidean distance for (capital): 63.98

Hellinger Distance: 0.252

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						Real						
	workclass	race	relationship	sex	native.country	occupation	SUM(fnlwgt)	COUNT(*)				
1066	Self-emp-not-inc	White	Own-child	Male	Puerto-Rico	Sales	nan	nan				
1022	Self-emp-not-inc	White	Own-child	Female	Puerto-Rico	Farming-fishing	nan	nan				
57	Local-gov	Black	Husband	Male	Scotland	Transport-moving	nan	nan				
129	Local-gov	Black	Other-relative	Male	United-States	Handlers-cleaners	661358.000000	2.000000				
736	Self-emp-not-inc	Black	Husband	Male	Puerto-Rico	Transport-moving	nan	nan				

						Synthetic						
	workclass	race	relationship	sex	native.country	occupation	SUM(fnlwgt)	COUNT(*)				
1066	Self-emp-not-inc	White	Own-child	Male	Puerto-Rico	Sales	692268.079644	4				
1022	Self-emp-not-inc	White	Own-child	Female	Puerto-Rico	Farming-fishing	676299.984980	4				
57	Local-gov	Black	Husband	Male	Scotland	Transport-moving	368579.302095	2				
129	Local-gov	Black	Other-relative	Male	United-States	Handlers-cleaners	185753.004498	1				
736	Self-emp-not-inc	Black	Husband	Male	Puerto-Rico	Transport-moving	175736.887313	1				



SQL for Real:  
SELECT workclass,race,relationship,sex,`native.country`,occupation,SUM(fnlwgt), COUNT(\*) FROM C1 WHERE (workclass IN ('Self-emp-not-inc', 'Local-gov')) AND (race IN ('Black', 'Asian-Pac-Islander', 'White') OR age < 21) AND (income LIKE '<=50K' AND relationship IN ('Other-relative', 'Unmarried', 'Own-child', 'Husband', 'Not-in-family', 'Wife')) OR (capital = 0 OR `marital.status` IN ('Married-AF-spouse', 'Never-married', 'Married-civ-spouse', 'Separated', 'Divorced', 'Married-spouse-absent', 'Widowed')) AND (occupation = 'Prof-specialty' AND fnlwgt = 211695) AND (`hours.per.week` = 40 AND education <> 'HS-grad') GROUP BY workclass,race,relationship,sex,`native.country`,occupation  
Resulted in 623 records

SQL for Synthetic:  
SELECT workclass,race,relationship,sex,`native.country`,occupation,SUM(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (workclass IN ('Self-emp-not-inc', 'Local-gov')) AND (race IN ('Black', 'Asian-Pac-Islander', 'White') OR age < 21) AND (income LIKE '<=50K' AND relationship IN ('Other-relative', 'Unmarried', 'Own-child', 'Husband', 'Not-in-family', 'Wife')) OR (capital = 0 OR `marital.status` IN ('Married-AF-spouse', 'Never-married', 'Married-civ-spouse', 'Separated', 'Divorced', 'Married-spouse-absent', 'Widowed')) AND (occupation = 'Prof-specialty' AND fnlwgt = 211695) AND (`hours.per.week` = 40 AND education <> 'HS-grad') GROUP BY workclass,race,relationship,sex,`native.country`,occupation  
Resulted in 1177 records

Normalized Euclidean distance for (fnlwgt): 17.83

Hellinger Distance: 0.214

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Real											
	workclass	race	income	marital.status	education	occupation	relationship	sex	native.country	MIN(`hours.per.week`)	COUNT(*)
13570	Self-emp-not-inc	White	<=50K	Married-civ-spouse	Bachelors	Exec-managerial	Husband	Male	Mexico	nan	nan
1549	Federal-gov	White	<=50K	Separated	Some-college	Adm-clerical	Not-in-family	Female	United-States	nan	nan
4175	Private	Black	<=50K	Married-civ-spouse	9th	Machine-op-inspct	Wife	Female	Hungary	nan	nan
3786	Private	Asian-Pac-Islander	<=50K	Widowed	Assoc-voc	Exec-managerial	Unmarried	Female	United-States	nan	nan
7495	Private	White	<=50K	Married-civ-spouse	Bachelors	Prof-specialty	Not-in-family	Male	United-States	60.000000	1.000000
Synthetic											
	workclass	race	income	marital.status	education	occupation	relationship	sex	native.country	MIN(`hours.per.week`)	COUNT(*)
13570	Self-emp-not-inc	White	<=50K	Married-civ-spouse	Bachelors	Exec-managerial	Husband	Male	Mexico	40.366009	1
1549	Federal-gov	White	<=50K	Separated	Some-college	Adm-clerical	Not-in-family	Female	United-States	40.012611	1
4175	Private	Black	<=50K	Married-civ-spouse	9th	Machine-op-inspct	Wife	Female	Hungary	39.998754	1
3786	Private	Asian-Pac-Islander	<=50K	Widowed	Assoc-voc	Exec-managerial	Unmarried	Female	United-States	39.956478	1
7495	Private	White	<=50K	Married-civ-spouse	Bachelors	Prof-specialty	Not-in-family	Male	United-States	40.180498	1

SQL for Real:  
SELECT workclass,race,income,`marital.status`,education,occupation,relationship,sex,`native.country`,MIN(`hours.per.week`), COUNT(\*) FROM C1 WHERE (income = '<=50K') AND (`hours.per.week` > 40 AND age = 38) OR (`marital.status` = 'Married-civ-spouse' OR fnlwgt > 247515) OR (sex = 'Male' OR education <> 'HS-grad') OR (occupation = 'Transport-moving' OR capital BETWEEN 0 AND 0) GROUP BY workclass,race,income,`marital.status`,education,occupation,relationship,sex,`native.country`  
Resulted in 12632 records

SQL for Synthetic:  
SELECT workclass,race,income,`marital.status`,education,occupation,relationship,sex,`native.country`,MIN(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE (income = '<=50K') AND (`hours.per.week` > 40 AND age = 38) OR (`marital.status` = 'Married-civ-spouse' OR fnlwgt > 247515) OR (sex = 'Male' OR education <> 'HS-grad') OR (occupation = 'Transport-moving' OR capital BETWEEN 0 AND 0) GROUP BY workclass,race,income,`marital.status`,education,occupation,relationship,sex,`native.country`  
Resulted in 15508 records

Normalized Euclidean distance for (`hours.per.week`): 61.82

Hellinger Distance: 0.269

=====

Real						
	education	relationship	income	workclass	MIN(`hours.per.week`)	COUNT(*)
544	HS-grad	Own-child	>50K	Local-gov	40	1
287	Assoc-acdm	Own-child	<=50K	Federal-gov	40	2
47	11th	Husband	<=50K	Private	15	317
756	Some-college	Unmarried	<=50K	?	4	49
764	Some-college	Unmarried	>50K	Federal-gov	40	2
Synthetic						
	education	relationship	income	workclass	MIN(`hours.per.week`)	COUNT(*)
544	HS-grad	Own-child	>50K	Local-gov	nan	nan
287	Assoc-acdm	Own-child	<=50K	Federal-gov	39.554523	2.000000
47	11th	Husband	<=50K	Private	39.199172	331.000000
756	Some-college	Unmarried	<=50K	?	39.005285	62.000000
764	Some-college	Unmarried	>50K	Federal-gov	nan	nan

SQL for Real:  
SELECT education,relationship,income,workclass,MIN(`hours.per.week`), COUNT(\*) FROM C1 WHERE (sex = 'Female') OR (occupation <> 'Craft-repair' OR relationship IN ('Husband', 'Wife', 'Other-relative', 'Not-in-family', 'Own-child')) AND (workclass <> 'Private' AND capital < 0) AND (age < 42 AND fnlwgt <> 231482) AND (`hours.per.week` <= 20 AND race <> 'White') OR (education LIKE 'Bachelors' OR `marital.status` LIKE 'Married-civ-spouse') GROUP BY education,relationship,income,workclass  
Resulted in 782 records

SQL for Synthetic:  
SELECT education,relationship,income,workclass,MIN(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE (sex = 'Female') OR (occupation <> 'Craft-repair' OR relationship IN ('Husband', 'Wife', 'Other-relative', 'Not-in-family', 'Unmarried', 'Own-child')) AND (workclass <> 'Private' AND capital < 0) AND (age < 42 AND fnlwgt <>

231482) AND (`hours.per.week` <= 20 AND race <> 'White') OR (education LIKE 'Bachelors' OR `marital.status` LIKE 'Married-civ-spouse') GROUP BY education,relationship,income,workclass

Resulted in 725 records

Normalized Euclidean distance for (`hours.per.week`): 25.38

Hellinger Distance: 0.183

=====

Real											
education	sex	workclass	relationship	native.country	race	marital.status	occupation	income	AVG(`hours.per.week`)	COUNT(*)	
96	Doctorate	Male	Private	Husband	Puerto-Rico	Asian-Pac-Islander	Married-civ-spouse	Craft-repair	<=50K	nan	nan
62	Bachelors	Male	Private	Husband	Puerto-Rico	Asian-Pac-Islander	Married-civ-spouse	Adm-clerical	>50K	nan	nan
87	Bachelors	Male	Self-emp-not-inc	Husband	Puerto-Rico	Asian-Pac-Islander	Married-civ-spouse	Exec-managerial	<=50K	nan	nan
69	Bachelors	Male	Private	Husband	Puerto-Rico	Asian-Pac-Islander	Married-civ-spouse	Prof-specialty	<=50K	nan	nan
39	Bachelors	Female	Private	Not-in-family	Puerto-Rico	Asian-Pac-Islander	Married-spouse-absent	Sales	<=50K	nan	nan
Synthetic											
education	sex	workclass	relationship	native.country	race	marital.status	occupation	income	AVG(`hours.per.week`)	COUNT(*)	
96	Doctorate	Male	Private	Husband	Puerto-Rico	Asian-Pac-Islander	Married-civ-spouse	Craft-repair	<=50K	40.053984	1
62	Bachelors	Male	Private	Husband	Puerto-Rico	Asian-Pac-Islander	Married-civ-spouse	Adm-clerical	>50K	39.971058	1
87	Bachelors	Male	Self-emp-not-inc	Husband	Puerto-Rico	Asian-Pac-Islander	Married-civ-spouse	Exec-managerial	<=50K	40.359326	1
69	Bachelors	Male	Private	Husband	Puerto-Rico	Asian-Pac-Islander	Married-civ-spouse	Prof-specialty	<=50K	39.965902	1
39	Bachelors	Female	Private	Not-in-family	Puerto-Rico	Asian-Pac-Islander	Married-spouse-absent	Sales	<=50K	40.018025	1

SQL for Real:  
SELECT education,sex,workclass,relationship,`native.country`,race,`marital.status`,occupation,income,AVG(`hours.per.week`), COUNT(\*) FROM C1 WHERE (race IN ('Asian-Pac-Islander', 'Amer-Indian-Eskimo') AND `hours.per.week` <= 50) AND (income IN ('<=50K', '>50K') AND `native.country` = 'Puerto-Rico') GROUP BY education,sex,workclass,relationship,`native.country`,race,`marital.status`,occupation,income

Resulted in 1 records

SQL for Synthetic:  
SELECT education,sex,workclass,relationship,`native.country`,race,`marital.status`,occupation,income,AVG(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE (race IN ('Asian-Pac-Islander', 'Amer-Indian-Eskimo') AND `hours.per.week` <= 50) AND (income IN ('<=50K', '>50K') AND `native.country` = 'Puerto-Rico') GROUP BY education,sex,workclass,relationship,`native.country`,race,`marital.status`,occupation,income

Resulted in 208 records

Normalized Euclidean distance for (`hours.per.week`): nan

Hellinger Distance: nan

=====

Real											
income	marital.status	race	sex	education	workclass	relationship	occupation	AVG(`hours.per.week`)	COUNT(*)		
28	<=50K	Divorced	Amer-Indian-Eskimo	Male	HS-grad	Local-gov	Not-in-family	Transport-moving	40.000000	1	
2366	<=50K	Never-married	White	Female	Assoc-voc	?	Own-child	?	37.333333	3	
1285	<=50K	Married-civ-spouse	White	Male	11th	Self-emp-not-inc	Husband	Other-service	46.666667	3	
2511	<=50K	Never-married	White	Female	HS-grad	State-gov	Unmarried	Adm-clerical	40.000000	1	
2046	<=50K	Never-married	Black	Female	HS-grad	Federal-gov	Own-child	Craft-repair	40.000000	1	
Synthetic											
income	marital.status	race	sex	education	workclass	relationship	occupation	AVG(`hours.per.week`)	COUNT(*)		
28	<=50K	Divorced	Amer-Indian-Eskimo	Male	HS-grad	Local-gov	Not-in-family	Transport-moving	nan	nan	
2366	<=50K	Never-married	White	Female	Assoc-voc	?	Own-child	?	40.012631	3.000000	
1285	<=50K	Married-civ-spouse	White	Male	11th	Self-emp-not-inc	Husband	Other-service	39.613293	2.000000	
2511	<=50K	Never-married	White	Female	HS-grad	State-gov	Unmarried	Adm-clerical	39.981678	3.000000	
2046	<=50K	Never-married	Black	Female	HS-grad	Federal-gov	Own-child	Craft-repair	nan	nan	

SQL for Real:  
SELECT income,`marital.status`,race,sex,education,workclass,relationship,occupation,AVG(`hours.per.week`), COUNT(\*) FROM C1 WHERE (workclass <> 'Private') GROUP BY income,`marital.status`,race,sex,education,workclass,relationship,occupation

Resulted in 4796 records

SQL for Synthetic:  
SELECT income,`marital.status`,race,sex,education,workclass,relationship,occupation,AVG(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE (workclass <> 'Private') GROUP BY income,`marital.status`,race,sex,education,workclass,relationship,occupation

Resulted in 4581 records

Normalized Euclidean distance for (`hours.per.week`): 46.25

Hellinger Distance: 0.229

=====

Real

	sex	relationship	race	occupation	native.country	MAX(fnlwgt)	COUNT(*)
2957	Male	Own-child	Black	Craft-repair	Hungary	nan	nan
731	Female	Own-child	Black	Handlers-cleaners	United-States	427541.000000	12.000000
2623	Male	Not-in-family	White	Other-service	Thailand	nan	nan
2999	Male	Own-child	Black	Protective-serv	Hungary	nan	nan
856	Female	Own-child	White	Armed-Forces	United-States	nan	nan

Synthetic

	sex	relationship	race	occupation	native.country	MAX(fnlwgt)	COUNT(*)
2957	Male	Own-child	Black	Craft-repair	Hungary	180580.328757	1
731	Female	Own-child	Black	Handlers-cleaners	United-States	1367980.872487	13
2623	Male	Not-in-family	White	Other-service	Thailand	178325.603589	2
2999	Male	Own-child	Black	Protective-serv	Hungary	181751.586615	1
856	Female	Own-child	White	Armed-Forces	United-States	197247.474259	6

SQL for Real:

SELECT sex,relationship,race,occupation,`native.country`,MAX(fnlwgt), COUNT(\*) FROM C1 WHERE (occupation <> 'Craft-repair') OR (`hours.per.week` < 40 OR fnlwgt >= 164526) AND (sex = 'Male' AND relationship <> 'Own-child') OR (`marital.status` IN ('Separated', 'Divorced', 'Married-AF-spouse', 'Married-civ-spouse', 'Married-spouse-absent', 'Never-married') OR capital > 0) GROUP BY sex,relationship,race,occupation,`native.country`

Resulted in 2564 records

SQL for Synthetic:

SELECT sex,relationship,race,occupation,`native.country`,MAX(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (occupation <> 'Craft-repair') OR (`hours.per.week` < 40 OR fnlwgt >= 164526) AND (sex = 'Male' AND relationship <> 'Own-child') OR (`marital.status` IN ('Separated', 'Divorced', 'Married-AF-spouse', 'Married-civ-spouse', 'Married-spouse-absent', 'Never-married') OR capital > 0) GROUP BY sex,relationship,race,occupation,`native.country`

Resulted in 3455 records

Normalized Euclidean distance for (fnlwgt): 34.53

Hellinger Distance: 0.345

=====

Real

	workclass	marital.status	sex	income	native.country	education	relationship	occupation	MAX(fnlwgt)	COUNT(*)
9700	Private	Separated	Male	<=50K	Puerto-Rico	HS-grad	Own-child	Sales	nan	nan
12161	Self-emp-not-inc	Never-married	Male	<=50K	Puerto-Rico	Some-college	Own-child	Other-service	nan	nan
8695	Private	Never-married	Male	<=50K	Puerto-Rico	Masters	Not-in-family	Prof-specialty	nan	nan
460	?	Never-married	Female	<=50K	United-States	Assoc-acdm	Own-child	?	242736.000000	7.000000
13310	State-gov	Never-married	Male	<=50K	United-States	Some-college	Own-child	Sales	nan	nan

Synthetic

	workclass	marital.status	sex	income	native.country	education	relationship	occupation	MAX(fnlwgt)	COUNT(*)
9700	Private	Separated	Male	<=50K	Puerto-Rico	HS-grad	Own-child	Sales	177005.043649	1
12161	Self-emp-not-inc	Never-married	Male	<=50K	Puerto-Rico	Some-college	Own-child	Other-service	169028.998155	1
8695	Private	Never-married	Male	<=50K	Puerto-Rico	Masters	Not-in-family	Prof-specialty	177079.533338	12
460	?	Never-married	Female	<=50K	United-States	Assoc-acdm	Own-child	?	196119.959717	11
13310	State-gov	Never-married	Male	<=50K	United-States	Some-college	Own-child	Sales	150659.388183	1

SQL for Real:

SELECT workclass,`marital.status`,sex,income,`native.country`,education,relationship,occupation,MAX(fnlwgt), COUNT(\*) FROM C1 WHERE (`native.country` IN ('Trinidad&Tobago', 'Columbia', 'France', 'Yugoslavia', 'Vietnam', 'Guatemala', 'Greece', 'Outlying-US(Guam-USVI-etc)', 'Iran', 'Germany', 'Puerto-Rico', 'England', 'Japan', 'Cambodia', 'Canada', 'India', 'Hong', 'Laos', 'Portugal', 'Hungary', 'Nicaragua', 'Ireland', 'Jamaica', 'Mexico', 'Honduras', 'Peru', 'Poland', '?', 'United-States', 'El-Salvador')) GROUP BY workclass,`marital.status`,sex,income,`native.country`,education,relationship,occupation

Resulted in 9427 records

SQL for Synthetic:

SELECT workclass,`marital.status`,sex,income,`native.country`,education,relationship,occupation,MAX(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (`native.country` IN ('Trinidad&Tobago', 'Columbia', 'France', 'Yugoslavia', 'Vietnam', 'Guatemala', 'Greece', 'Outlying-US(Guam-USVI-etc)', 'Iran', 'Germany', 'Puerto-Rico', 'England', 'Japan', 'Cambodia', 'Canada', 'India', 'Hong', 'Laos', 'Portugal', 'Hungary', 'Nicaragua', 'Ireland', 'Jamaica', 'Mexico', 'Honduras', 'Peru', 'Poland', '?', 'United-States', 'El-Salvador')) GROUP BY workclass,`marital.status`,sex,income,`native.country`,education,relationship,occupation

Resulted in 13412 records

Normalized Euclidean distance for (fnlwgt): 61.92

Hellinger Distance: 0.26

=====

Real

	relationship	native.country	education	occupation	workclass	MIN(age)	COUNT(*)
6656	Unmarried	China	Some-college	Tech-support	Private	nan	nan
1282	Husband	Peru	Masters	Craft-repair	Federal-gov	nan	nan
5211	Own-child	?	11th	Protective-serv	Private	nan	nan
7410	Unmarried	United-States	10th	Transport-moving	Private	28.000000	9.000000
5497	Own-child	Hungary	11th	Prof-specialty	Private	nan	nan

Synthetic

	relationship	native.country	education	occupation	workclass	MIN(age)	COUNT(*)
6656	Unmarried	China	Some-college	Tech-support	Private	28	1
1282	Husband	Peru	Masters	Craft-repair	Federal-gov	39	1
5211	Own-child	?	11th	Protective-serv	Private	48	1
7410	Unmarried	United-States	10th	Transport-moving	Private	30	4
5497	Own-child	Hungary	11th	Prof-specialty	Private	28	1

SQL for Real:

SELECT relationship,`native.country`,education,occupation,workclass,MIN(age), COUNT(\*) FROM C1 WHERE (race = 'White' AND income = '<=50K') OR (`native.country`

IN ('El-Salvador', '?', 'Puerto-Rico', 'Columbia', 'Haiti') OR sex = 'Male') GROUP BY relationship, `native.country`, education, occupation, workclass

Resulted in 5291 records

SQL for Synthetic:

SELECT relationship, `native.country`, education, occupation, workclass, MIN(age), COUNT(\*) FROM C1\_syn\_06 WHERE (race = 'White' AND income = '<=50K') OR ('native.country' IN ('El-Salvador', '?', 'Puerto-Rico', 'Columbia', 'Haiti') OR sex = 'Male') GROUP BY relationship, `native.country`, education, occupation, workclass

Resulted in 8429 records

Normalized Euclidean distance for (age): 49.11

Hellinger Distance: 0.263

=====

Real								
	workclass	occupation	relationship	education	native.country	marital.status	income	AVG(age) COUNT(*)
2825	Self-emp-not-inc	Craft-repair	Husband	Doctorate	Puerto-Rico	Married-civ-spouse	<=50K	nan nan
3031	Self-emp-not-inc	Exec-managerial	Husband	Bachelors	Puerto-Rico	Married-civ-spouse	>50K	37.000000 1.000000
3460	Self-emp-not-inc	Other-service	Not-in-family	HS-grad	Puerto-Rico	Never-married	<=50K	nan nan
2765	Self-emp-not-inc	Adm-clerical	Unmarried	11th	Puerto-Rico	Divorced	<=50K	nan nan
112	?	?	Husband	Some-college	Laos	Married-civ-spouse	>50K	nan nan

Synthetic								
	workclass	occupation	relationship	education	native.country	marital.status	income	AVG(age) COUNT(*)
2825	Self-emp-not-inc	Craft-repair	Husband	Doctorate	Puerto-Rico	Married-civ-spouse	<=50K	42.000000 1
3031	Self-emp-not-inc	Exec-managerial	Husband	Bachelors	Puerto-Rico	Married-civ-spouse	>50K	45.625000 8
3460	Self-emp-not-inc	Other-service	Not-in-family	HS-grad	Puerto-Rico	Never-married	<=50K	39.000000 5
2765	Self-emp-not-inc	Adm-clerical	Unmarried	11th	Puerto-Rico	Divorced	<=50K	49.000000 1
112	?	?	Husband	Some-college	Laos	Married-civ-spouse	>50K	31.000000 1

SQL for Real:

SELECT workclass, occupation, relationship, education, `native.country`, `marital.status`, income, AVG(age), COUNT(\*) FROM C1 WHERE (`hours.per.week` = 40 AND `native.country` LIKE 'Mexico') AND (age = 61 AND income LIKE '<=50K') OR (relationship LIKE 'Husband' OR workclass LIKE 'Self-emp-not-inc') GROUP BY workclass, occupation, relationship, education, `native.country`, `marital.status`, income

Resulted in 3088 records

SQL for Synthetic:

SELECT workclass, occupation, relationship, education, `native.country`, `marital.status`, income, AVG(age), COUNT(\*) FROM C1\_syn\_06 WHERE (`hours.per.week` = 40 AND `native.country` LIKE 'Mexico') AND (age = 61 AND income LIKE '<=50K') OR (relationship LIKE 'Husband' OR workclass LIKE 'Self-emp-not-inc') GROUP BY workclass, occupation, relationship, education, `native.country`, `marital.status`, income

Resulted in 4314 records

Normalized Euclidean distance for (age): 35.19

Hellinger Distance: 0.324

=====

Real								
	occupation	race	marital.status	relationship	income	workclass	native.country	sex AVG(age) COUNT(*)
316	Protective-serv	Black	Never-married	Not-in-family	>50K	Private	United-States	Male 36.000000 1
148	Farming-fishing	White	Married-AF-spouse	Husband	>50K	Private	United-States	Male 29.000000 1
54	Craft-repair	Other	Married-civ-spouse	Husband	>50K	Private	United-States	Male 43.666667 3
217	Other-service	White	Divorced	Not-in-family	>50K	Private	?	Male 45.000000 1
156	Handlers-cleaners	Asian-Pac-Islander	Married-civ-spouse	Husband	>50K	Private	Philippines	Male 62.000000 2

Synthetic								
	occupation	race	marital.status	relationship	income	workclass	native.country	sex AVG(age) COUNT(*)
316	Protective-serv	Black	Never-married	Not-in-family	>50K	Private	United-States	Male nan nan
148	Farming-fishing	White	Married-AF-spouse	Husband	>50K	Private	United-States	Male nan nan
54	Craft-repair	Other	Married-civ-spouse	Husband	>50K	Private	United-States	Male nan nan
217	Other-service	White	Divorced	Not-in-family	>50K	Private	?	Male nan nan
156	Handlers-cleaners	Asian-Pac-Islander	Married-civ-spouse	Husband	>50K	Private	Philippines	Male nan nan

SQL for Real:

SELECT occupation, race, `marital.status`, relationship, income, workclass, `native.country`, sex, AVG(age), COUNT(\*) FROM C1 WHERE (income = '>50K' AND workclass = 'Private') AND (relationship <> 'Own-child' AND sex LIKE 'Male') GROUP BY occupation, race, `marital.status`, relationship, income, workclass, `native.country`, sex

Resulted in 416 records

SQL for Synthetic:

SELECT occupation, race, `marital.status`, relationship, income, workclass, `native.country`, sex, AVG(age), COUNT(\*) FROM C1\_syn\_06 WHERE (income = '>50K' AND workclass = 'Private') AND (relationship <> 'Own-child' AND sex LIKE 'Male') GROUP BY occupation, race, `marital.status`, relationship, income, workclass, `native.country`, sex

Resulted in 296 records

Normalized Euclidean distance for (age): 10.3

Hellinger Distance: 0.244

=====

Real				
	workclass	marital.status	relationship	SUM(capital) COUNT(*)
146	Self-emp-not-inc	Married-spouse-absent	Other-relative	-1564.000000 1.000000
15	?	Married-spouse-absent	Unmarried	0.000000 12.000000
121	Self-emp-inc	Married-civ-spouse	Wife	-12625.000000 58.000000
143	Self-emp-not-inc	Married-civ-spouse	Wife	-27781.000000 169.000000
32	Federal-gov	Divorced	Own-child	0.000000 8.000000

Synthetic					
workclass	marital.status	relationship	SUM(capital)	COUNT(*)	
146	Self-emp-not-inc	Married-spouse-absent	Other-relative	-57.081414	1
15	?	Married-spouse-absent	Unmarried	-461.194586	5
121	Self-emp-inc	Married-civ-spouse	Wife	-2792.338970	38
143	Self-emp-not-inc	Married-civ-spouse	Wife	-6869.066081	85
32	Federal-gov	Divorced	Own-child	-450.855735	5

SQL for Real:  
SELECT workclass,`marital.status`,relationship,SUM(capital), COUNT(\*) FROM C1 WHERE (capital <= 0) GROUP BY workclass,`marital.status`,relationship  
Resulted in 170 records

SQL for Synthetic:  
SELECT workclass,`marital.status`,relationship,SUM(capital), COUNT(\*) FROM C1\_syn\_06 WHERE (capital <= 0) GROUP BY workclass,`marital.status`,relationship  
Resulted in 179 records

Normalized Euclidean distance for (capital): 12.21

Hellinger Distance: 0.039

=====

Real					
native.country	education	marital.status	race	relationship	SUM(`hours.per.week`) COUNT(*)
1180	India	12th	Divorced	White	Unmarried nan nan
2394	Puerto-Rico	7th-8th	Separated	Asian-Pac-Islander	Not-in-family nan nan
1294	Ireland	1st-4th	Separated	White	Unmarried nan nan
1665	Laos	11th	Separated	White	Unmarried nan nan
1257	Iran	HS-grad	Married-civ-spouse	White	Husband 55.000000 1.000000

SQL for Real:  
SELECT `native.country`,education,`marital.status`,race,relationship,SUM(`hours.per.week`), COUNT(\*) FROM C1 WHERE ((age BETWEEN 20 AND 35) OR relationship IN ('Wife', 'Not-in-family', 'Other-relative', 'Own-child', 'Husband', 'Unmarried')) OR (`marital.status` = 'Married-spouse-absent' OR sex IN ('Female', 'Male')) OR (occupation LIKE 'Other-service' OR race IN ('Other', 'White', 'Asian-Pac-Islander', 'Amer-Indian-Eskimo', 'Black')) GROUP BY `native.country`,education,`marital.status`,race,relationship  
Resulted in 2950 records

SQL for Synthetic:  
SELECT `native.country`,education,`marital.status`,race,relationship,SUM(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE ((age BETWEEN 20 AND 35) OR relationship IN ('Wife', 'Not-in-family', 'Other-relative', 'Own-child', 'Husband', 'Unmarried')) OR (`marital.status` = 'Married-spouse-absent' OR sex IN ('Female', 'Male')) OR (occupation LIKE 'Other-service' OR race IN ('Other', 'White', 'Asian-Pac-Islander', 'Amer-Indian-Eskimo', 'Black')) GROUP BY `native.country`,education,`marital.status`,race,relationship  
Resulted in 3922 records

Normalized Euclidean distance for (`hours.per.week`): 35.04

Hellinger Distance: 0.35

=====

Real					
relationship	workclass	income	education	AVG(`hours.per.week`)	COUNT(*)
184	Other-relative	Private	<=50K	Some-college	34.375000 16
270	Unmarried	Private	<=50K	9th	37.727273 11
22	Husband	Local-gov	<=50K	10th	20.000000 1
167	Other-relative	?	<=50K	HS-grad	32.800000 5
315	Wife	Private	<=50K	10th	36.400000 5

SQL for Real:  
SELECT relationship,workclass,income,education,AVG(`hours.per.week`), COUNT(\*) FROM C1 WHERE (race <> 'White') AND (age <= 39 OR relationship <> 'Own-child') AND (`native.country` LIKE 'United-States' AND fnlwtg >= 194869) GROUP BY relationship,workclass,income,education  
Resulted in 340 records

SQL for Synthetic:  
SELECT relationship,workclass,income,education,AVG(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE (race <> 'White') AND (age <= 39 OR relationship <> 'Own-child') AND (`native.country` LIKE 'United-States' AND fnlwtg >= 194869) GROUP BY relationship,workclass,income,education  
Resulted in 68 records

Normalized Euclidean distance for (`hours.per.week`): 8.06

Hellinger Distance: 0.252

=====

Real									
	workclass	education	occupation	race	marital.status	sex	relationship	MAX(fnlwgt)	COUNT(*)
3704	Private	HS-grad	Priv-house-serv	White	Widowed	Female	Other-relative	226084	1
156	?	Bachelors	?	Black	Married-civ-spouse	Male	Husband	230165	1
702	Federal-gov	Some-college	Adm-clerical	White	Never-married	Male	Unmarried	113398	1
4851	Self-emp-not-inc	12th	Craft-repair	White	Married-civ-spouse	Male	Not-in-family	107236	1
5100	Self-emp-not-inc	Masters	Exec-managerial	White	Divorced	Female	Unmarried	109684	1

Synthetic									
	workclass	education	occupation	race	marital.status	sex	relationship	MAX(fnlwgt)	COUNT(*)
3704	Private	HS-grad	Priv-house-serv	White	Widowed	Female	Other-relative	nan	nan
156	?	Bachelors	?	Black	Married-civ-spouse	Male	Husband	nan	nan
702	Federal-gov	Some-college	Adm-clerical	White	Never-married	Male	Unmarried	nan	nan
4851	Self-emp-not-inc	12th	Craft-repair	White	Married-civ-spouse	Male	Not-in-family	nan	nan
5100	Self-emp-not-inc	Masters	Exec-managerial	White	Divorced	Female	Unmarried	nan	nan

SQL for Real:  
SELECT workclass,education,occupation,race,`marital.status`,sex,relationship,MAX(fnlwgt), COUNT(\*) FROM C1 WHERE (`hours.per.week` = 40) GROUP BY workclass,education,occupation,race,`marital.status`,sex,relationship

Resulted in 5715 records

SQL for Synthetic:  
SELECT workclass,education,occupation,race,`marital.status`,sex,relationship,MAX(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (`hours.per.week` = 40) GROUP BY workclass,education,occupation,race,`marital.status`,sex,relationship

Resulted in 0 records

Normalized Euclidean distance for (fnlwgt): nan

Hellinger Distance: nan

=====

Real						
	income	native.country	occupation	marital.status	SUM(age)	COUNT(*)
695	<=50K	Mexico	Transport-moving	Divorced	nan	nan
1160	<=50K	Yugoslavia	Other-service	Married-spouse-absent	nan	nan
1170	>50K	?	Craft-repair	Married-spouse-absent	82.000000	2.000000
593	<=50K	Japan	Priv-house-serv	Separated	nan	nan
945	<=50K	Scotland	Farming-fishing	Never-married	nan	nan

Synthetic						
	income	native.country	occupation	marital.status	SUM(age)	COUNT(*)
695	<=50K	Mexico	Transport-moving	Divorced	65	2
1160	<=50K	Yugoslavia	Other-service	Married-spouse-absent	81	2
1170	>50K	?	Craft-repair	Married-spouse-absent	47	1
593	<=50K	Japan	Priv-house-serv	Separated	55	1
945	<=50K	Scotland	Farming-fishing	Never-married	65	2

SQL for Real:  
SELECT income,`native.country`,occupation,`marital.status`,SUM(age), COUNT(\*) FROM C1 WHERE (relationship = 'Unmarried' AND education LIKE 'Bachelors') AND (income <> '>50K' AND capital <= 0) AND (race IN ('Amer-Indian-Eskimo', 'Other', 'Black', 'Asian-Pac-Islander', 'White') AND `native.country` = 'United-States') OR (`marital.status` <> 'Married-civ-spouse' OR occupation IN ('?', 'Machine-op-inspct', 'Sales', 'Handlers-cleaners', 'Protective-serv')) GROUP BY income,`native.country`,occupation,`marital.status`

Resulted in 1293 records

SQL for Synthetic:  
SELECT income,`native.country`,occupation,`marital.status`,SUM(age), COUNT(\*) FROM C1\_syn\_06 WHERE (relationship = 'Unmarried' AND education LIKE 'Bachelors') AND (income <> '>50K' AND capital <= 0) AND (race IN ('Amer-Indian-Eskimo', 'Other', 'Black', 'Asian-Pac-Islander', 'White') AND `native.country` = 'United-States') OR (`marital.status` <> 'Married-civ-spouse' OR occupation IN ('?', 'Machine-op-inspct', 'Sales', 'Handlers-cleaners', 'Protective-serv')) GROUP BY income,`native.country`,occupation,`marital.status`

Resulted in 1367 records

Normalized Euclidean distance for (age): 25.65

Hellinger Distance: 0.349

=====

Real						
	marital.status	occupation	sex	relationship	MAX(capital)	COUNT(*)
26	Never-married	?	Male	Unmarried	0	9
30	Separated	?	Female	Unmarried	0	8
18	Married-spouse-absent	?	Male	Other-relative	0	1
5	Divorced	?	Male	Own-child	-1602	1
3	Divorced	?	Female	Unmarried	0	6

Synthetic						
	marital.status	occupation	sex	relationship	MAX(capital)	COUNT(*)
26	Never-married	?	Male	Unmarried	240.649821	14.000000
30	Separated	?	Female	Unmarried	40.831991	4.000000
18	Married-spouse-absent	?	Male	Other-relative	nan	nan
5	Divorced	?	Male	Own-child	164.723799	3.000000
3	Divorced	?	Female	Unmarried	165.702610	4.000000

SQL for Real:  
SELECT `marital.status`,occupation,sex,relationship,MAX(capital), COUNT(\*) FROM C1 WHERE (occupation LIKE '?') AND (age <= 26 AND race IN ('White', 'Black')) GROUP BY `marital.status`,occupation,sex,relationship

Resulted in 34 records

SQL for Synthetic:  
SELECT `marital.status`,occupation,sex,relationship,MAX(capital), COUNT(\*) FROM C1\_syn\_06 WHERE (occupation LIKE '?') AND (age <= 26 AND race IN ('White', 'Black')) GROUP BY `marital.status`,occupation,sex,relationship

Resulted in 29 records

Normalized Euclidean distance for (capital): 5.1

Hellinger Distance: 0.081

=====

Real					
	marital.status	education	workclass	MAX(age)	COUNT(*)
48	Never-married	1st-4th	Private	49.000000	32.000000
72	Separated	Some-college	Private	90.000000	7.000000
53	Never-married	Assoc-voc	Private	45.000000	12.000000
4	Divorced	5th-6th	Private	60.000000	9.000000
68	Separated	Bachelors	Private	50.000000	9.000000

Synthetic					
	marital.status	education	workclass	MAX(age)	COUNT(*)
48	Never-married	1st-4th	Private	54	5
72	Separated	Some-college	Private	60	30
53	Never-married	Assoc-voc	Private	58	21
4	Divorced	5th-6th	Private	56	6
68	Separated	Bachelors	Private	61	13

SQL for Real:  
SELECT `marital.status`,education,workclass,MAX(age), COUNT(\*) FROM C1 WHERE (capital BETWEEN 0 AND 4650) AND (workclass = 'Private' AND `native.country` IN ('Thailand', 'Philippines', 'Vietnam', 'Puerto-Rico', 'Greece', 'France', 'Mexico', 'Holand-Netherlands', 'Cambodia', 'El-Salvador', 'Scotland', 'Italy', 'England', 'Jamaica', 'Portugal')) GROUP BY `marital.status`,education,workclass

Resulted in 80 records

SQL for Synthetic:  
SELECT `marital.status`,education,workclass,MAX(age), COUNT(\*) FROM C1\_syn\_06 WHERE (capital BETWEEN 0 AND 4650) AND (workclass = 'Private' AND `native.country` IN ('Thailand', 'Philippines', 'Vietnam', 'Puerto-Rico', 'Greece', 'France', 'Mexico', 'Holand-Netherlands', 'Cambodia', 'El-Salvador', 'Scotland', 'Italy', 'England', 'Jamaica', 'Portugal')) GROUP BY `marital.status`,education,workclass

Resulted in 88 records

Normalized Euclidean distance for (age): 8.54

Hellinger Distance: 0.341

=====

Real						
	relationship	education	occupation	marital.status	AVG(age)	COUNT(*)
655	Not-in-family	Bachelors	Craft-repair	Never-married	34.285714	42.000000
836	Not-in-family	Masters	Prof-specialty	Married-spouse-absent	54.500000	6.000000
1171	Other-relative	HS-grad	Protective-serv	Separated	28.500000	2.000000
754	Not-in-family	HS-grad	Exec-managerial	Widowed	61.441176	34.000000
1267	Own-child	10th	Farming-fishing	Divorced	nan	nan

Synthetic						
	relationship	education	occupation	marital.status	AVG(age)	COUNT(*)
655	Not-in-family	Bachelors	Craft-repair	Never-married	30.862745	51
836	Not-in-family	Masters	Prof-specialty	Married-spouse-absent	45.500000	2
1171	Other-relative	HS-grad	Protective-serv	Separated	49.000000	2
754	Not-in-family	HS-grad	Exec-managerial	Widowed	60.981132	53
1267	Own-child	10th	Farming-fishing	Divorced	50.000000	2

SQL for Real:  
SELECT relationship,education,occupation,`marital.status`,AVG(age), COUNT(\*) FROM C1 WHERE (`marital.status` = 'Married-civ-spouse' OR race LIKE 'White') GROUP BY relationship,education,occupation,`marital.status`

Resulted in 2276 records

SQL for Synthetic:  
SELECT relationship,education,occupation,`marital.status`,AVG(age), COUNT(\*) FROM C1\_syn\_06 WHERE (`marital.status` = 'Married-civ-spouse' OR race LIKE 'White') GROUP BY relationship,education,occupation,`marital.status`

Resulted in 2367 records

Normalized Euclidean distance for (age): 41.86

Hellinger Distance: 0.091

=====

Real											
	income	relationship	sex	education	race	marital.status	workclass	occupation	native.country	MAX(age)	COUNT(*)
2072	<=50K	Other-relative	Male	11th	White	Never-married	Private	Sales	United-States	nan	nan
1157	<=50K	Not-in-family	Female	Masters	White	Divorced	Private	Prof-specialty	United-States	52.000000	2.000000
1994	<=50K	Other-relative	Female	HS-grad	White	Divorced	Private	Machine-op-inspct	United-States	nan	nan
945	<=50K	Not-in-family	Female	Bachelors	White	Never-married	Private	Exec-managerial	Laos	nan	nan
2823	<=50K	Own-child	Male	HS-grad	White	Never-married	Private	Tech-support	Laos	nan	nan

Synthetic										
	income	relationship	sex	education	race	marital.status	workclass	occupation	native.country	MAX(age) COUNT(*)
2072	<=50K	Other-relative	Male	11th	White	Never-married	Private	Sales	United-States	17 1
1157	<=50K	Not-in-family	Female	Masters	White	Divorced	Private	Prof-specialty	United-States	62 3
1994	<=50K	Other-relative	Female	HS-grad	White	Divorced	Private	Machine-op-inspct	United-States	42 2
945	<=50K	Not-in-family	Female	Bachelors	White	Never-married	Private	Exec-managerial	Laos	36 2
2823	<=50K	Own-child	Male	HS-grad	White	Never-married	Private	Tech-support	Laos	26 1

SQL for Real:  
SELECT income,relationship,sex,education,race,`marital.status`,workclass,occupation,`native.country`,MAX(age), COUNT(\*) FROM C1 WHERE (education IN ('10th', '12th', 'Preschool', '9th', '1st-4th', 'Doctorate', 'Assoc-voc') OR workclass = 'Private') AND (`native.country` IN ('Germany', 'Hong', 'Outlying-US(Guam-USVI-etc)', 'Greece', 'Cambodia', 'France', 'Portugal', 'Iran', 'Scotland', 'Yugoslavia', 'Laos', 'Honduras', 'Peru', 'Italy', 'Taiwan', 'United-States', 'Nicaragua', 'Jamaica', 'Japan', 'Dominican-Republic', 'China', 'Cuba', 'Ecuador', 'Thailand', 'Trinidad&Tobago', 'Philippines') AND capital > 0) GROUP BY income,relationship,sex,education,race,`marital.status`,workclass,occupation,`native.country`  
Resulted in 1053 records

SQL for Synthetic:  
SELECT income,relationship,sex,education,race,`marital.status`,workclass,occupation,`native.country`,MAX(age), COUNT(\*) FROM C1\_syn\_06 WHERE (education IN ('10th', '12th', 'Preschool', '9th', '1st-4th', 'Doctorate', 'Assoc-voc') OR workclass = 'Private') AND (`native.country` IN ('Germany', 'Hong', 'Outlying-US(Guam-USVI-etc)', 'Greece', 'Cambodia', 'France', 'Portugal', 'Iran', 'Scotland', 'Yugoslavia', 'Laos', 'Honduras', 'Peru', 'Italy', 'Taiwan', 'United-States', 'Nicaragua', 'Jamaica', 'Japan', 'Dominican-Republic', 'China', 'Cuba', 'Ecuador', 'Thailand', 'Trinidad&Tobago', 'Philippines') AND capital > 0) GROUP BY income,relationship,sex,education,race,`marital.status`,workclass,occupation,`native.country`  
Resulted in 4082 records

Normalized Euclidean distance for (age): 21.95

Hellinger Distance: 0.469

=====

Real				
	workclass	relationship	MAX(fnlwgt)	COUNT(*)
35	Self-emp-not-inc	Wife	462832	191
25	Self-emp-inc	Not-in-family	593246	253
1	?	Not-in-family	913447	667
20	Private	Other-relative	874728	1158
11	Federal-gov	Wife	436341	61

Synthetic				
	workclass	relationship	MAX(fnlwgt)	COUNT(*)
35	Self-emp-not-inc	Wife	191686.848684	198.000000
25	Self-emp-inc	Not-in-family	204293.928722	272.000000
1	?	Not-in-family	1338996.446401	658.000000
20	Private	Other-relative	209208.041466	594.000000
11	Federal-gov	Wife	194985.521430	71.000000

SQL for Real:  
SELECT workclass,relationship,MAX(fnlwgt), COUNT(\*) FROM C1 WHERE (race IN ('Other', 'Amer-Indian-Eskimo')) AND (`hours.per.week` > 40 OR `marital.status` LIKE 'Never-married') OR (education LIKE 'Some-college' OR capital BETWEEN 0 AND 0) AND (fnlwgt <> 172415 AND sex IN ('Male', 'Female')) OR (workclass <> 'Private' OR `native.country` <> 'United-States') GROUP BY workclass,relationship  
Resulted in 42 records

SQL for Synthetic:  
SELECT workclass,relationship,MAX(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (race IN ('Other', 'Amer-Indian-Eskimo')) AND (`hours.per.week` > 40 OR `marital.status` LIKE 'Never-married') OR (education LIKE 'Some-college' OR capital BETWEEN 0 AND 0) AND (fnlwgt <> 172415 AND sex IN ('Male', 'Female')) OR (workclass <> 'Private' OR `native.country` <> 'United-States') GROUP BY workclass,relationship  
Resulted in 42 records

Normalized Euclidean distance for (fnlwgt): 6.48

Hellinger Distance: 0.085

=====

Real					
	education	relationship	workclass	MIN(fnlwgt)	COUNT(*)
0	11th	Unmarried	Private	159109	1
3	Some-college	Unmarried	Private	277342	1
2	HS-grad	Unmarried	Self-emp-not-inc	229842	1
1	HS-grad	Unmarried	Private	189346	2

Synthetic					
	education	relationship	workclass	MIN(fnlwgt)	COUNT(*)
0	11th	Unmarried	Private	nan	nan
3	Some-college	Unmarried	Private	nan	nan
2	HS-grad	Unmarried	Self-emp-not-inc	nan	nan
1	HS-grad	Unmarried	Private	nan	nan

SQL for Real:  
SELECT education,relationship,workclass,MIN(fnlwgt), COUNT(\*) FROM C1 WHERE (fnlwgt <> 343061 OR `hours.per.week` <= 40) AND (age = 29 AND workclass <> 'Local-gov') AND (income IN ('>50K', '<=50K')) AND occupation LIKE 'Transport-moving') AND (relationship LIKE 'Unmarried' AND sex = 'Male') AND ((capital BETWEEN 0 AND 0) AND education <> '10th') GROUP BY education,relationship,workclass  
Resulted in 4 records

SQL for Synthetic:  
SELECT education,relationship,workclass,MIN(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (fnlwgt <> 343061 OR `hours.per.week` <= 40) AND (age = 29 AND workclass <> 'Local-gov') AND (income IN ('>50K', '<=50K')) AND occupation LIKE 'Transport-moving') AND (relationship LIKE 'Unmarried' AND sex = 'Male') AND ((capital BETWEEN 0 AND 0) AND education <> '10th') GROUP BY education,relationship,workclass  
Resulted in 0 records

Normalized Euclidean distance for (fnlwgt): nan



Hellinger Distance: nan

=====

Real										
	relationship	workclass	sex	education	native.country	occupation	race	marital.status	AVG(capital)	COUNT(*)
15690	Wife	Private	Female	Some-college	Ireland	Exec-managerial	White	Married-civ-spouse	nan	nan
10871	Own-child	Private	Male	11th	Laos	Farming-fishing	White	Never-married	nan	nan
9540	Own-child	?	Female	HS-grad	Ireland	?	Black	Never-married	nan	nan
7938	Not-in-family	Self-emp-not-inc	Male	Assoc-acdm	United-States	Other-service	White	Divorced	nan	nan
4657	Not-in-family	Private	Female	5th-6th	United-States	Priv-house-serv	White	Never-married	nan	nan

Synthetic										
	relationship	workclass	sex	education	native.country	occupation	race	marital.status	AVG(capital)	COUNT(*)
15690	Wife	Private	Female	Some-college	Ireland	Exec-managerial	White	Married-civ-spouse	68.042294	1
10871	Own-child	Private	Male	11th	Laos	Farming-fishing	White	Never-married	-45.444730	2
9540	Own-child	?	Female	HS-grad	Ireland	?	Black	Never-married	44.174087	1
7938	Not-in-family	Self-emp-not-inc	Male	Assoc-acdm	United-States	Other-service	White	Divorced	-208.488082	1
4657	Not-in-family	Private	Female	5th-6th	United-States	Priv-house-serv	White	Never-married	-218.716237	1

SOL for Real:  
SELECT relationship,workclass,sex,education,`native.country`,occupation,race,`marital.status`,AVG(capital), COUNT(\*) FROM C1 WHERE (education = 'HS-grad') AND (`hours.per.week` < 16 AND relationship <> 'Own-child') OR (income = '<=50K' OR occupation = 'Sales') OR (race IN ('Asian-Pac-Islander', 'Amer-Indian-Eskimo', 'Other') OR capital <> 0) GROUP BY relationship,workclass,sex,education,`native.country`,occupation,race,`marital.status`

Resulted in 10822 records

SOL for Synthetic:  
SELECT relationship,workclass,sex,education,`native.country`,occupation,race,`marital.status`,AVG(capital), COUNT(\*) FROM C1\_syn\_06 WHERE (education = 'HS-grad') AND (`hours.per.week` < 16 AND relationship <> 'Own-child') OR (income = '<=50K' OR occupation = 'Sales') OR (race IN ('Asian-Pac-Islander', 'Amer-Indian-Eskimo', 'Other') OR capital <> 0) GROUP BY relationship,workclass,sex,education,`native.country`,occupation,race,`marital.status`

Resulted in 15994 records

Normalized Euclidean distance for (capital): 62.06

Hellinger Distance: 0.23

=====

	Real										
	education	marital.status	native.country	race	relationship	income	workclass	occupation	sex	MIN(`hours.per.week`)	COUNT(*)
16138	Some-college	Never-married	Puerto-Rico	White	Not-in-family	<=50K	Private	?	Male	nan	nan
13542	Preschool	Married-civ-spouse	Puerto-Rico	White	Husband	<=50K	Private	Craft-repair	Male	nan	nan
11983	HS-grad	Separated	United-States	White	Not-in-family	<=50K	Private	Craft-repair	Female	40.000000	1.000000
6926	Bachelors	Never-married	Laos	White	Not-in-family	<=50K	Private	Adm-clerical	Male	nan	nan
2109	5th-6th	Married-civ-spouse	Mexico	White	Husband	<=50K	Private	Transport-moving	Male	37.000000	4.000000

Synthetic											
	education	marital.status	native.country	race	relationship	income	workclass	occupation	sex	MIN(`hours.per.week`)	COUNT(*)
16138	Some-college	Never-married	Puerto-Rico	White	Not-in-family	<=50K	Private	?	Male	40.053874	1
13542	Preschool	Married-civ-spouse	Puerto-Rico	White	Husband	<=50K	Private	Craft-repair	Male	39.974042	3
11983	HS-grad	Separated	United-States	White	Not-in-family	<=50K	Private	Craft-repair	Female	39.943371	1
6926	Bachelors	Never-married	Laos	White	Not-in-family	<=50K	Private	Adm-clerical	Male	40.011355	2
2109	5th-6th	Married-civ-spouse	Mexico	White	Husband	<=50K	Private	Transport-moving	Male	40.215503	1

SOL for Real:  
SELECT education,`marital.status`,`native.country`,race,relationship,income,workclass,occupation,sex,MIN(`hours.per.week`), COUNT(\*) FROM C1 WHERE (income IN ('>50K', '<=50K') AND education = 'Some-college') OR (age < 21 OR sex IN ('Male', 'Female')) AND (race <> 'White' AND `native.country` IN ('Peru', 'China', 'Yugoslavia', 'Germany', 'Italy', 'Mexico', 'Jamaica', 'Columbia', 'Hong', 'Cambodia', '?', 'Poland', 'Scotland', 'South', 'Vietnam', 'Puerto-Rico', 'Laos', 'Taiwan', 'India', 'Ecuador')) OR (`hours.per.week` > 20 OR `marital.status` IN ('Married-AF-spouse', 'Never-married', 'Married-spouse-absent', 'Divorced')) GROUP BY education,`marital.status`,`native.country`,race,relationship,income,workclass,occupation,sex

Resulted in 12377 records

SOL for Synthetic:  
SELECT education,`marital.status`,`native.country`,race,relationship,income,workclass,occupation,sex,MIN(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE (income IN ('>50K', '<=50K') AND education = 'Some-college') OR (age < 21 OR sex IN ('Male', 'Female')) AND (race <> 'White' AND `native.country` IN ('Peru', 'China', 'Yugoslavia', 'Germany', 'Italy', 'Mexico', 'Jamaica', 'Columbia', 'Hong', 'Cambodia', '?', 'Poland', 'Scotland', 'South', 'Vietnam', 'Puerto-Rico', 'Laos', 'Taiwan', 'India', 'Ecuador')) OR (`hours.per.week` > 20 OR `marital.status` IN ('Married-AF-spouse', 'Never-married', 'Married-spouse-absent', 'Divorced')) GROUP BY education,`marital.status`,`native.country`,race,relationship,income,workclass,occupation,sex

Resulted in 17127 records

Normalized Euclidean distance for (`hours.per.week`): 64.22

Hellinger Distance: 0.253

=====

Real			
	relationship	marital.status	SUM(age) COUNT(*)
0	Unmarried	Divorced	99037.000000 2369.000000
5	Unmarried	Separated	26328.000000 668.000000
2	Unmarried	Married-civ-spouse	nan nan
4	Unmarried	Never-married	42301.000000 1333.000000
3	Unmarried	Married-spouse-absent	7554.000000 183.000000

Synthetic			
	relationship	marital.status	SUM(age) COUNT(*)
0	Unmarried	Divorced	97032 2307
5	Unmarried	Separated	25405 638
2	Unmarried	Married-civ-spouse	879 21
4	Unmarried	Never-married	41576 1302
3	Unmarried	Married-spouse-absent	6290 155

SQL for Real:  
SELECT relationship,`marital.status`,SUM(age), COUNT(\*) FROM C1 WHERE (relationship LIKE 'Unmarried') GROUP BY relationship,`marital.status`  
Resulted in 5 records

SQL for Synthetic:  
SELECT relationship,`marital.status`,SUM(age), COUNT(\*) FROM C1\_syn\_06 WHERE (relationship LIKE 'Unmarried') GROUP BY relationship,`marital.status`  
Resulted in 7 records

Normalized Euclidean distance for (age): 2.24

Hellinger Distance: 0.01

=====

Real									
	occupation	income	native.country	marital.status	sex	relationship	race	SUM(age)	COUNT(*)
341	?	<=50K	United-States	Never-married	Male	Husband	White	nan	nan
117	?	<=50K	Japan	Widowed	Female	Unmarried	Black	nan	nan
5043	Tech-support	<=50K	Puerto-Rico	Widowed	Female	Unmarried	White	nan	nan
250	?	<=50K	Scotland	Married-civ-spouse	Male	Husband	White	nan	nan
1707	Exec-managerial	<=50K	Peru	Never-married	Female	Not-in-family	Asian-Pac-Islander	nan	nan

Synthetic									
	occupation	income	native.country	marital.status	sex	relationship	race	SUM(age)	COUNT(*)
341	?	<=50K	United-States	Never-married	Male	Husband	White	60	3
117	?	<=50K	Japan	Widowed	Female	Unmarried	Black	66	1
5043	Tech-support	<=50K	Puerto-Rico	Widowed	Female	Unmarried	White	272	5
250	?	<=50K	Scotland	Married-civ-spouse	Male	Husband	White	1039	18
1707	Exec-managerial	<=50K	Peru	Never-married	Female	Not-in-family	Asian-Pac-Islander	38	1

SQL for Real:  
SELECT occupation,income,`native.country`,`marital.status`,sex,relationship,race,SUM(age), COUNT(\*) FROM C1 WHERE (sex = 'Female' OR occupation = 'Other-service') OR ((fnlwgt BETWEEN 325802 AND 331395) OR income <> '<=50K') OR (race = 'White' OR age BETWEEN 50 AND 55) OR (workclass LIKE '?' OR `native.country` IN ('Outlying-US(Guam-USVI-etc)', 'Honduras', 'Vietnam', 'El-Salvador', 'Holand-Netherlands', 'Trinidad&Tobago', 'Dominican-Republic', 'Cuba', 'Columbia')) AND ((capital BETWEEN -1902 AND 0) AND education <> 'Assoc-voc') GROUP BY occupation,income,`native.country`,`marital.status`,sex,relationship,race  
Resulted in 3897 records

SQL for Synthetic:  
SELECT occupation,income,`native.country`,`marital.status`,sex,relationship,race,SUM(age), COUNT(\*) FROM C1\_syn\_06 WHERE (sex = 'Female' OR occupation = 'Other-service') OR ((fnlwgt BETWEEN 325802 AND 331395) OR income <> '<=50K') OR (race = 'White' OR age BETWEEN 50 AND 55) OR (workclass LIKE '?' OR `native.country` IN ('Outlying-US(Guam-USVI-etc)', 'Honduras', 'Vietnam', 'El-Salvador', 'Holand-Netherlands', 'Trinidad&Tobago', 'Dominican-Republic', 'Cuba', 'Columbia')) AND ((capital BETWEEN -1902 AND 0) AND education <> 'Assoc-voc') GROUP BY occupation,income,`native.country`,`marital.status`,sex,relationship,race  
Resulted in 5370 records

Normalized Euclidean distance for (age): 39.31

Hellinger Distance: 0.336

=====

Real										
	marital.status	native.country	education	income	occupation	workclass	relationship	race	MAX(age)	COUNT(*)
8294	Never-married	United-States	Bachelors	<=50K	Other-service	Private	Own-child	Black	54	4
4878	Married-civ-spouse	United-States	HS-grad	<=50K	Tech-support	Federal-gov	Husband	White	58	5
6243	Never-married	?	Bachelors	<=50K	Sales	Private	Not-in-family	Black	37	1
1874	Married-civ-spouse	?	7th-8th	<=50K	Exec-managerial	Self-emp-inc	Husband	White	45	1
7914	Never-married	United-States	Assoc-acdm	<=50K	Craft-repair	Private	Not-in-family	White	44	13

Synthetic										
	marital.status	native.country	education	income	occupation	workclass	relationship	race	MAX(age)	COUNT(*)
8294	Never-married	United-States	Bachelors	<=50K	Other-service	Private	Own-child	Black	nan	nan
4878	Married-civ-spouse	United-States	HS-grad	<=50K	Tech-support	Federal-gov	Husband	White	nan	nan
6243	Never-married	?	Bachelors	<=50K	Sales	Private	Not-in-family	Black	nan	nan
1874	Married-civ-spouse	?	7th-8th	<=50K	Exec-managerial	Self-emp-inc	Husband	White	nan	nan
7914	Never-married	United-States	Assoc-acdm	<=50K	Craft-repair	Private	Not-in-family	White	nan	nan

SQL for Real:  
SELECT `marital.status`,`native.country`,education,income,occupation,workclass,relationship,race,MAX(age), COUNT(\*) FROM C1 WHERE (capital BETWEEN 0 AND 0) OR (income = '>50K' OR `hours.per.week` = 35) GROUP BY `marital.status`,`native.country`,education,income,occupation,workclass,relationship,race  
Resulted in 10936 records

SQL for Synthetic:  
SELECT `marital.status`,`native.country`,education,income,occupation,workclass,relationship,race,MAX(age), COUNT(\*) FROM C1\_syn\_06 WHERE (capital BETWEEN 0 AND 0) OR (income = '>50K' OR `hours.per.week` = 35) GROUP BY `marital.status`,`native.country`,education,income,occupation,workclass,relationship,race  
Resulted in 1720 records

Normalized Euclidean distance for (age): 23.66

Hellinger Distance: 0.191

=====

Real							
	marital.status	native.country	education	relationship	workclass	MAX(`hours.per.week`)	COUNT(*)
2596	Never-married	United-States	Assoc-acdm	Not-in-family	Self-emp-inc	25.000000	1.000000
413	Divorced	Puerto-Rico	7th-8th	Unmarried	Private	nan	nan
1484	Married-spouse-absent	Hungary	Bachelors	Unmarried	Local-gov	nan	nan
1	Divorced	?	11th	Not-in-family	Self-emp-not-inc	nan	nan
1991	Never-married	India	Some-college	Other-relative	Private	nan	nan

Synthetic							
	marital.status	native.country	education	relationship	workclass	MAX(`hours.per.week`)	COUNT(*)
2596	Never-married	United-States	Assoc-acdm	Not-in-family	Self-emp-inc	39.981229	1
413	Divorced	Puerto-Rico	7th-8th	Unmarried	Private	40.031691	7
1484	Married-spouse-absent	Hungary	Bachelors	Unmarried	Local-gov	40.031471	1
1	Divorced	?	11th	Not-in-family	Self-emp-not-inc	40.025133	1
1991	Never-married	India	Some-college	Other-relative	Private	39.994124	2

SQL for Real:  
SELECT `marital.status`,`native.country`,education,relationship,workclass,MAX(`hours.per.week`), COUNT(\*) FROM C1 WHERE (sex <> 'Male' OR education LIKE 'Bachelors') GROUP BY `marital.status`,`native.country`,education,relationship,workclass

Resulted in 2286 records

SQL for Synthetic:  
SELECT `marital.status`,`native.country`,education,relationship,workclass,MAX(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE (sex <> 'Male' OR education LIKE 'Bachelors') GROUP BY `marital.status`,`native.country`,education,relationship,workclass

Resulted in 3495 records

Normalized Euclidean distance for (`hours.per.week`): 32.28

Hellinger Distance: 0.29

=====

Real		
	income	MAX(`hours.per.week`) COUNT(*)
0	<=50K	99 36334
1	>50K	99 11676

Synthetic		
	income	MAX(`hours.per.week`) COUNT(*)
0	<=50K	40.592070 43463.000000
1	>50K	40.563159 4759.000000

SQL for Real:  
SELECT income,MAX(`hours.per.week`), COUNT(\*) FROM C1 WHERE (`marital.status` <> 'Never-married' OR race = 'White') OR (relationship LIKE 'Not-in-family' OR sex <> 'Male') GROUP BY income

Resulted in 2 records

SQL for Synthetic:  
SELECT income,MAX(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE (`marital.status` <> 'Never-married' OR race = 'White') OR (relationship LIKE 'Not-in-family' OR sex <> 'Male') GROUP BY income

Resulted in 2 records

Normalized Euclidean distance for (`hours.per.week`): 1.41

Hellinger Distance: 0.138

=====

Real						
	income	race	marital.status	native.country	workclass	MAX(age) COUNT(*)
585	<=50K	White	Married-civ-spouse	Thailand	?	nan nan
1012	>50K	White	Widowed	United-States	Federal-gov	45.000000 2.000000
792	<=50K	White	Separated	Puerto-Rico	Local-gov	51.000000 1.000000
554	<=50K	White	Married-civ-spouse	Japan	State-gov	nan nan
980	>50K	White	Married-civ-spouse	Yugoslavia	Private	nan nan

Synthetic						
	income	race	marital.status	native.country	workclass	MAX(age) COUNT(*)
585	<=50K	White	Married-civ-spouse	Thailand	?	24 3
1012	>50K	White	Widowed	United-States	Federal-gov	59 1
792	<=50K	White	Separated	Puerto-Rico	Local-gov	60 8
554	<=50K	White	Married-civ-spouse	Japan	State-gov	49 2
980	>50K	White	Married-civ-spouse	Yugoslavia	Private	42 2

SQL for Real:  
SELECT income,race,`marital.status`,`native.country`,workclass,MAX(age), COUNT(\*) FROM C1 WHERE (sex = 'Female' AND workclass <> 'Self-emp-not-inc') GROUP BY income,race,`marital.status`,`native.country`,workclass

Resulted in 763 records

SQL for Synthetic:  
SELECT income,race,`marital.status`,`native.country`,workclass,MAX(age), COUNT(\*) FROM C1\_syn\_06 WHERE (sex = 'Female' AND workclass <> 'Self-emp-not-inc') GROUP BY income,race,`marital.status`,`native.country`,workclass

Resulted in 1016 records

Normalized Euclidean distance for (age): 18.79

Hellinger Distance: 0.355

=====

Real					
	native.country	occupation	income	SUM(`hours.per.week`)	COUNT(*)
239	Greece	Sales	<=50K	140	3
77	China	Transport-moving	<=50K	40	1
393	Jamaica	Prof-specialty	<=50K	226	6
405	Japan	Craft-repair	<=50K	230	5
71	China	Prof-specialty	<=50K	668	19

  

Synthetic					
	native.country	occupation	income	SUM(`hours.per.week`)	COUNT(*)
239	Greece	Sales	<=50K	nan	nan
77	China	Transport-moving	<=50K	nan	nan
393	Jamaica	Prof-specialty	<=50K	80.114613	2.000000
405	Japan	Craft-repair	<=50K	5960.462707	149.000000
71	China	Prof-specialty	<=50K	600.096475	15.000000

SQL for Real:  
SELECT `native.country`,occupation,income,SUM(`hours.per.week`), COUNT(\*) FROM C1 WHERE (`marital.status` <> 'Never-married') OR (education LIKE 'HS-grad' OR `native.country` = 'United-States') OR (relationship = 'Not-in-family' OR `hours.per.week` BETWEEN 41 AND 40) GROUP BY `native.country`,occupation,income

Resulted in 699 records

SQL for Synthetic:  
SELECT `native.country`,occupation,income,SUM(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE (`marital.status` <> 'Never-married') OR (education LIKE 'HS-grad' OR `native.country` = 'United-States') OR (relationship = 'Not-in-family' OR `hours.per.week` BETWEEN 41 AND 40) GROUP BY `native.country`,occupation,income

Resulted in 608 records

Normalized Euclidean distance for (`hours.per.week`): 20.9

Hellinger Distance: 0.396

=====

Real										
	occupation	education	relationship	income	race	sex	workclass	native.country	marital.status	MIN(capital) COUNT(*)
97	Handlers-cleaners	10th	Unmarried	<=50K	White	Male	Private	United-States	Never-married	0.000000 3.000000
64	Exec-managerial	10th	Unmarried	<=50K	White	Female	Self-emp-not-inc	United-States	Never-married	nan nan
19	?	10th	Own-child	<=50K	White	Male	?	United-States	Never-married	-1721.000000 30.000000
120	Machine-op-inspct	10th	Wife	<=50K	White	Female	Private	United-States	Never-married	nan nan
66	Farming-fishing	10th	Not-in-family	<=50K	White	Male	Private	United-States	Never-married	0.000000 2.000000

  

Synthetic										
	occupation	education	relationship	income	race	sex	workclass	native.country	marital.status	MIN(capital) COUNT(*)
97	Handlers-cleaners	10th	Unmarried	<=50K	White	Male	Private	United-States	Never-married	-90.573985 2
64	Exec-managerial	10th	Unmarried	<=50K	White	Female	Self-emp-not-inc	United-States	Never-married	-35.471121 1
19	?	10th	Own-child	<=50K	White	Male	?	United-States	Never-married	-242.652523 10
120	Machine-op-inspct	10th	Wife	<=50K	White	Female	Private	United-States	Never-married	-26.645626 1
66	Farming-fishing	10th	Not-in-family	<=50K	White	Male	Private	United-States	Never-married	-82.138422 4

SQL for Real:  
SELECT occupation,education,relationship,income,race,sex,workclass,`native.country`, `marital.status`,MIN(capital), COUNT(\*) FROM C1 WHERE (relationship IN ('Own-child', 'Wife', 'Unmarried') OR race IN ('Amer-Indian-Eskimo', 'Other', 'Asian-Pac-Islander', 'White', 'Black')) AND (`marital.status` LIKE 'Never-married' AND education = '10th') GROUP BY occupation,education,relationship,income,race,sex,workclass, `native.country`, `marital.status`

Resulted in 188 records

SQL for Synthetic:  
SELECT occupation,education,relationship,income,race,sex,workclass,`native.country`, `marital.status`,MIN(capital), COUNT(\*) FROM C1\_syn\_06 WHERE (relationship IN ('Own-child', 'Wife', 'Unmarried') OR race IN ('Amer-Indian-Eskimo', 'Other', 'Asian-Pac-Islander', 'White', 'Black')) AND (`marital.status` LIKE 'Never-married' AND education = '10th') GROUP BY occupation,education,relationship,income,race,sex,workclass, `native.country`, `marital.status`

Resulted in 223 records

Normalized Euclidean distance for (capital): 8.19

Hellinger Distance: 0.198

=====

Real										
	native.country	occupation	workclass	marital.status	education	sex	relationship	income	SUM(`hours.per.week`)	COUNT(*)
6919	Puerto-Rico	Exec-managerial	Self-emp-not-inc	Married-civ-spouse	Assoc-acdm	Female	Wife	<=50K	nan	nan
8839	Scotland	Adm-clerical	Federal-gov	Divorced	HS-grad	Female	Unmarried	<=50K	nan	nan
4246	Laos	?	?	Never-married	10th	Male	Own-child	<=50K	nan	nan
7824	Puerto-Rico	Prof-specialty	Local-gov	Married-civ-spouse	Some-college	Female	Wife	<=50K	nan	nan
9667	United-States	?	?	Separated	7th-8th	Male	Unmarried	<=50K	nan	nan

  

Synthetic										
	native.country	occupation	workclass	marital.status	education	sex	relationship	income	SUM(`hours.per.week`)	COUNT(*)
6919	Puerto-Rico	Exec-managerial	Self-emp-not-inc	Married-civ-spouse	Assoc-acdm	Female	Wife	<=50K	39.980840	1
8839	Scotland	Adm-clerical	Federal-gov	Divorced	HS-grad	Female	Unmarried	<=50K	40.051883	1
4246	Laos	?	?	Never-married	10th	Male	Own-child	<=50K	39.546903	1
7824	Puerto-Rico	Prof-specialty	Local-gov	Married-civ-spouse	Some-college	Female	Wife	<=50K	79.998304	2
9667	United-States	?	?	Separated	7th-8th	Male	Unmarried	<=50K	40.019019	1

SQL for Real:  
SELECT `native.country`,occupation,workclass, `marital.status`,education,sex,relationship,income,SUM(`hours.per.week`), COUNT(\*) FROM C1 WHERE (capital >= 15024 OR workclass IN ('State-gov', 'Federal-gov', 'Private', 'Self-emp-inc', 'Local-gov', 'Self-emp-not-inc', '?')) OR (age <= 56 OR education = 'Bachelors') GROUP BY `native.country`,occupation,workclass, `marital.status`,education,sex,relationship,income

Resulted in 10400 records

SQL for Synthetic:  
SELECT `native.country`,occupation,workclass,`marital.status`,education,sex,relationship,income,SUM(`hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE (capital >= 15024 OR workclass IN ('State-gov', 'Federal-gov', 'Private', 'Self-emp-inc', 'Local-gov', 'Self-emp-not-inc', '?')) OR (age <= 56 OR education = 'Bachelors') GROUP BY `native.country`,occupation,workclass,`marital.status`,education,sex,relationship,income

Resulted in 14639 records

Normalized Euclidean distance for (`hours.per.week`): 62.27

Hellinger Distance: 0.26

=====

Real									
	occupation	relationship	income	race	sex	marital.status	native.country	workclass	SUM(age) COUNT(*)
4567	Other-service	Own-child	<=50K	White	Female	Married-civ-spouse	United-States	Private	177.000000 6.000000
1640	Craft-repair	Not-in-family	<=50K	White	Male	Widowed	Guatemala	Private	nan nan
2178	Exec-managerial	Not-in-family	<=50K	White	Female	Divorced	?	State-gov	nan nan
5068	Prof-specialty	Husband	<=50K	Asian-Pac-Islander	Male	Married-civ-spouse	India	Private	266.000000 7.000000
546	Adm-clerical	Not-in-family	<=50K	White	Female	Never-married	Puerto-Rico	Federal-gov	nan nan

Synthetic									
	occupation	relationship	income	race	sex	marital.status	native.country	workclass	SUM(age) COUNT(*)
4567	Other-service	Own-child	<=50K	White	Female	Married-civ-spouse	United-States	Private	304 11
1640	Craft-repair	Not-in-family	<=50K	White	Male	Widowed	Guatemala	Private	34 1
2178	Exec-managerial	Not-in-family	<=50K	White	Female	Divorced	?	State-gov	38 1
5068	Prof-specialty	Husband	<=50K	Asian-Pac-Islander	Male	Married-civ-spouse	India	Private	76 2
546	Adm-clerical	Not-in-family	<=50K	White	Female	Never-married	Puerto-Rico	Federal-gov	268 7

SQL for Real:  
SELECT occupation,relationship,income,race,sex,`marital.status`,`native.country`,workclass,SUM(age), COUNT(\*) FROM C1 WHERE (race LIKE 'White' OR workclass = 'Private') OR (sex <> 'Male' OR occupation IN ('Craft-repair', 'Exec-managerial', 'Prof-specialty', 'Sales', 'Transport-moving', 'Adm-clerical', 'Other-service', '?', 'Priv-house-serv', 'Handlers-cleaners', 'Armed-Forces', 'Tech-support')) AND (`native.country` <> 'United-States' AND capital BETWEEN 0 AND 0) AND (fnlwgt = 52537 AND `marital.status` = 'Divorced') GROUP BY occupation,relationship,income,race,sex,`marital.status`,`native.country`,workclass

Resulted in 5318 records

SQL for Synthetic:  
SELECT occupation,relationship,income,race,sex,`marital.status`,`native.country`,workclass,SUM(age), COUNT(\*) FROM C1\_syn\_06 WHERE (race LIKE 'White' OR workclass = 'Private') OR (sex <> 'Male' OR occupation IN ('Craft-repair', 'Exec-managerial', 'Prof-specialty', 'Sales', 'Transport-moving', 'Adm-clerical', 'Other-service', '?', 'Priv-house-serv', 'Handlers-cleaners', 'Armed-Forces', 'Tech-support')) AND (`native.country` <> 'United-States' AND capital BETWEEN 0 AND 0) AND (fnlwgt = 52537 AND `marital.status` = 'Divorced') GROUP BY occupation,relationship,income,race,sex,`marital.status`,`native.country`,workclass

Resulted in 7754 records

Normalized Euclidean distance for (age): 46.82

Hellinger Distance: 0.304

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Real				
	education	occupation	workclass	MIN(fnlwgt) COUNT(*)
Synthetic				
	education	occupation	workclass	MIN(fnlwgt) COUNT(*)

SQL for Real:  
SELECT education,occupation,workclass,MIN(fnlwgt), COUNT(\*) FROM C1 WHERE (education IN ('5th-6th', 'HS-grad', 'Bachelors', '12th', 'Assoc-acdm', 'Masters', 'Prof-school', '7th-8th', '11th', 'Preschool', '9th', 'Some-college', 'Doctorate', 'Assoc-voc', '1st-4th') OR `native.country` <> 'United-States') AND (`hours.per.week` < 40 AND fnlwgt = 47707) GROUP BY education,occupation,workclass

Resulted in 0 records

SQL for Synthetic:  
SELECT education,occupation,workclass,MIN(fnlwgt), COUNT(\*) FROM C1\_syn\_06 WHERE (education IN ('5th-6th', 'HS-grad', 'Bachelors', '12th', 'Assoc-acdm', 'Masters', 'Prof-school', '7th-8th', '11th', 'Preschool', '9th', 'Some-college', 'Doctorate', 'Assoc-voc', '1st-4th') OR `native.country` <> 'United-States') AND (`hours.per.week` < 40 AND fnlwgt = 47707) GROUP BY education,occupation,workclass

Resulted in 0 records

Normalized Euclidean distance for (fnlwgt): nan

Hellinger Distance: nan

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Real				
	sex	marital.status	education	MAX(capital) COUNT(*)
14	Male	Married-civ-spouse	Preschool	0 18
9	Male	Married-civ-spouse	Assoc-voc	0 395
15	Male	Married-civ-spouse	Prof-school	0 205
0	Male	Married-AF-spouse	HS-grad	0 1
2	Male	Married-civ-spouse	11th	0 256
Synthetic				
	sex	marital.status	education	MAX(capital) COUNT(*)
14	Male	Married-civ-spouse	Preschool	nan nan
9	Male	Married-civ-spouse	Assoc-voc	nan nan
15	Male	Married-civ-spouse	Prof-school	nan nan
0	Male	Married-AF-spouse	HS-grad	nan nan
2	Male	Married-civ-spouse	11th	nan nan

SQL for Real:  
SELECT sex,`marital.status`,education,MAX(capital), COUNT(\*) FROM C1 WHERE (`hours.per.week` = 40 OR `marital.status` LIKE 'Married-civ-spouse') AND (sex = 'Male'

AND fnlwtg >= 158451) AND ((capital BETWEEN 0 AND 0) AND relationship LIKE 'Husband') GROUP BY sex,`marital.status`,education

Resulted in 17 records

SQL for Synthetic:

SELECT sex,`marital.status`,education,MAX(capital), COUNT(\*) FROM C1\_syn\_06 WHERE (` hours.per.week` = 40 OR `marital.status` LIKE 'Married-civ-spouse') AND (sex = 'Male' AND fnlwtg >= 158451) AND ((capital BETWEEN 0 AND 0) AND relationship LIKE 'Husband') GROUP BY sex,`marital.status`,education

Resulted in 0 records

Normalized Euclidean distance for (capital): nan

Hellinger Distance: nan

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Real								
	sex	occupation	marital.status	workclass	relationship	income	MAX(` hours.per.week`)	COUNT(*)
809	Female	Sales	Married-civ-spouse	Private	Other-relative	>50K	24	1
1036	Male	Adm-clerical	Divorced	Private	Unmarried	>50K	45	1
431	Female	Machine-op-inspct	Married-civ-spouse	Private	Not-in-family	<=50K	40	2
1204	Male	Craft-repair	Never-married	Private	Other-relative	<=50K	60	73
2055	Male	Tech-support	Separated	Federal-gov	Unmarried	<=50K	40	1

Synthetic								
	sex	occupation	marital.status	workclass	relationship	income	MAX(` hours.per.week`)	COUNT(*)
809	Female	Sales	Married-civ-spouse	Private	Other-relative	>50K	nan	nan
1036	Male	Adm-clerical	Divorced	Private	Unmarried	>50K	nan	nan
431	Female	Machine-op-inspct	Married-civ-spouse	Private	Not-in-family	<=50K	40.056874	4.000000
1204	Male	Craft-repair	Never-married	Private	Other-relative	<=50K	40.081915	65.000000
2055	Male	Tech-support	Separated	Federal-gov	Unmarried	<=50K	nan	nan

SQL for Real:  
SELECT sex,occupation,`marital.status`,workclass,relationship,income,MAX(` hours.per.week`), COUNT(\*) FROM C1 WHERE (` hours.per.week` > 60) AND (age <> 31 AND income LIKE '>50K') OR (race IN ('Black', 'White') OR sex IN ('Male', 'Female')) OR (occupation LIKE 'Transport-moving' OR education <> 'Some-college') AND (relationship <> 'Not-in-family' AND capital BETWEEN 0 AND 0) OR (fnlwtg <= 356934 OR `native.country` <> 'United-States') GROUP BY sex,occupation,`marital.status`,workclass,relationship,income

Resulted in 2148 records

SQL for Synthetic:  
SELECT sex,occupation,`marital.status`,workclass,relationship,income,MAX(` hours.per.week`), COUNT(\*) FROM C1\_syn\_06 WHERE (` hours.per.week` > 60) AND (age <> 31 AND income LIKE '>50K') OR (race IN ('Black', 'White') OR sex IN ('Male', 'Female')) OR (occupation LIKE 'Transport-moving' OR education <> 'Some-college') AND (relationship <> 'Not-in-family' AND capital BETWEEN 0 AND 0) OR (fnlwtg <= 356934 OR `native.country` <> 'United-States') GROUP BY sex,occupation,`marital.status`,workclass,relationship,income

Resulted in 2126 records

Normalized Euclidean distance for (` hours.per.week`): 38.99

Hellinger Distance: 0.175

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Real									
	occupation	sex	income	native.country	relationship	marital.status	workclass	AVG(age)	COUNT(*)
597	Adm-clerical	Female	<=50K	Philippines	Wife	Married-civ-spouse	Private	36.000000	1.000000
2177	Exec-managerial	Male	<=50K	Columbia	Not-in-family	Married-spouse-absent	Self-emp-not-inc	nan	nan
1475	Craft-repair	Male	<=50K	Mexico	Not-in-family	Divorced	Private	41.000000	2.000000
2608	Farming-fishing	Male	<=50K	Columbia	Not-in-family	Divorced	Self-emp-not-inc	nan	nan
4685	Prof-specialty	Female	<=50K	United-States	Not-in-family	Divorced	Self-emp-not-inc	48.190476	21.000000

Synthetic									
	occupation	sex	income	native.country	relationship	marital.status	workclass	AVG(age)	COUNT(*)
597	Adm-clerical	Female	<=50K	Philippines	Wife	Married-civ-spouse	Private	39.000000	3
2177	Exec-managerial	Male	<=50K	Columbia	Not-in-family	Married-spouse-absent	Self-emp-not-inc	33.000000	1
1475	Craft-repair	Male	<=50K	Mexico	Not-in-family	Divorced	Private	50.000000	1
2608	Farming-fishing	Male	<=50K	Columbia	Not-in-family	Divorced	Self-emp-not-inc	46.000000	1
4685	Prof-specialty	Female	<=50K	United-States	Not-in-family	Divorced	Self-emp-not-inc	48.500000	12

SQL for Real:  
SELECT occupation,sex,income,`native.country`,relationship,`marital.status`,workclass,AVG(age), COUNT(\*) FROM C1 WHERE (relationship LIKE 'Own-child' OR `hours.per.week` BETWEEN 40 AND 40) AND (sex LIKE 'Female' AND capital BETWEEN 0 AND 0) AND (race IN ('Asian-Pac-Islander', 'Amer-Indian-Eskimo', 'Black') AND `native.country` LIKE 'United-States') OR (education = 'Some-college' OR fnlwtg <> 236396) OR (`marital.status` = 'Married-civ-spouse' OR occupation LIKE 'Adm-clerical') GROUP BY occupation,sex,income,`native.country`,relationship,`marital.status`,workclass

Resulted in 4878 records

SQL for Synthetic:

SELECT occupation,sex,income,`native.country`,relationship,`marital.status`,workclass,AVG(age), COUNT(\*) FROM C1\_syn\_06 WHERE (relationship LIKE 'Own-child' OR `hours.per.week` BETWEEN 40 AND 40) AND (sex LIKE 'Female' AND capital BETWEEN 0 AND 0) AND (race IN ('Asian-Pac-Islander', 'Amer-Indian-Eskimo', 'Black') AND `native.country` LIKE 'United-States') OR (education = 'Some-college' OR fnlwtg <> 236396) OR (`marital.status` = 'Married-civ-spouse' OR occupation LIKE 'Adm-clerical') GROUP BY occupation,sex,income,`native.country`,relationship,`marital.status`,workclass

Resulted in 6808 records

Normalized Euclidean distance for (age): 45.73

Hellinger Distance: 0.311

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Hellinger Distance Summary: {'mean': 0.2210146331272294, 'median': 0.23770563481546514, 'stddev': 0.11083381530412842}

Euclidean distance Summary : {'mean': 30.38649259011477, 'median': 31.07680100320278, 'stddev': 21.201374421796952}

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