tax [TABLE]

Column	Type
fname	string
lname	string
gender	string
areacode	string
phone	string
city	string
state	string
zip	string
maritalstatus	string
haschild	string
salary	long
rate	string
singleexemp	long
marriedexemp	long
childexemp	long

The TAX Dataset 20K

e1: zip $\rightarrow$ city
e2: zip $\rightarrow$ state
e3: haschild, state $\rightarrow$ childexemp
e4: maritalstatus, state $\rightarrow$ singleexemp

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e1: tax(t_1), tax(t_2), t_1.zip = t_2.zip, t_1.city ≠ t_2.city $\rightarrow$ **#fail**

e2: tax(t_1), tax(t_2), t_1.zip = t_2.zip, t_1.state ≠ t_2.state $\rightarrow$ **#fail**

e3: tax(t_1), tax(t_2), t_1.haschild = t_2.haschild, t_1.state = t_2.state, t_1.childexemp ≠ t_2.childexemp $\rightarrow$ **#fail**

e4: tax(t_1), tax(t_2), t_1.maritalstatus = t_2. maritalstatus, t_1.state = t_2.state, t_1.singleexemp ≠ t_2.singleexemp $\rightarrow$ **#fail**

oid	fname	lname	gender	areacode	phone	city	state	zip	maritalstatus	haschild	salary	rate	singleexemp	marriedexemp	childexemp
1	Xunwei	Laulhere	F	808	812-2143	KEALIA	HI	96751	M	N	10000	28421100	0	2080	0
2	Branimir	Rosti	M	401	864-1644	GLENDALE	RI	2826	S	N	30000	0	0	0	0
3	Jianzhong	Louis	M	541	958-8506	PACIFIC CITY	OR	97135	M	N	70000	90	0	318	0
4	Biswanath	Hojati	F	509	517-7438	ISSAQUAH	WA	98027	S	Y	80000	0	0	0	0
5	Hanene	Schlegel	M	928	977-1131	BULLHEAD CITY	AZ	86429	S	N	50000	349	2100	0	0
6	Spiro	Riza	M	270	808-3648	HOPKINSVILLE	KY	42241	S	Y	10000	23888900	20	0	20
7	Snjiv	Sowerbutts	F	870	106-9590	PARKDALE	AR	71661	S	N	80000	70	20	0	0
8	Forman	Kerntopf	F	907	363-8693	DENALI NATIONAL PARK	AK	99755	M	N	25000	0	0	0	0
9	Taizo	Berrada	F	347	173-2747	NEW YORK	NY	10021	M	N	85000	44460400	0	0	0
10	Derrick	Halker	M	939	127-9166	RIO GRANDE	PR	745	M	Y	70000	0	0	0	0
11	Nicolaas	Burgett	F	802	456-6759	NEWPORT CENTER	VT	5857	S	N	40000	3800940	3300	0	0