

Cassandra Schemas:

For “Events Across Cities”



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cqlsh:waze> SELECT * FROM date_and_type;
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type	date	city	count
HAZARD	2016-02-07	atlanta	102
HAZARD	2016-02-07	austin	8
HAZARD	2016-02-07	baltimore	51
HAZARD	2016-02-07	boston	26
HAZARD	2016-02-07	chicago	16
HAZARD	2016-02-07	cincinnati	15
HAZARD	2016-02-07	detroit	24
HAZARD	2016-02-07	houston	26
HAZARD	2016-02-07	los_angeles	2
HAZARD	2016-02-07	miami	17
HAZARD	2016-02-07	minneapolis	7
HAZARD	2016-02-07	nyc	76
HAZARD	2016-02-07	philly	47
HAZARD	2016-02-07	portland	1
HAZARD	2016-02-07	san_francisco	1
HAZARD	2016-02-07	seattle	1
HAZARD	2016-02-07	st_louis	19
HAZARD	2016-02-07	tampa	26
JAM	2016-02-09	atlanta	1239
JAM	2016-02-09	austin	1954
JAM	2016-02-09	baltimore	351
JAM	2016-02-09	boston	1556
JAM	2016-02-09	chicago	1576
JAM	2016-02-09	cincinnati	358
JAM	2016-02-09	dallas	1877
JAM	2016-02-09	dc	723
JAM	2016-02-09	denver	2255
JAM	2016-02-09	detroit	797
JAM	2016-02-09	houston	2330
JAM	2016-02-09	kansas_city	228
JAM	2016-02-09	los_angeles	2906
JAM	2016-02-09	miami	2866
JAM	2016-02-09	minneapolis	1110
JAM	2016-02-09	mountain_view	2653
JAM	2016-02-09	nyc	1637
JAM	2016-02-09	philly	1258
JAM	2016-02-09	phoenix	1240
JAM	2016-02-09	portland	1671
JAM	2016-02-09	san_diego	1991
JAM	2016-02-09	san_francisco	2225
JAM	2016-02-09	seattle	1573
JAM	2016-02-09	st_louis	890
JAM	2016-02-09	tampa	1644
MISC	2016-01-30	chicago	1
MISC	2016-01-30	philly	1

Cassandra Schemas:

For “Event Subtypes for a City”



cqlsh:waze> SELECT * FROM date_and_city;

date	city	type	subtype	count
2016-02-11	miami	ACCIDENT	ACCIDENT_MINOR	1
2016-02-11	miami	POLICE	POLICE_VISIBLE	1
2016-02-06	houston	ACCIDENT	ACCIDENT	84
2016-02-06	houston	ACCIDENT	ACCIDENT_MAJOR	44
2016-02-06	houston	ACCIDENT	ACCIDENT_MINOR	96
2016-02-06	houston	CHIT_CHAT	CHIT_CHAT	18
2016-02-06	houston	HAZARD	HAZARD	93
2016-02-06	houston	HAZARD	HAZARD_ON_ROAD	4
2016-02-06	houston	HAZARD	HAZARD_ON_ROAD_CAR_STOPPED	102
2016-02-06	houston	HAZARD	HAZARD_ON_ROAD_CONSTRUCTION	108
2016-02-06	houston	HAZARD	HAZARD_ON_ROAD_ICE	1
2016-02-06	houston	HAZARD	HAZARD_ON_ROAD_OBJECT	65
2016-02-06	houston	HAZARD	HAZARD_ON_ROAD_POT_HOLE	102
2016-02-06	houston	HAZARD	HAZARD_ON_ROAD_ROAD_KILL	6
2016-02-06	houston	HAZARD	HAZARD_ON_SHOULDER	3
2016-02-06	houston	HAZARD	HAZARD_ON_SHOULDER_ANIMALS	6
2016-02-06	houston	HAZARD	HAZARD_ON_SHOULDER_CAR_STOPPED	485
2016-02-06	houston	HAZARD	HAZARD_ON_SHOULDER_MISSING_SIGN	1
2016-02-06	houston	HAZARD	HAZARD_WEATHER	2
2016-02-06	houston	HAZARD	HAZARD_WEATHER_FOG	1
2016-02-06	houston	JAM	JAM	171
2016-02-06	houston	JAM	JAM_HEAVY_TRAFFIC	852
2016-02-06	houston	JAM	JAM_MODERATE_TRAFFIC	359
2016-02-06	houston	JAM	JAM_STAND_STILL_TRAFFIC	488
2016-02-06	houston	POLICE	POLICE	156
2016-02-06	houston	POLICE	POLICE_HIDING	66
2016-02-06	houston	POLICE	POLICE_VISIBLE	381
2016-02-06	houston	ROAD_CLOSED	ROAD_CLOSED	3
2016-02-06	houston	ROAD_CLOSED	ROAD_CLOSED_CONSTRUCTION	14
2016-02-06	houston	ROAD_CLOSED	ROAD_CLOSED_EVENT	1
2016-02-03	minneapolis	ACCIDENT	ACCIDENT	182
2016-02-03	minneapolis	ACCIDENT	ACCIDENT_MAJOR	37
2016-02-03	minneapolis	ACCIDENT	ACCIDENT_MINOR	100
2016-02-03	minneapolis	CHIT_CHAT	CHIT_CHAT	9
2016-02-03	minneapolis	HAZARD	HAZARD	45
2016-02-03	minneapolis	HAZARD	HAZARD_ON_ROAD	4
2016-02-03	minneapolis	HAZARD	HAZARD_ON_ROAD_CAR_STOPPED	68
2016-02-03	minneapolis	HAZARD	HAZARD_ON_ROAD_CONSTRUCTION	18
2016-02-03	minneapolis	HAZARD	HAZARD_ON_ROAD_ICE	163
2016-02-03	minneapolis	HAZARD	HAZARD_ON_ROAD_OBJECT	21
2016-02-03	minneapolis	HAZARD	HAZARD_ON_ROAD_POT_HOLE	4
2016-02-03	minneapolis	HAZARD	HAZARD_ON_ROAD_ROAD_KILL	2
2016-02-03	minneapolis	HAZARD	HAZARD_ON_SHOULDER	44
2016-02-03	minneapolis	HAZARD	HAZARD_ON_SHOULDER_ANIMALS	2
2016-02-03	minneapolis	HAZARD	HAZARD_ON_SHOULDER_CAR_STOPPED	310
2016-02-03	minneapolis	HAZARD	HAZARD_ON_SHOULDER_MISSING_SIGN	2
2016-02-03	minneapolis	HAZARD	HAZARD_WEATHER	3
2016-02-03	minneapolis	HAZARD	HAZARD_WEATHER_FOG	1

Cassandra Schemas:

For “Hotspots”



sqlsh:zawe> SELECT * FROM hotspots;

city	type	weekday	date	hour	lat	lng	subtype
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	1	34.0755	-118.27271	ROAD_CLOSED_CONSTRUCTION
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	2	34.07164	-118.26714	
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	2	34.07293	-118.26927	ROAD_CLOSED_CONSTRUCTION
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	3	34.04716	-118.23808	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	6	34.04849	-118.23387	ROAD_CLOSED_CONSTRUCTION
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	7	34.03855	-118.23053	ROAD_CLOSED_CONSTRUCTION
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	8	34.06749	-118.37406	ROAD_CLOSED_CONSTRUCTION
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	8	34.09618	-118.33529	ROAD_CLOSED_CONSTRUCTION
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	33.96566	-118.35725	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	34.03582	-118.22178	
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	34.05135	-118.24506	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	34.05413	-118.24506	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	34.0543	-118.24532	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	34.05431	-118.25352	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	34.05444	-118.2534	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	34.05447	-118.24986	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	34.05457	-118.25148	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	34.05472	-118.25024	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	34.05523	-118.25161	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	34.06712	-118.37411	
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	34.15446	-118.3393	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	34.1548	-118.3383	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	34.1549	-118.33955	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	34.15591	-118.33649	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	34.15611	-118.33593	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	34.15613	-118.33585	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	34.17555	-118.31434	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	34.18845	-118.3265	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	34.18867	-118.3272	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	9	34.19199	-118.32935	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	10	33.96599	-118.35783	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	10	34.03237	-118.22021	ROAD_CLOSED_CONSTRUCTION
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	10	34.03643	-118.22047	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	10	34.03834	-118.22721	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	10	34.049	-118.23811	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	10	34.05239	-118.24667	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	10	34.05375	-118.25225	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	10	34.05427	-118.38841	ROAD_CLOSED_CONSTRUCTION
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	10	34.05515	-118.25092	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	10	34.08153	-118.22575	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	10	34.09436	-118.3092	ROAD_CLOSED_CONSTRUCTION
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	10	34.09979	-118.32667	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	10	34.09981	-118.32373	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	10	34.09982	-118.32233	ROAD_CLOSED_CONSTRUCTION
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	10	34.10163	-118.32375	ROAD_CLOSED_CONSTRUCTION
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	10	34.10775	-118.38003	ROAD_CLOSED_EVENT
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	10	34.11148	-118.1815	ROAD_CLOSED_CONSTRUCTION
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	11	33.96159	-118.36892	ROAD_CLOSED_CONSTRUCTION
los_angeles	ROAD_CLOSED	Wednesday	2016-01-27	11	34.03123	-118.21938	

Cassandra Schemas:

For “Realtime”



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cqlsh:waze> SELECT * FROM realtime ;
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city	type	subtype	lat	lng	numofthumbsup
austin	ACCIDENT		30.28035	-97.7409	0
austin	ACCIDENT		30.35926	-97.79031	1
austin	ACCIDENT		30.36314	-97.69698	0
austin	ACCIDENT	ACCIDENT_MINOR	30.19964	-97.76327	1
austin	HAZARD		30.26215	-97.72697	0
austin	HAZARD		30.35847	-97.68854	0
austin	HAZARD	HAZARD_ON_ROAD_CAR_STOPPED	30.32968	-97.63769	0
austin	HAZARD	HAZARD_ON_ROAD_CAR_STOPPED	30.35286	-97.79489	2
austin	HAZARD	HAZARD_ON_ROAD_CAR_STOPPED	30.35797	-97.68746	0
austin	HAZARD	HAZARD_ON_ROAD_CONSTRUCTION	30.20323	-97.63981	4
austin	HAZARD	HAZARD_ON_ROAD_OBJECT	30.16292	-97.65217	4
austin	HAZARD	HAZARD_ON_ROAD_OBJECT	30.21731	-97.62228	3
austin	HAZARD	HAZARD_ON_ROAD_OBJECT	30.21773	-97.62228	4
austin	HAZARD	HAZARD_ON_ROAD_OBJECT	30.35468	-97.79404	1
austin	HAZARD	HAZARD_ON_ROAD_OBJECT	30.40829	-97.71811	1
austin	HAZARD	HAZARD_ON_ROAD_OBJECT	30.40888	-97.71468	16
austin	HAZARD	HAZARD_ON_ROAD_OBJECT	30.41026	-97.58424	1
austin	HAZARD	HAZARD_ON_SHOULDER_CAR_STOPPED	30.14874	-97.79282	0
austin	HAZARD	HAZARD_ON_SHOULDER_CAR_STOPPED	30.20783	-97.62223	0
austin	HAZARD	HAZARD_ON_SHOULDER_CAR_STOPPED	30.23508	-97.61786	1
austin	HAZARD	HAZARD_ON_SHOULDER_CAR_STOPPED	30.23674	-97.83385	2
austin	HAZARD	HAZARD_ON_SHOULDER_CAR_STOPPED	30.26173	-97.73634	5
austin	HAZARD	HAZARD_ON_SHOULDER_CAR_STOPPED	30.26262	-97.59834	0
austin	HAZARD	HAZARD_ON_SHOULDER_CAR_STOPPED	30.26304	-97.73575	11
austin	HAZARD	HAZARD_ON_SHOULDER_CAR_STOPPED	30.3071	-97.75761	12
austin	HAZARD	HAZARD_ON_SHOULDER_CAR_STOPPED	30.33212	-97.70462	3
austin	HAZARD	HAZARD_ON_SHOULDER_CAR_STOPPED	30.34315	-97.69797	0
austin	HAZARD	HAZARD_ON_SHOULDER_CAR_STOPPED	30.36144	-97.79419	0
austin	HAZARD	HAZARD_ON_SHOULDER_CAR_STOPPED	30.36352	-97.68458	0
austin	JAM		30.22056	-97.73685	0
austin	JAM		30.23403	-97.86912	1
austin	JAM	JAM_HEAVY_TRAFFIC	30.1437	-97.67145	0
austin	JAM	JAM_HEAVY_TRAFFIC	30.15273	-97.67052	0
austin	JAM	JAM_HEAVY_TRAFFIC	30.16696	-97.78285	0
austin	JAM	JAM_HEAVY_TRAFFIC	30.16705	-97.7842	0
austin	JAM	JAM_HEAVY_TRAFFIC	30.2096	-97.75566	0
austin	JAM	JAM_HEAVY_TRAFFIC	30.21822	-97.75533	0
austin	JAM	JAM_HEAVY_TRAFFIC	30.22976	-97.88129	0
austin	JAM	JAM_HEAVY_TRAFFIC	30.23381	-97.68456	0
austin	JAM	JAM_HEAVY_TRAFFIC	30.23544	-97.85578	1
austin	JAM	JAM_HEAVY_TRAFFIC	30.23547	-97.85729	1
austin	JAM	JAM_HEAVY_TRAFFIC	30.26207	-97.73617	0
austin	JAM	JAM_HEAVY_TRAFFIC	30.29506	-97.82753	0
austin	JAM	JAM_HEAVY_TRAFFIC	30.33376	-97.70333	1
austin	JAM	JAM_HEAVY_TRAFFIC	30.34953	-97.79704	0
austin	JAM	JAM_HEAVY_TRAFFIC	30.39679	-97.74612	0
austin	JAM	JAM_HEAVY_TRAFFIC	30.40463	-97.67496	0
austin	JAM	JAM_MODERATE_TRAFFIC	30.19037	-97.87337	0