

CDC Births Data Query in BigQuery

In this query I used the CDC Births Data Summary public dataset. The queries I wrote helped me obtain some answers about which counties in the United States have the most and least births in the years 2016-2018.

SELECT

*

FROM

``bigquery-public-data.sdo_h_cdc_wonder_natality.county_natality``

LIMIT

1000

Query results

[SAVE RESULTS](#) [EXPLORE DATA](#)

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS		EXECUTION GRAPH		PREVIEW	
Row	Year	County_of_Residence	County_of_Residence_FIPS	Births	Ave_Age_of_Mo	Ave_OE_Gestatic	Ave_LMP_Gesta	Ave_Birth_Weigh	Ave_I
1	2018-01-01	Calhoun County, AL	01015	1265	26.67	38.11	38.25	3168.14	
2	2018-01-01	Tulsa County, OK	40143	8933	28.13	38.18	38.25	3243.39	
3	2018-01-01	Carroll County, GA	13045	1540	27.2	38.5	38.5	3253.35	
4	2018-01-01	Saginaw County, MI	26145	2182	27.41	38.75	38.5	3226.9	
5	2018-01-01	Hillsborough County, FL	12057	17126	28.97	38.41	38.5	3230.36	
6	2018-01-01	Lake County, IN	18089	5785	28.12	38.41	38.5	3243.64	
7	2018-01-01	St. Tammany Parish, LA	22103	2932	29.12	38.31	38.5	3263.36	
8	2018-01-01	Osceola County, FL	12097	4437	28.64	38.3	38.5	3231.13	
9	2018-01-01	Sarpy County, NE	31153	2386	29.43	38.3	38.5	3344.03	
10	2018-01-01	Kane County, IL	17089	6337	29.63	38.29	38.5	3288.64	
11	2018-01-01	San Juan County, NM	35045	1444	27.5	38.62	38.5	3236.43	
12	2018-01-01	Douglas County, KS	20045	1116	29.43	38.44	38.5	3277.79	
13	2018-01-01	Denton County, TX	48121	9857	30.03	38.44	38.5	3291.52	

Results per page: 50 1 - 50 of 1000

Using the ORDER BY function, I sorted the data by Births.

SELECT

*

FROM

``bigquery-public-data.sdo_h_cdc_wonder_natality.county_natality``

ORDER BY

Births

LIMIT

10

I filtered the query by using the ASC function but it didn't change.

SELECT

*

FROM

```
`bigquery-public-data.sdo_h_cdc_wonder_natality.county_natality`
```

ORDER BY

Births

ASC

LIMIT

10

Query results

SAVE RESULTS

EXPLORE DATA

JOB INFORMATION

RESULTS

JSON

EXECUTION DETAILS

EXECUTION GRAPH

PREVIEW

Row	Year	County_of_Residence	County_of_Residence_FIPS	Births	Ave_Age_of_Mo	Ave_OE_Gestat	Ave_LMP_Gesta	Ave_Birth_Weig	Ave_Pre
1	2018-01-01	Tompkins County, NY	36109	735	30.49	38.8	38.96	3330.2	
2	2018-01-01	Unidentified Counties, HI	15999	749	29.78	38.61	38.92	3202.4	
3	2017-01-01	Tompkins County, NY	36109	767	30.27	38.89	39.07	3357.22	
4	2016-01-01	Tompkins County, NY	36109	787	30.49	38.92	39.04	3369.37	
5	2018-01-01	Unidentified Counties, MA	25999	802	30.54	39.02	39.05	3402.09	
6	2016-01-01	Unidentified Counties, HI	15999	845	29.18	38.59	38.79	3220.83	
7	2017-01-01	Washington County, RI	44009	852	30.59	38.75	38.99	3372.16	
8	2017-01-01	Unidentified Counties, HI	15999	857	29.29	38.56	38.86	3232.84	
9	2017-01-01	Unidentified Counties, MA	25999	866	30.53	38.97	38.98	3375.15	
10	2018-01-01	Fayette County, GA	13113	867	30.32	38.25	38.17	3233.16	

So, by filtering the data in descending order using the DESC function, I was able to see the top 10 counties with the highest yearly birth counts between 2016 and 2018.

SELECT

*

FROM

```
`bigquery-public-data.sdo_h_cdc_wonder_natality.county_natality`
```

ORDER BY


Births


DESC


LIMIT

10

Query results

 SAVE RESULTS

 EXPLORE DATA



JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS		EXECUTION GRAPH		PREVIEW		
Row	Year	County_of_Residence	County_of_Residence_FIPS	Births	Ave_Age_of_Mgr	Ave_OE_Gestat	Ave_LMP_Gesta	Ave_Birth_Weigh	Ave_Pre	
1	2016-01-01	Los Angeles County, CA	06037	123092	29.9	38.56	38.66	3260.01		
2	2017-01-01	Los Angeles County, CA	06037	116950	30.11	38.56	38.64	3259.04		
3	2018-01-01	Los Angeles County, CA	06037	110271	30.4	38.54	38.63	3260.45		
4	2016-01-01	Harris County, TX	48201	72420	28.52	38.27	38.4	3223.41		
5	2017-01-01	Harris County, TX	48201	68422	28.66	38.24	38.34	3215.85		
6	2018-01-01	Harris County, TX	48201	67095	28.82	38.19	38.32	3203.57		
7	2016-01-01	Cook County, IL	17031	66779	29.64	38.42	38.56	3233.71		
8	2017-01-01	Cook County, IL	17031	64374	29.79	38.43	38.57	3233.49		
9	2018-01-01	Cook County, IL	17031	61797	30.05	38.38	38.51	3230.21		
10	2016-01-01	Unidentified Counties, TX	48999	59168	26.53	38.31	38.44	3246.56		

Next, I modified the query to show the top 10 counties with the highest birth counts for 2018.

SELECT

*

FROM

``bigquery-public-data.sdohc_wonder_natalit.countr_natalit``

WHERE

`Year = '2018-01-01'`

ORDER BY


Births


DESC


LIMIT

10

Query results

 SAVE RESULTS

 EXPLORE DATA



JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS	EXECUTION GRAPH	PREVIEW				
Row	Year	County_of_Residence	County_of_Residence_FIPS	Births	Ave_Age_of_Mgr	Ave_OE_Gestatic	Ave_LMP_Gesta	Ave_Birth_Weigh	Ave_Pre	
1	2018-01-01	Los Angeles County, CA	06037	110271	30.4	38.54	38.63	3260.45		
2	2018-01-01	Harris County, TX	48201	67095	28.82	38.19	38.32	3203.57		
3	2018-01-01	Cook County, IL	17031	61797	30.05	38.38	38.51	3230.21		
4	2018-01-01	Unidentified Counties, TX	48999	56295	26.89	38.26	38.42	3247.91		
5	2018-01-01	Maricopa County, AZ	04013	51854	28.69	38.44	38.53	3281.98		
6	2018-01-01	Unidentified Counties, GA	13999	41000	26.97	38.17	38.38	3197.04		
7	2018-01-01	San Diego County, CA	06073	40070	30.31	38.64	38.69	3300.06		
8	2018-01-01	Kings County, NY	36047	38574	30.39	38.68	38.73	3236.79		
9	2018-01-01	Unidentified Counties, VA	51999	38308	28.39	38.5	38.69	3276.37		
10	2018-01-01	Dallas County, TX	48113	38182	28.48	38.4	38.57	3235.31		