

Tables created in NF_covid_data:

1. City details

The screenshot shows the MySQL Workbench interface with the schema 'NF_covid_data' selected. A query window displays the following SQL command:

```
1 • select * from city_details;
```

The result grid shows the following data:

city_id	city_name
1	Los Angeles
2	Huntsville
3	Birmingham
4	Montgomery
5	Tuscaloosa
6	Alexander City
7	Athens
8	Auburn
9	Enterprise
10	Gadsden
11	Jacksonville
12	Tanner
13	Livingston
14	Andalusia
15	Marion
16	Fairfield
17	Montevallo
18	Florence
19	Boaz
20	Mobile
21	Troy
22	Tuskegee
23	Jasper
24	Anchorage
25	Fairbanks
26	Juneau
27	Tempe

2. County details

The screenshot shows the MySQL Workbench interface with the schema 'NF_covid_data' selected. A query window displays the following SQL command:

```
1 • select * from county_details;
```

The result grid shows the following data:

county_id	county_name
1	Snohomish
2	Cook
3	Orange
4	Los Angeles
5	Marcoposa
6	Santa Clara
7	Suffolk
8	San Francisco
9	Dade
10	San Diego
11	Bexar
12	Douglas
13	Humboldt
14	Sacramento
15	Solano
16	Spokane
17	Salt Lake
18	Marin
19	Napa
20	Sonoma
21	King
22	Washington
23	Alameda
24	Hillsborough
25	Manatee
26	New York City
27	Unknown

3. State details

The screenshot shows the MySQL Workbench interface with the following details:

- Schemas:** The current schema is `covid-analysisGCP`.
- Tables:** The `raw_covid_data` schema is selected, and the `state_details` table is currently being viewed.
- Query Editor:** The SQL query is `select * from state_details;`
- Result Grid:** The results show 27 rows of state information, including state_id and state_name.

state_id	state_name
1	Washington
2	Illinois
3	California
4	Arizona
5	Massachusetts
6	Wisconsin
7	Texas
8	Nebraska
9	Utah
10	Oregon
11	Florida
12	New York
13	Rhode Island
14	Georgia
15	New Hampshire
16	North Carolina
17	New Jersey
18	Nevada
19	Colorado
20	Maryland
21	Tennessee
22	South Carolina
23	Pennsylvania
24	Kentucky
25	Hawaii
26	Indiana
27	Minnesota

4. Date details

The screenshot shows the MySQL Workbench interface with the following details:

- Schemas:** The current schema is `covid-analysisGCP`.
- Tables:** The `raw_covid_data` schema is selected, and the `date_ymd` table is currently being viewed.
- Query Editor:** The SQL query is `select * from date_ymd;`
- Result Grid:** The results show 27 rows of date information, including date_id, year, month, and day.

date_id	year	month	day
1	2020	1	21
2	2020	1	22
3	2020	1	23
4	2020	1	24
5	2020	1	25
6	2020	1	26
7	2020	1	27
8	2020	1	28
9	2020	1	29
10	2020	1	30
11	2020	1	31
12	2020	2	1
13	2020	2	2
14	2020	2	3
15	2020	2	4
16	2020	2	5
17	2020	2	6
18	2020	2	7
19	2020	2	8
20	2020	2	9
21	2020	2	10
22	2020	2	11
23	2020	2	12
24	2020	2	13
25	2020	2	14
26	2020	2	15
27	2020	2	16

5. Nytimes news abstracts

```

1 •  select * from norm_ny_abstract_withIDs;

```

date_id	abstract	keywords	doc_type	material_type	news_desk	abstract_id
102	The police said they had classified the deaths a... [Murders, Attempted Murders and Homicides, 'Hate Crimes']		article	News	Express	1
102	Fiona Apple blows our minds, again.		article	News	Podcasts	2
102	Oprah Winfrey will give a virtual commencement... [Commencement Speeches, 'Colleges and Universities', 'Computers and the Internet', 'Coronavirus (2019-nCoV)', 'Education']		article	News	Express	3
102	Public beaches have become a flashpoint as th... [Coronavirus (2019-nCoV)]		article	briefing	NYTNow	4
102	Trenton Charlson raises the curtain on our solv... [Crossword Puzzles]		article	News	Games	5
102	The project, announced by the C.D.C., will help... [Genetics and Heredity, 'Coronavirus (2019-nCoV)', 'Medicine and Health', 'Research', 'Epidemics', 'Vaccines']		article	News	Investigative	6
102	Corrections that appeared in print on Friday, Ma...		article	News	Correction	7
102	Quotation of the Day for Friday, May 1, 2020.		article	Quote	Summary	8
102	She didn't want to go to Burning Man (or all t... [Love (Emotion), 'Marriages', 'Burning Man Festival']		article	News	Styles	9
102	The latest on stock market and business news d... [United States Economy, 'Coronavirus (2019-nCoV)', 'Stocks and Bonds', 'Standard & Poor's 500-Stock Index']		article	News	Business	10
102	The W.H.O. extends the global health emergenc... [Coronavirus (2019-nCoV), 'Airlines and Airplanes', 'Politics and Government']		article	News	Foreign	11
102	Here's what you need to know.		article	briefing	NYTNow	12
102	Wyatt Morgan Cooper, who is named after the n... [Television, 'Surrogate Motherhood']		article	News	Express	13
102	If college athletes are permitted to cash in on th... [Football (College), 'Basketball (College)', 'College Athletics', 'AMATEUR ATHLETICS']		article	News	Sports	14
102	The governor's moves were in response to th... [Demonstrations, Protests and Riots, 'Coronavirus (2019-nCoV)', 'State Legislatures', 'Quarantines', 'Executive Orders']		article	News	Foreign	15
102	The small-scale events could create a road map... [Tennis, 'Shutdowns (Institutional)', 'Coronavirus (2019-nCoV)']		article	News	National	16
102	A soapy period drama from two creators of 'G... [Television, 'Movies']		article	News	Weekend	18
102	Interpreting lines from 'Leaves of Grass'. A... [Books and Literature]		article	News	BookReview	19
102	An emergency room doctor in Melbourne descri... [Emergency Medical Treatment, 'Coronavirus (2019-nCoV)', 'Hospitals']		article	briefing	Culture	20
102	This word has appeared in three articles on NY...		article	News	Learning	21
102	Twenty percent of the staff at one hospital is qu... [Quarantines, 'Hospitals', 'Coronavirus (2019-nCoV)', 'Afghanistan War (2001-)', 'Epidemics']		article	News	Foreign	22
102	What is this image saying? How does it relate to...		article	News	Learning	23
102	From New York to Los Angeles, tenant groups a... [Real Estate and Housing (Residential), 'Renting and Leasing (Real Estate)', 'Landlords', 'Evictions', 'Unemployment']		article	News	Metro	24
102	Every month, subscription streaming services a... [Television, 'Movies', 'Documentary Films and Programs']		article	News	AtHome	25
102	The city's turbulent history has forged an irre... [Quarantines, 'Coronavirus (2019-nCoV)']		article	News	Foreign	26
102	In this drama from one of the screenwriters of 'A... [Movies']		article	Review	Weekend	27

6. Colleges and Universities survey

```

1 •  select * from norm_ny_US_colleges_univ;

```

state_id	county_id	city_id	ipeds_id	college	cases	cases_2021	notes
3	4	1	0	Los Angeles Community College District	185	0.00	College did not clarify whether data includes du...
49	427	2	100654	Alabama A&M University	41	0.00	
49	42	3	100663	University of Alabama at Birmingham	3123	837.00	Total is known to include one or more cases fro...
49	427	2	100706	University of Alabama in Huntsville	390	180.00	
49	44	4	100724	Alabama State University	2	0.00	
49	273	5	100751	University of Alabama	4527	1166.00	
49	855	6	100760	Central Alabama Community College	49	10.00	
49	251	7	100812	Athens State University	45	10.00	
49	44	4	100830	Auburn University at Montgomery	214	74.00	
49	61	8	100858	Auburn University	2726	551.00	
49	42	3	100937	Birmingham-Southern College	259	45.00	
49	771	9	101143	Enterprise State Community College	72	31.00	
49	955	10	101240	Gadsden State Community College	67	5.00	
49	44	4	101435	Huntingdon College	0	0.00	
49	406	11	101480	Jacksonville State University	229	10.00	
49	251	12	101514	Calhoun Community College	137	53.00	
49	497	13	101587	University of West Alabama	34	4.00	
49	1116	14	101602	Lurleen B. Wallace Community College	19	0.00	
49	490	15	101648	Marion Military Institute	45	19.00	
49	42	16	101675	Miles College	0	0.00	
49	100	17	101709	University of Montevallo	184	44.00	
49	638	18	101879	University of North Alabama	744	256.00	
49	42	3	102049	Samford University	661	181.00	
49	641	19	102076	Snead State Community College	29	10.00	
49	553	20	102094	University of South Alabama	770	263.00	
49	553	20	102234	Spring Hill College	162	38.00	
49	215	21	102368	Troy University	853	104.00	

7. County level

covid-analysisGCP

Administration Schemas

SCHEMAS

NF_covid_data

- Tables
 - city_details
 - county_details
 - date_ymd
 - norm_ny_abstract_withIDs
 - norm_ny_US_colleges_univ
 - norm_ny_US_county_level
 - norm_ny_US_excessDeaths_byAllCauses
 - norm_ny_US_mask_survey
 - norm_twitter_1000_bigrams
 - norm_twitter_1000_terms
 - state_details
- Views
- Stored Procedures
- Functions

raw_covid_data

- Tables
 - ny_abstract_withIDs
 - ny_US_colleges_univ
 - ny_US_county_level
 - ny_US_county_recent
 - ny_US_excessDeaths_byAllCauses
 - ny_US_mask_survey

Object Info Session

Schema: raw_covid_data

```
1 • select * from norm_ny_US_county_level;
```

date_id	county_id	state_id	fips	cases	deaths
1	1	1	53061	1	0
2	1	1	53061	1	0
3	1	1	53061	1	0
4	1	1	53061	1	0
4	2	2	17031	1	0
5	1	1	53061	1	0
5	2	2	17031	1	0
5	3	3	6059	1	0
6	1	1	53061	1	0
6	2	2	17031	1	0
6	3	3	6059	1	0
6	4	3	6037	1	0
6	5	4	4013	1	0
7	1	1	53061	1	0
7	2	2	17031	1	0
7	3	3	6059	1	0
7	4	3	6037	1	0
7	5	4	4013	1	0
8	1	1	53061	1	0
8	2	2	17031	1	0
8	3	3	6059	1	0
8	4	3	6037	1	0
8	5	4	4013	1	0
9	1	1	53061	1	0
9	2	2	17031	1	0
9	3	3	6059	1	0
9	4	3	6037	1	0

norm_ny_US_county_level 7

Apply Revert

8. Excess deaths by all causes

covid-analysisGCP

Administration Schemas

SCHEMAS

NF_covid_data

- Tables
 - city_details
 - county_details
 - date_ymd
 - norm_ny_abstract_withIDs
 - norm_ny_US_colleges_univ
 - norm_ny_US_county_level
 - norm_ny_US_excessDeaths_byAllCauses
 - norm_ny_US_mask_survey
 - norm_twitter_1000_bigrams
 - norm_twitter_1000_terms
 - state_details
- Views
- Stored Procedures
- Functions

raw_covid_data

- Tables
 - ny_abstract_withIDs
 - ny_US_colleges_univ
 - ny_US_county_level
 - ny_US_county_recent
 - ny_US_excessDeaths_byAllCauses
 - ny_US_mask_survey

Object Info Session

Schema: raw_covid_data

```
1 • select * from norm_ny_US_excessDeaths_byAllCauses;
```

country	frequency	start_date_id	end_date_id	year	month	week	deaths	expected_deat...	excess_deaths	baseline
United States	weekly	7	13	2020	2	5	58800	60821	-2021	2015-2019 historical data
United States	weekly	14	20	2020	2	6	59380	60545	-1165	2015-2019 historical data
United States	weekly	21	27	2020	2	7	58789	60206	-1417	2015-2019 historical data
United States	weekly	28	34	2020	2	8	58877	59837	-960	2015-2019 historical data
United States	weekly	35	41	2020	3	9	58273	59440	-167	2015-2019 historical data
United States	weekly	42	48	2020	3	10	59637	59014	623	2015-2019 historical data
United States	weekly	49	55	2020	3	11	58636	58558	78	2015-2019 historical data
United States	weekly	56	62	2020	3	12	59191	58089	1122	2015-2019 historical data
United States	weekly	63	69	2020	3	13	62971	57547	5424	2015-2019 historical data
United States	weekly	70	76	2020	4	14	72276	56999	15277	2015-2019 historical data
United States	weekly	77	83	2020	4	15	79058	56441	22617	2015-2019 historical data
United States	weekly	84	90	2020	4	16	76757	55891	20866	2015-2019 historical data
United States	weekly	91	97	2020	4	17	73850	55366	18484	2015-2019 historical data
United States	weekly	98	104	2020	5	18	69268	54884	14384	2015-2019 historical data
United States	weekly	105	111	2020	5	19	66764	54459	12305	2015-2019 historical data
United States	weekly	112	118	2020	5	20	64437	54097	10340	2015-2019 historical data
United States	weekly	119	125	2020	5	21	61562	53791	7771	2015-2019 historical data
United States	weekly	126	132	2020	5	22	59614	53538	6076	2015-2019 historical data
United States	weekly	133	139	2020	6	23	58839	53333	5506	2015-2019 historical data
United States	weekly	140	146	2020	6	24	57965	53170	4795	2015-2019 historical data
United States	weekly	147	153	2020	6	25	57915	53045	4870	2015-2019 historical data
United States	weekly	154	160	2020	6	26	58419	52947	5472	2015-2019 historical data
United States	weekly	161	167	2020	7	27	59763	52865	6898	2015-2019 historical data
United States	weekly	168	174	2020	7	28	61837	52788	9049	2015-2019 historical data
United States	weekly	175	181	2020	7	29	63417	52705	10712	2015-2019 historical data
United States	weekly	182	188	2020	7	30	64488	52604	11884	2015-2019 historical data
United States	weekly	189	195	2020	8	31	64479	52482	11997	2015-2019 historical data

norm_ny_US_excessDeaths_byAllCauses 8

Apply Revert

9. Mask survey

covid-analysisGCP

Administration Schemas

SCHEMAS

NF_covid_data

- Tables
 - city_details
 - county_details
 - date_ymd
 - norm_ny_abstract_withIDs
 - norm_ny_US_colleges_univ
 - norm_ny_US_county_level
 - norm_ny_US_excessDeaths_byAllCauses
 - norm_ny_US_mask_survey
 - norm_twitter_1000_bigrams
 - norm_twitter_1000_terms
 - state_details
- Views
- Stored Procedures
- Functions

raw_covid_data

- Tables
 - ny_abstract_withIDs
 - ny_US_colleges_univ
 - ny_US_county_level
 - ny_US_county_recent
 - ny_US_excessDeaths_byAllCauses
 - ny_US_mask_survey

Object Info Session

Schema: raw_covid_data

```
1 • select * from norm_ny_US_mask_survey;
```

Result Grid

COUNTYFP	NEVER	RARELY	SOMETIMES	FREQUENTLY	ALWAYS
1001	0.05300	0.07400	0.13400	0.29500	0.44400
1003	0.08300	0.05900	0.09800	0.32300	0.43600
1005	0.06700	0.12100	0.12000	0.20100	0.49100
1007	0.02000	0.03400	0.09600	0.27800	0.57200
1009	0.05300	0.11400	0.18000	0.19400	0.45900
1011	0.03100	0.04000	0.14400	0.28600	0.50000
1013	0.10200	0.05300	0.25700	0.13700	0.45100
1015	0.15200	0.10800	0.13000	0.16700	0.44200
1017	0.11700	0.03700	0.15000	0.13600	0.56000
1019	0.13500	0.02700	0.16100	0.15800	0.52000
1021	0.06000	0.07000	0.05800	0.19400	0.61800
1023	0.04900	0.03800	0.12600	0.21900	0.56800
1025	0.04900	0.08800	0.16400	0.26800	0.43000
1027	0.14800	0.15800	0.19500	0.16900	0.32900
1029	0.15100	0.12500	0.13800	0.21700	0.36800
1031	0.10100	0.15200	0.09400	0.18600	0.46600
1033	0.08200	0.09600	0.15200	0.15900	0.51000
1035	0.09900	0.05200	0.25900	0.19200	0.39900
1037	0.05500	0.13100	0.16700	0.26300	0.38400
1039	0.18700	0.12800	0.12900	0.20100	0.35600
1041	0.06000	0.09100	0.19900	0.23300	0.41600
1043	0.13000	0.02400	0.24900	0.21700	0.37900
1045	0.08900	0.11300	0.11800	0.22000	0.46000
1047	0.09500	0.10000	0.15900	0.12200	0.52400
1049	0.08400	0.05100	0.10600	0.17900	0.58000
1051	0.04200	0.09500	0.12700	0.25200	0.48500
1053	0.11400	0.02600	0.18800	0.28500	0.38700

norm_ny_US_mask_survey 9

Apply Revert

10. Twitter 1000 bigrams

covid-analysisGCP

Administration Schemas

SCHEMAS

NF_covid_data

- Tables
 - city_details
 - county_details
 - date_ymd
 - norm_ny_abstract_withIDs
 - norm_ny_US_colleges_univ
 - norm_ny_US_county_level
 - norm_ny_US_excessDeaths_byAllCauses
 - norm_ny_US_mask_survey
 - norm_twitter_1000_bigrams
 - norm_twitter_1000_terms
 - state_details
- Views
- Stored Procedures
- Functions

raw_covid_data

- Tables
 - ny_abstract_withIDs
 - ny_US_colleges_univ
 - ny_US_county_level
 - ny_US_county_recent
 - ny_US_excessDeaths_byAllCauses
 - ny_US_mask_survey

Object Info Session

Schema: raw_covid_data

```
1 • select * from norm_twitter_1000_bigrams;
```

Result Grid

term	count	date_id
> 000 cases	202	62
000 people	257	62
03 2020	420	62
10,000	301	62
10 days	263	62
100,000	226	62
12 weeks	206	62
13,000	227	62
14 days	315	62
14 hour	173	62
19 case	249	62
19 cases	1351	62
19 coronavirus	733	62
19 covid_19	403	62
19 crisis	694	62
19 death	203	62
19 di	727	62
19 mass	752	62
19 outbreak	785	62
19 pandemic	1481	62
19 patients	413	62
19 positive	195	62
19 response	373	62
19 sign	308	62
19 situation	204	62
19 spread	197	62
19 test	510	62

norm_twitter_1000_bigrams 10

Apply Revert

11. Twitter 1000 terms

The screenshot shows the MySQL Workbench interface with the database 'covid-analysisGCP' selected. The left sidebar displays the 'Schemas' tree, where the 'raw_covid_data' schema is expanded to show tables like 'city_details', 'county_details', and 'norm_twitter_1000_terms'. A SQL editor window at the top contains the query: `select * from norm_twitter_1000_terms;`. Below it is a 'Result Grid' showing the results of the query. The grid has columns 'term', 'count', and 'date_id'. The data includes terms like 'ai', 'aid', 'air', 'aku', 'all', 'allah', 'almost', 'already', etc., with counts ranging from 959 to 1804.

12. County and FIPS mapping

This screenshot shows the MySQL Workbench interface with the same database setup. The 'county_fips_mapping' table is selected in the schema tree. A SQL editor window at the top contains the query: `select * from county_fips_mapping;`. Below it is a 'Result Grid' showing the results of the query. The grid has columns 'countyid', 'fips', and 'county/fip'. The data consists of numerous rows where 'countyid' and 'fips' are both 1001, indicating a many-to-one mapping where multiple county IDs map to a single FIPS code.