Tables description:

| Field | Type | Null | Key | Default | Extra |

+-------------------+--------------+------+-----+---------+-------+

| Year | int | YES | MUL | NULL | |

| RGDP | decimal(5,3) | YES | | NULL | |

| NGDP | decimal(7,2) | YES | | NULL | |

| GDP\_pc | decimal(5,3) | YES | | NULL | |

| Inflation | decimal(5,3) | YES | | NULL | |

| Unemployment\_Rate | decimal(5,3) | YES | | NULL | |

| NET\_LB | decimal(5,3) | YES | | NULL | |

| Account\_Balance | decimal(5,3) | YES | | NULL | |

+-------------------+--------------+------+-----+---------+-------+

8 rows in set (0.05 sec)

Example of table after being filled:

mysql> select \* from Australia limit 5;

+------+--------+---------+--------+-----------+-------------------+--------+-----------------+

| Year | RGDP | NGDP | GDP\_pc | Inflation | Unemployment\_Rate | NET\_LB | Account\_Balance |

+------+--------+---------+--------+-----------+-------------------+--------+-----------------+

| 1999 | 4.459 | 526.96 | 3.279 | 1.767 | 6.867 | 0.667 | -5.484 |

| 2000 | 3.027 | 555.05 | 1.833 | 5.789 | 6.292 | 1.254 | -4.102 |

| 2001 | 2.612 | 582.04 | 1.313 | 3.146 | 6.775 | -0.030 | -2.253 |

| 2002 | 4.136 | 615.70 | 2.973 | 3.050 | 6.358 | 0.193 | -3.814 |

| 2003 | 2.784 | 644.59 | 1.634 | 2.445 | 5.942 | 1.054 | -5.355 |

mysql> select \* from lao;

+------+-------+-------+--------+-----------+-------------------+--------+-----------------+

| Year | RGDP | NGDP | GDP\_pc | Inflation | Unemployment\_Rate | NET\_LB | Account\_Balance |

+------+-------+-------+--------+-----------+-------------------+--------+-----------------+

| 1999 | 4.028 | 9.87 | 2.225 | 86.656 | 0.000 | 0.000 | -6.805 |

| 2000 | 6.429 | 10.74 | 4.662 | 10.560 | 0.000 | -3.576 | 1.459 |

| 2001 | 4.772 | 11.50 | 3.109 | 7.523 | 0.000 | -3.683 | -12.260 |

| 2002 | 6.809 | 12.47 | 5.182 | 15.189 | 0.000 | -2.850 | -9.340 |

| 2003 | 6.179 | 13.49 | 4.591 | 12.624 | 0.000 | -3.885 | -11.595 |

| 2004 | 7.187 | 14.85 | 5.567 | 8.663 | 0.000 | -1.810 | -13.886 |

| 2005 | 6.940 | 16.37 | 5.276 | 8.780 | 0.000 | -2.541 | -15.821 |

| 2006 | 8.954 | 18.38 | 7.194 | 4.546 | 0.000 | -1.482 | -9.308 |

| 2007 | 7.851 | 20.35 | 6.058 | 5.738 | 0.000 | -1.123 | -10.387 |

| 2008 | 7.822 | 22.37 | 6.009 | 3.167 | 0.000 | -1.858 | -15.602 |

| 2009 | 7.373 | 24.21 | 5.592 | 3.920 | 0.000 | -3.096 | -17.770 |

| 2010 | 8.018 | 26.45 | 6.280 | 5.774 | 0.000 | -1.469 | -16.486 |

| 2011 | 7.986 | 29.16 | 6.312 | 7.701 | 0.000 | -1.429 | -15.265 |

| 2012 | 7.805 | 32.04 | 6.183 | 4.733 | 0.000 | -2.343 | -21.317 |

| 2013 | 8.026 | 35.22 | 6.428 | 6.649 | 0.000 | -4.031 | -26.506 |

| 2014 | 7.612 | 38.60 | 6.016 | 2.399 | 0.000 | -3.132 | -23.273 |

| 2015 | 7.270 | 41.84 | 5.656 | 0.897 | 0.000 | -5.570 | -22.421 |

| 2016 | 7.023 | 45.24 | 5.387 | 2.487 | 0.000 | -5.060 | -11.009 |

| 2017 | 6.832 | 49.24 | 5.185 | 0.148 | 0.000 | -5.487 | -10.638 |

| 2018 | 6.308 | 53.62 | 4.675 | 1.482 | 0.000 | -4.663 | -11.974 |

| 2019 | 4.720 | 57.13 | 3.234 | 6.287 | 0.000 | -5.147 | -7.234 |

| 2020 | 0.723 | 57.91 | -0.707 | 6.300 | 0.000 | -6.233 | -10.890 |

| 2021 | 5.601 | 62.35 | 4.102 | 3.500 | 0.000 | -5.522 | -9.192 |

+------+-------+-------+--------+-----------+-------------------+--------+-----------------+

23 rows in set (0.00 sec)

“Null” values had to be exported as 0. Therefore, here are some queries to transform them again to “Null”. This is to avoid wrong statistics. Another option is to replace them by the mean value of the database. Chose the option best suited to your needs.

mysql> UPDATE lao SET Unemployment\_Rate = NULL WHERE Unemployment\_Rate = 0;

Query OK, 23 rows affected (0.12 sec)

Rows matched: 23 Changed: 23 Warnings: 0

mysql> UPDATE lao SET Net\_LB = NULL WHERE Net\_LB = 0;

Query OK, 1 row affected (0.12 sec)

Rows matched: 1 Changed: 1 Warnings: 0

The result should be the following:

mysql> select \* from lao;

+------+-------+-------+--------+-----------+-------------------+--------+-----------------+

| Year | RGDP | NGDP | GDP\_pc | Inflation | Unemployment\_Rate | NET\_LB | Account\_Balance |

+------+-------+-------+--------+-----------+-------------------+--------+-----------------+

| 1999 | 4.028 | 9.87 | 2.225 | 86.656 | NULL | NULL | -6.805 |

| 2000 | 6.429 | 10.74 | 4.662 | 10.560 | NULL | -3.576 | 1.459 |

| 2001 | 4.772 | 11.50 | 3.109 | 7.523 | NULL | -3.683 | -12.260 |

| 2002 | 6.809 | 12.47 | 5.182 | 15.189 | NULL | -2.850 | -9.340 |

| 2003 | 6.179 | 13.49 | 4.591 | 12.624 | NULL | -3.885 | -11.595 |

| 2004 | 7.187 | 14.85 | 5.567 | 8.663 | NULL | -1.810 | -13.886 |

| 2005 | 6.940 | 16.37 | 5.276 | 8.780 | NULL | -2.541 | -15.821 |

| 2006 | 8.954 | 18.38 | 7.194 | 4.546 | NULL | -1.482 | -9.308 |

| 2007 | 7.851 | 20.35 | 6.058 | 5.738 | NULL | -1.123 | -10.387 |

| 2008 | 7.822 | 22.37 | 6.009 | 3.167 | NULL | -1.858 | -15.602 |

| 2009 | 7.373 | 24.21 | 5.592 | 3.920 | NULL | -3.096 | -17.770 |

| 2010 | 8.018 | 26.45 | 6.280 | 5.774 | NULL | -1.469 | -16.486 |

| 2011 | 7.986 | 29.16 | 6.312 | 7.701 | NULL | -1.429 | -15.265 |

| 2012 | 7.805 | 32.04 | 6.183 | 4.733 | NULL | -2.343 | -21.317 |

| 2013 | 8.026 | 35.22 | 6.428 | 6.649 | NULL | -4.031 | -26.506 |

| 2014 | 7.612 | 38.60 | 6.016 | 2.399 | NULL | -3.132 | -23.273 |

| 2015 | 7.270 | 41.84 | 5.656 | 0.897 | NULL | -5.570 | -22.421 |

| 2016 | 7.023 | 45.24 | 5.387 | 2.487 | NULL | -5.060 | -11.009 |

| 2017 | 6.832 | 49.24 | 5.185 | 0.148 | NULL | -5.487 | -10.638 |

| 2018 | 6.308 | 53.62 | 4.675 | 1.482 | NULL | -4.663 | -11.974 |

| 2019 | 4.720 | 57.13 | 3.234 | 6.287 | NULL | -5.147 | -7.234 |

| 2020 | 0.723 | 57.91 | -0.707 | 6.300 | NULL | -6.233 | -10.890 |

| 2021 | 5.601 | 62.35 | 4.102 | 3.500 | NULL | -5.522 | -9.192 |

+------+-------+-------+--------+-----------+-------------------+--------+-----------------+

23 rows in set (0.00 sec)

Repeat the process for each table. Be aware that there is 1 NULL value in the ‘Inflation’ column from Japan.

**Creating the Summary Table:**

mysql> CREATE TABLE summary(

-> Country VARCHAR(15) NOT NULL PRIMARY KEY,

-> Years\_count INT(2),

-> RGDP\_sum DECIMAL(8,4),

-> NGDP\_sum DECIMAL(10,3),

-> GDP\_pc\_sum DECIMAL(6,3),

-> Inflation\_sum DECIMAL(6,3),

-> Unemployment\_sum DECIMAL(6,3),

-> Net\_LB\_sum DECIMAL(6,3),

-> Account\_Balance\_sum DECIMAL(6,3)

-> );

Query OK, 0 rows affected, 1 warning (1.28 sec)

mysql> INSERT INTO summary VALUES('Australia', (SELECT COUNT(Year) FROM australia), (SELECT SUM(RGDP) FROM australia), (SELECT SUM(NGDP) FROM australia), (SELECT SUM(GDP\_pc) FROM australia), (SELECT SUM(Inflation) FROM australia), (SELE

CT SUM(Unemployment\_Rate) FROM australia), (SELECT SUM(Net\_LB) FROM australia), (SELECT SUM(Account\_Balance) FROM aust

ralia));

Query OK, 1 row affected (0.17 sec)

mysql> SELECT \* FROM summary;

+-----------+-------------+----------+-----------+------------+---------------+------------------+------------+-------

--------------+

| Country | Years\_count | RGDP\_sum | NGDP\_sum | GDP\_pc\_sum | Inflation\_sum | Unemployment\_sum | Net\_LB\_sum | Accoun

t\_Balance\_sum |

+-----------+-------------+----------+-----------+------------+---------------+------------------+------------+-------

--------------+

| Australia | 23 | 61.1220 | 21754.560 | 26.195 | 57.603 | 133.237 | -43.883 |

-87.178 |

+-----------+-------------+----------+-----------+------------+---------------+------------------+------------+-------

--------------+

1 row in set (0.00 sec)

mysql> INSERT INTO summary VALUES('Brunei', (SELECT COUNT(Year) FROM brunei), (SELECT SUM(RGDP) FROM brunei), (SELECT

SUM(NGDP) FROM brunei), (SELECT SUM(GDP\_pc) FROM brunei), (SELECT SUM(Inflation) FROM brunei), (SELECT SUM(Unemploymen

t\_Rate) FROM brunei), (SELECT SUM(Net\_LB) FROM brunei), (SELECT SUM(Account\_Balance) FROM brunei));

Query OK, 1 row affected (0.12 sec)

mysql> INSERT INTO summary VALUES('Cambodia', (SELECT COUNT(Year) FROM cambodia), (SELECT SUM(RGDP) FROM cambodia), (S

ELECT SUM(NGDP) FROM cambodia), (SELECT SUM(GDP\_pc) FROM cambodia), (SELECT SUM(Inflation) FROM cambodia), (SELECT SUM

(Unemployment\_Rate) FROM cambodia), (SELECT SUM(Net\_LB) FROM cambodia), (SELECT SUM(Account\_Balance) FROM cambodia));

Query OK, 1 row affected (0.13 sec)

mysql> INSERT INTO summary VALUES('China', (SELECT COUNT(Year) FROM china), (SELECT SUM(RGDP) FROM china), (SELECT SUM

(NGDP) FROM china), (SELECT SUM(GDP\_pc) FROM china), (SELECT SUM(Inflation) FROM china), (SELECT SUM(Unemployment\_Rate

) FROM china), (SELECT SUM(Net\_LB) FROM china), (SELECT SUM(Account\_Balance) FROM china));

Query OK, 1 row affected (0.17 sec)

mysql> INSERT INTO summary VALUES('Indonesia', (SELECT COUNT(Year) FROM indonesia), (SELECT SUM(RGDP) FROM indonesia),

(SELECT SUM(NGDP) FROM indonesia), (SELECT SUM(GDP\_pc) FROM indonesia), (SELECT SUM(Inflation) FROM indonesia), (SELE

CT SUM(Unemployment\_Rate) FROM indonesia), (SELECT SUM(Net\_LB) FROM indonesia), (SELECT SUM(Account\_Balance) FROM indo

nesia));

Query OK, 1 row affected (0.42 sec)

mysql> INSERT INTO summary VALUES('Japan', (SELECT COUNT(Year) FROM japan), (SELECT SUM(RGDP) FROM japan), (SELECT SUM

(NGDP) FROM japan), (SELECT SUM(GDP\_pc) FROM japan), (SELECT SUM(Inflation) FROM japan), (SELECT SUM(Unemployment\_Rate

) FROM japan), (SELECT SUM(Net\_LB) FROM japan), (SELECT SUM(Account\_Balance) FROM japan));

Query OK, 1 row affected (0.18 sec)

mysql> INSERT INTO summary VALUES('Lao', (SELECT COUNT(Year) FROM lao), (SELECT SUM(RGDP) FROM lao), (SELECT SUM(NGDP)

FROM lao), (SELECT SUM(GDP\_pc) FROM lao), (SELECT SUM(Inflation) FROM lao), (SELECT SUM(Unemployment\_Rate) FROM lao),

(SELECT SUM(Net\_LB) FROM lao), (SELECT SUM(Account\_Balance) FROM lao));

Query OK, 1 row affected (0.11 sec)

mysql> INSERT INTO summary VALUES('Malaysia', (SELECT COUNT(Year) FROM malaysia), (SELECT SUM(RGDP) FROM malaysia), (S

ELECT SUM(NGDP) FROM malaysia), (SELECT SUM(GDP\_pc) FROM malaysia), (SELECT SUM(Inflation) FROM malaysia), (SELECT SUM

(Unemployment\_Rate) FROM malaysia), (SELECT SUM(Net\_LB) FROM malaysia), (SELECT SUM(Account\_Balance) FROM malaysia));

Query OK, 1 row affected (0.14 sec)

mysql> INSERT INTO summary VALUES('Myanmar', (SELECT COUNT(Year) FROM myanmar), (SELECT SUM(RGDP) FROM myanmar), (SELE

CT SUM(NGDP) FROM myanmar), (SELECT SUM(GDP\_pc) FROM myanmar), (SELECT SUM(Inflation) FROM myanmar), (SELECT SUM(Unemp

loyment\_Rate) FROM myanmar), (SELECT SUM(Net\_LB) FROM myanmar), (SELECT SUM(Account\_Balance) FROM myanmar));

Query OK, 1 row affected (0.12 sec)

mysql> INSERT INTO summary VALUES('New\_Zeland', (SELECT COUNT(Year) FROM new\_zeland), (SELECT SUM(RGDP) FROM new\_zelan

d), (SELECT SUM(NGDP) FROM new\_zeland), (SELECT SUM(GDP\_pc) FROM new\_zeland), (SELECT SUM(Inflation) FROM new\_zeland),

(SELECT SUM(Unemployment\_Rate) FROM new\_zeland), (SELECT SUM(Net\_LB) FROM new\_zeland), (SELECT SUM(Account\_Balance) F

ROM new\_zeland));

Query OK, 1 row affected (0.42 sec)

mysql> INSERT INTO summary VALUES('Philipines', (SELECT COUNT(Year) FROM philipines), (SELECT SUM(RGDP) FROM philipine

s), (SELECT SUM(NGDP) FROM philipines), (SELECT SUM(GDP\_pc) FROM philipines), (SELECT SUM(Inflation) FROM philipines),

(SELECT SUM(Unemployment\_Rate) FROM philipines), (SELECT SUM(Net\_LB) FROM philipines), (SELECT SUM(Account\_Balance) F

ROM philipines));

Query OK, 1 row affected (0.11 sec)

mysql> INSERT INTO summary VALUES('Singapore', (SELECT COUNT(Year) FROM singapore), (SELECT SUM(RGDP) FROM singapore),

(SELECT SUM(NGDP) FROM singapore), (SELECT SUM(GDP\_pc) FROM singapore), (SELECT SUM(Inflation) FROM singapore), (SELE

CT SUM(Unemployment\_Rate) FROM singapore), (SELECT SUM(Net\_LB) FROM singapore), (SELECT SUM(Account\_Balance) FROM sing

apore));

Query OK, 1 row affected (0.18 sec)

mysql> INSERT INTO summary VALUES('Thailand', (SELECT COUNT(Year) FROM thailand), (SELECT SUM(RGDP) FROM thailand), (S

ELECT SUM(NGDP) FROM thailand), (SELECT SUM(GDP\_pc) FROM thailand), (SELECT SUM(Inflation) FROM thailand), (SELECT SUM

(Unemployment\_Rate) FROM thailand), (SELECT SUM(Net\_LB) FROM thailand), (SELECT SUM(Account\_Balance) FROM thailand));

Query OK, 1 row affected (0.16 sec)

mysql> INSERT INTO summary VALUES('Vietnam', (SELECT COUNT(Year) FROM vietnam), (SELECT SUM(RGDP) FROM vietnam), (SELE

CT SUM(NGDP) FROM vietnam), (SELECT SUM(GDP\_pc) FROM vietnam), (SELECT SUM(Inflation) FROM vietnam), (SELECT SUM(Unemp

loyment\_Rate) FROM vietnam), (SELECT SUM(Net\_LB) FROM vietnam), (SELECT SUM(Account\_Balance) FROM vietnam));

Query OK, 1 row affected (0.42 sec)

mysql> select \* from summary;

+------------+-------------+----------+------------+------------+---------------+------------------+------------+-----

----------------+

| Country | Years\_count | RGDP\_sum | NGDP\_sum | GDP\_pc\_sum | Inflation\_sum | Unemployment\_sum | Net\_LB\_sum | Acco

unt\_Balance\_sum |

+------------+-------------+----------+------------+------------+---------------+------------------+------------+-----

----------------+

| Australia | 23 | 61.1220 | 21754.560 | 26.195 | 57.603 | 133.237 | -43.883 |

-87.178 |

| Brunei | 23 | 26.9450 | 696.890 | -10.389 | 7.157 | 95.164 | 36.143 |

650.868 |

| Cambodia | 23 | 172.0700 | 935.490 | 132.090 | 84.270 | NULL | -55.429 |

-170.329 |

| China | 23 | 198.2910 | 322231.640 | 185.162 | 50.436 | 91.050 | -63.495 |

72.697 |

| Indonesia | 23 | 116.4250 | 50478.280 | 85.041 | 141.321 | 169.460 | -36.706 |

1.781 |

| Japan | 23 | 15.6980 | 104717.250 | 16.540 | 1.971 | 92.140 | -136.052 |

65.061 |

| Lao | 23 | 152.2680 | 703.400 | 114.216 | 215.723 | NULL | -75.990 |

-307.520 |

| Malaysia | 23 | 114.0260 | 14895.000 | 72.109 | 48.145 | 78.200 | -81.559 |

182.593 |

| Myanmar | 23 | 198.2500 | 4360.130 | 177.826 | 232.535 | 92.000 | -83.475 |

-51.323 |

| New\_Zeland | 23 | 62.0370 | 3283.050 | 33.475 | 46.083 | 122.962 | 3.406 |

-86.923 |

| Philipines | 23 | 118.8670 | 13440.420 | 77.783 | 92.504 | 182.675 | -36.146 |

22.416 |

| Singapore | 23 | 107.6730 | 8508.390 | 66.697 | 32.818 | 57.475 | 80.569 |

423.696 |

| Thailand | 23 | 83.5480 | 20757.630 | 71.951 | 39.987 | 29.069 | -21.096 |

96.446 |

| Vietnam | 23 | 148.1070 | 12626.040 | 121.188 | 138.585 | 88.533 | -63.211 |

-6.302 |

+------------+-------------+----------+------------+------------+---------------+------------------+------------+-----

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14 rows in set (0.00 sec)

mysql>