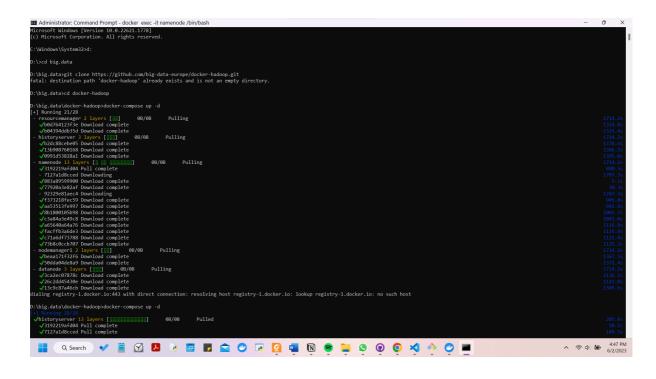
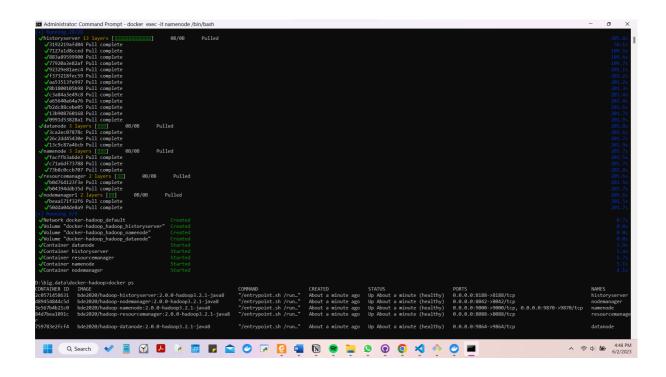
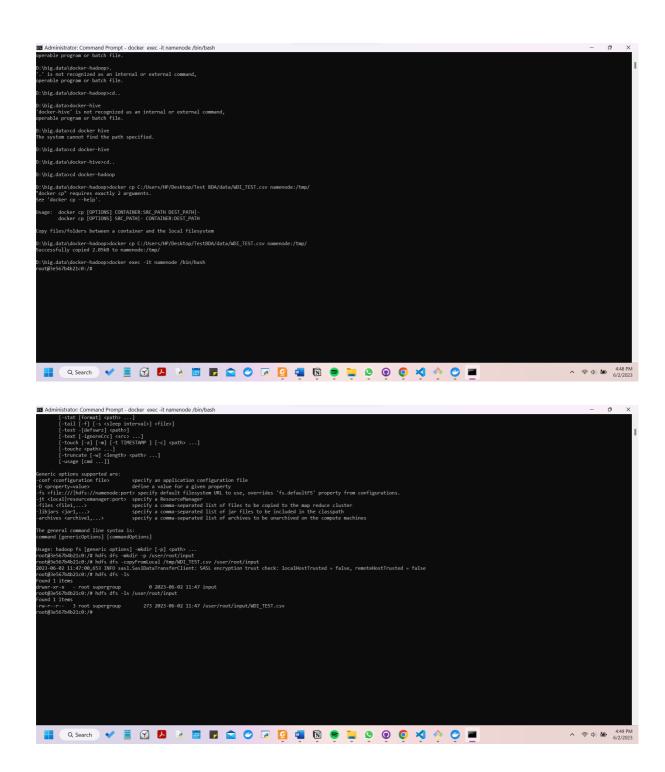
FINAL BDA Project - Sarah Khalid 27258

Hadoop Container





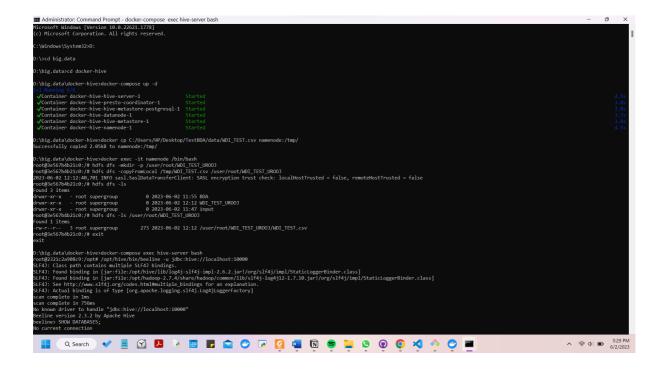


```
American continue supported are:
- conf (configuration file)
- conf (configuration file)
- conf (configuration file)
- conf (configuration file)
- configuration file)
- configuration file
- configur
```

There is a folder called BDA inside the HDFS root directory

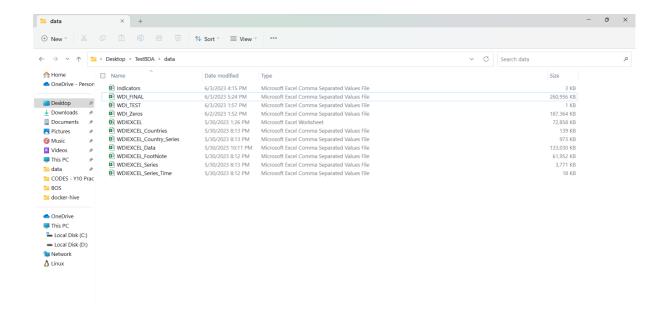
There is a folder called input inside the HDFS root directory

Hive Container



```
## Administrator Command Prompt - docker-compose osec hive-server bash contests with 150 pt. 1 pt. 1
```

Datasets



COPY CSV INTO NAMENODE TMP DIRECTORY

>docker cp C:/Users/HP/Desktop/TestBDA/data/WDI_TEST.csv e00a03940e2d995f6a8d5805e500f5522155b8d80acb8189912eb28f28ef11e3:/tmp/

BASH INTO NAMENODE

docker exec -it e00a03940e2d995f6a8d5805e500f5522155b8d80acb8189912eb28f28ef11e3 /bin/bash

CREATE A DIRECTORY IN HDFS

hdfs dfs -mkdir -p /user/root/input

CHECK ALL DIRECTORIES IN HDFS

hdfs dfs -ls

GO TO THE DIRECTORY IN HDFS

hdfs dfs -mkdir -p /user/root/NEW_TEST_BDA

COPY FROM NAMENODE TMP DIRECTORY TO THE DIRECTORY IN HDFS

hdfs dfs -copyFromLocal /tmp/WDI_TEST.csv /user/root/NEW_TEST_BDA

CHECK IF THE FILE WAS COPIED

hdfs dfs -ls

hdfs dfs -ls /user/root/NEW_TEST_BDA

BASH INTO THE HIVE SERVER

docker-compose exec hive-server bash

CONNECT TO BEELINE

/opt/hive/bin/beeline -u jdbc:hive2://localhost:10000

CREATE DATABASE

USE DATABASE

CREATE TESTING TABLES

create table test2(country_name string, indicator string, amount decimal)ROW
FORMAT DELIMITED> FIELDS TERMINATED BY ','
> FIELDS TERMINATED BY ,
> STORED AS TEXTFILE> LOCATION '/user/root/NEW_TEST_BDA';
create table WDI_DATA(Country_name string, Country_Code string, Indicator String, Indicator_code string , Year BIGINT, value decimal(40,10))> ROW FORMAT DELIMITED> FIELDS TERMINATED BY ','> STORED AS TEXTFILE> LOCATION '/user/root/NEW_TEST_BDA';
COPY THE CSV FROM THE HDFS DIRECTORY TO THE TEST TABLE
LOAD DATA INPATH '/user/root/NEW_TEST_BDA/WDI_TEST.csv' INTO TABLE TEST;
CHECK IF THE RECORDS WERE INSERTED
SELECT * FROM TEST;
FINAL TABLES
create table WDI_FINAL(Country_Code string,Indicator_code string , Year BIGINT, value decimal(38,10))
ROW FORMAT DELIMITED
> FIELDS TERMINATED BY ','
> STORED AS TEXTFILE
> LOCATION '/user/root/NEW_TEST_BDA';
create table Countries(Country_code string, Country_Name string,)
> ROW FORMAT DELIMITED
> FIELDS TERMINATED BY ','
> STORED AS TEXTFILE> LOCATION '/user/root/NFW_TEST_BDA'

```
create table Indicators(Indicator_code string, Indicator_name string)
......> ROW FORMAT DELIMITED
.....> FIELDS TERMINATED BY ','
.....> STORED AS TEXTFILE
.....> LOCATION '/user/root/NEW_TEST_BDA';

create table Regions(Country_code string, Region string)
.....> ROW FORMAT DELIMITED
.....> FIELDS TERMINATED BY ','
.....> STORED AS TEXTFILE
....> LOCATION '/user/root/NEW_TEST_BDA';
```

Databases

set hive.cli.print.header=200;

WDI - TABLE = TEST (3 ROWS) - HDFS DIRECTORY = NEW_TEST_BDA
WDI - TABLE = WDI_DATA (1.8 GB) - HDFS DIRECTORY = NEW_TEST_BDA

RESULTS OF QUERIES

Query: Population, total SP.POP.TOTL

```
rows selected (1.325 seconds)
: jdbc:hive2://localhost:10000> SELECT
                                            wdi_final.country_code,
                                            wdi_final.indicator_code
                                            SUM(wdi_final.value / 1000000) AS sum_value
                 . . . . . . . . . . WHERE
                                            ("ddi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'SP.POP.TOTL'</pre>
                    . . . . . . . GROUP BY
                                           wdi_final.country_code,
wdi_final.indicator_code
                 · · · · · · · · · ORDER BY
                                           sum_value DESC;
ARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution e
wdi_final.country_code | wdi_final.indicator_code | sum_value
                                SP.POP.TOTL
SP.POP.TOTL
IND
                                                                    27380.542051
                                                                    6800.393419
USA
PAK
                                SP.POP.TOTL
                                                                    4276.147235
                                                                    3296.172196
                                SP.POP.TOTL
                                                                    3167.178372
RUS
                                SP.POP.TOTL
JPN
                                                                    2801.482593
                                                                    155.497329
```

Query: Population, female SP.POP.TOTL.FE.IN

```
wdi_final.country_code,
wdi_final.indicator_code,
                                                        SUM(wdi_final.value / 1000000) AS sum_value
                                             .> FROM
                                                       wdi_final
                       . . . . . . . . . WHERE
                                                       (Wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'SP.POP.TOTL.FE.IN'</pre>
                                             .> GROUP BY
                                             wdi_final.country_code,wdi_final.indicator_codeORDER BY
                                                        sum_value DESC;
ARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine
 wdi_final.country_code | wdi_final.indicator_code | sum_value
 CHN
                                         SP.POP.TOTL.FE.IN
                                         SP.POP.TOTL.FE.IN
SP.POP.TOTL.FE.IN
SP.POP.TOTL.FE.IN
SP.POP.TOTL.FE.IN
SP.POP.TOTL.FE.IN
SP.POP.TOTL.FE.IN
SP.POP.TOTL.FE.IN
SP.POP.TOTL.FE.IN
                                                                                      13225.484117
3443.730773
2085.632046
 IND
 USA
 RUS
                                                                                      1697.647000
1644.151003
 BGD
                                         SP.POP.TOTL.FE.IN
                                                                                      45.457716
 rows selected (2.444 seconds)
: jdbc:hive2://localhost:10000>
```

Conclusion:

Query: Population, male SP.POP.TOTL.MA.IN

```
rows selected (2.444 seconds)
jdbc:hive2://localhost:10000> SELECT
                                               wdi_final.country_code,
wdi_final.indicator_code,
SUM(wdi_final.value / 1000000) AS sum_value
                                                wdi_final
        . . . . . . . . . . . . . . WHERE
                                               (Wdi_final.year >= 2000 AND wdi_final.year <= 2022)

AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')

AND wdi_final.indicator_code = 'SP.POP.TOTL.MA.IN'
           . . . . . . . . . . . . GROUP BY
           sum_value DESC;
ARRNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engi
 wdi_final.country_code | wdi_final.indicator_code |
 CHN
                                   SP.POP.TOTL.MA.IN
                                                                         15120.144663
                                   SP.POP.TOTL.MA.IN
SP.POP.TOTL.MA.IN
SP.POP.TOTL.MA.IN
 IND
                                                                        3356.662648
2190.515186
1652.021194
USA
 PAK
                                   SP.POP.TOTL.MA.IN
                                   SP.POP.TOTL.MA.IN
SP.POP.TOTL.MA.IN
                                                                         1469.531369
1365.672933
 RUS
 JPN
                                   SP.POP.TOTL.MA.IN
                                                                         110.039613
 rows selected (2.431 seconds)
```

Query: Birth rate, crude (per 1,000 people) SP.DYN.CBRT.IN

Conclusion:

```
wdi_final.country_code,
wdi_final.indicator_code,
SUM(wdi_final.value / 1000000) AS sum_value
                                      wdi_final
     . . . . . . . . . . . . . . . . . WHERE
                                      (wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'SP.DYN.CBRT.IN'
       · · · · · · · · · · · · · · GROUP BY
                                      wdi_final.country_code,
wdi_final.indicator_code
                  . . . . . . . ORDER BY
wdi_final.country_code | wdi_final.indicator_code | sum_value
PΔK
                            SP.DYN.CBRT.IN
                                                           0.000694
                                                           0.000489
BGD
                             SP.DYN.CBRT.IN
                             SP.DYN.CBRT.IN
                                                           0.000469
IND
                             SP.DYN.CBRT.IN
                                                           0.000291
IISA
                            SP.DYN.CBRT.IN
                                                           0.000285
                             SP.DYN.CBRT.IN
CHN
                                                           0.000268
 JPN
                             SP.DYN.CBRT.IN
                                                           0.000183
```

Query: Death rate, crude (per 1,000 people) SP.DYN.CDRT.IN

Conclusion:

```
dbc:hive2://localhost:10000> SELECT
                                      wdi_final.country_code,
                                      wdi_final.indicator_code,
SUM(wdi_final.value / 1000000) AS sum_value
   wdi_final
     Cet
(wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'SP.DYN.CDRT.IN'</pre>
     . . . . . . . . . . . . . . . GROUP BY
      sum_value DESC;
ARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engi
wdi_final.country_code | wdi_final.indicator_code | sum_value
                            SP.DYN.CDRT.IN
                            SP.DYN.CDRT.IN
SP.DYN.CDRT.IN
                                                          0.000186
0.000168
USA
PAK
                                                          0.000167
CHN
                            {\tt SP.DYN.CDRT.IN}
                                                          0.000149
                            SP.DYN.CDRT.IN
                                                          0.000136
BGD
                             SP.DYN.CDRT.IN
```

Query: Life expectancy at birth, total (years) SP.DYN.LE00.IN

Conclusion:

```
rows selected (2.683 seconds)
jdbc:hive2://localhost:10000> SELECT
  ..... SUM(wdi_final.value) AS sum_value
 . . . . . . . . . > ORDER BY
wdi_final.country_code | wdi_final.indicator_code | sum_value
              SP.DYN.LE00.IN
SP.DYN.LE00.IN
JPN
                             1825.17779
USA
                              1714.53898
              SP.DYN.LE00.IN
                              1711.33900
CHN
              SP.DYN.LE00.IN
                              1662.48900
              SP.DYN.LE00.IN
SP.DYN.LE00.IN
BGD
                              1517.88800
                              1514.62439
RUS
              SP.DYN.LE00.IN
                              1475.77100
DΔK
              SP.DYN.LE00.IN
                              1419.04800
```

Query: Population growth (annual %) SP.POP.GROW

Conclusion:

```
jdbc:hive2://localhost:10000> SELECT
                                          wdi_final.country_code,
wdi_final.indicator_code,
SUM(wdi_final.value) AS sum_value
     wdi_final
     (wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'SP.POP.GROW'
              ......> wdi_final.country_code,
.....> wdi_final.indicator_code
....> ORDER BY
ARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution en
 wdi_final.country_code | wdi_final.indicator_code | sum_value
                               SP.POP.GROW
 ARE
                                                                 110.63791
                                SP.POP.GROW
                               SP.POP.GROW
SP.POP.GROW
 IND
                                                                 30.21591
                                                                 28.97498
BGD
 USA
                               SP.POP.GROW
                                                                 17.34598
 CHN
                                SP.POP.GROW
                               SP. POP. GROW
 JPN
                                                                 -0.75254
                               SP.POP.GROW
 RUS
                                                                 -2.59108
```

Query: CPIA gender equality rating (1=low to 6=high) IQ.CPA.GNDR.XQ

```
jdbc:hive2://localhost:10000> SELECT
                                         wdi_final.country_code,
wdi_final.indicator_code,
SUM(wdi_final.value) AS sum_value
                                 .> FROM
                                        .rc (wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'IQ.CPA.GNDR.XQ'
                                 .> GROUP BY
                                        wdi_final.country_code,
wdi_final.indicator_code
            . . . . . . . . . . . > ORDER BY
wdi_final.country_code | wdi_final.indicator_code |
                                                                    sum_value
                                                              65203565949323.21190
                              IO.CPA.GNDR.XO
                               IQ.CPA.GNDR.XQ
                                                               65203565949323.21190
                             I Q.CPA.GNDR.XQ
I Q.CPA.GNDR.XQ
I Q.CPA.GNDR.XQ
I Q.CPA.GNDR.XQ
I Q.CPA.GNDR.XQ
I Q.CPA.GNDR.XQ
                                                               65203565949323.21190
JPN
                                                               65203565949323.21190
CHN
                                                               65203565949323.21190
                                                               46239437514208.72510
IND
                                                               5645750368614.35990
BGD
                                                               5645750368593.85990
rows selected (2.538 seconds)
```

Conclusion:

Query: Current health expenditure (% of GDP) SH.XPD.CHEX.GD.ZS

```
wdi_final.country_code,
wdi_final.indicator_code,
SUM(wdi_final.value) AS sum_value
                                          > FROM
                                                 wdi final
                                                 ...
(wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'SH.XPD.CHEX.GD.ZS'
                                         .> GROUP BY
                                        .> wdi_final.country_code,.> wdi_final.indicator_code.> ORDER BY
.........................> sum_value DESC;
IARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine
wdi_final.country_code | wdi_final.indicator_code |
                                                                                 sum value
                                                                            9594000591930.60251
JPN
                                    SH.XPD.CHEX.GD.ZS
                                                                            9594000591796.42296
                                     SH.XPD.CHEX.GD.ZS
                                                                            9594000591713.56243
                                   SH.XPD.CHEX.GD.ZS
                                                                            9594000591699.14112
CHN
                                     SH.XPD.CHEX.GD.ZS
                                                                            9594000591677.97126
IND
                                    SH.XPD.CHEX.GD.ZS
SH.XPD.CHEX.GD.ZS
                                                                            9594000591673.80759
9594000591657.67769
ARE
BGD
                                     SH.XPD.CHEX.GD.ZS
```

Query: Employment to population ratio, ages 15-24, total (%) (national estimate) SL.EMP.1524.SP.NE.ZS

```
jdbc:hive2://localhost:10000> SELECT
                                                    wdi_final.country_code,
wdi_final.indicator_code,
                                                    SUM(wdi_final.value) AS sum_value
                                                     wdi_final
                                                   cne (wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'SL.EMP.1524.SP.NE.ZS'
                AND wdi_ri.

AND wdi_ri.

SGROUP BY

wdi_final.country_code,

wdi_final.indicator_code
........................> sum_value DESC;
ARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine
wdi_final.country_code | wdi_final.indicator_code |
                                                                                       sum value
                                      SL.EMP.1524.SP.NE.ZS
SL.EMP.1524.SP.NE.ZS
                                                                              | 65203565949323.21190
| 51045850705256.66430
CHN
BGD
                                      SL.EMP.1524.SP.NE.ZS
SL.EMP.1524.SP.NE.ZS
SL.EMP.1524.SP.NE.ZS
ARE
                                                                               34537423824301.60520
IND
                                                                              31244240417998.51830
                                                                               22869154866385.98120
USA
                                      SL.EMP.1524.SP.NE.ZS
SL.EMP.1524.SP.NE.ZS
                                                                               | 1116.78000
| 916.15000
                                      SL.EMP.1524.SP.NE.ZS
```

Conclusion:

Query: Literacy rate, adult total (% of people ages 15 and above) SE.ADT.LITR.ZS

```
jdbc:hive2://localhost:10000> SELECT
......> wdi_final.country_code,
.....> wdi_final.indicator_code,
....> SUM(wdi_final.value) AS sum_value
                                                      wdi_final
                                                      (wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'SE.ADT.LITR.ZS'
                                                GROUP BY

wdi_final.country_code,
wdi_final.indicator_code
                                             .> ORDER BY
.......>> sum_value DESC;
/ARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e
 wdi_final.country_code | wdi_final.indicator_code |
                                        SE.ADT.LITR.ZS
SE.ADT.LITR.ZS
                                                                                   65203565949323.21190
                                                                                   55805407590522.09718
51950835734446.75848
                                        SE.ADT.LITR.ZS
SE.ADT.LITR.ZS
SE.ADT.LITR.ZS
SE.ADT.LITR.ZS
 CHN
                                                                                   51677202351565.19760
                                                                                   47145817084815.41999
 ARE
                                                                                   27816622914549.69876
 BGD
                                       SE.ADT.LITR.ZS
                                                                                   23226820150746.98275
```

Query: Access to electricity (% of population) EG.ELC.ACCS.ZS

```
jdbc:hive2://localhost:10000> SELECT
                                    wdi_final.country_code,
                                    wdi_final.indicator_code,
SUM(wdi_final.value) AS sum_value
                                    wdi_final
      . . . . . . . . . . . . . . WHERE
                                    ...
(wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'EG.ELC.ACCS.ZS'
            . . . . . . . > ORDER BY
wdi_final.country_code | wdi_final.indicator_code |
                                                           sum_value
 USA
                           FG. FLC. ACCS. 7S
                                                        9594000593703.51000
                           EG.ELC.ACCS.ZS
                                                        9594000593703.51000
                           EG.ELC.ACCS.ZS
EG.ELC.ACCS.ZS
                                                       9594000593703.51000
9594000593699.01000
 RUS
                           EG.ELC.ACCS.ZS
                                                       9594000593684.11909
 CHN
 IND
                                                        9594000593214.30087
 PAK
                                                       9594000593099.39778
9594000592867.15676
                           EG.ELC.ACCS.ZS
 BGD
 rows selected (2.488 seconds)
```

Conclusion:

Query: Unemployment, total (% of total labor force) (national estimate) SL.UEM.TOTL.NE.ZS

```
jdbc:hive2://localhost:10000> SELECT
                                           wdi_final.country_code,
                                           wdi_final.indicator_code,
SUM(wdi_final.value) AS sum_value
                                    > FROM
                                           wdi_final
                                           ...
(wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'SL.UEM.TOTL.NE.ZS'
                                         wdi_final.country_code,
wdi_final.indicator_code
wdi_final.country_code | wdi_final.indicator_code |
                                                                  45606979217361.95130
31244240417818.45830
                               SL.UEM.TOTL.NE.ZS
SL.UEM.TOTL.NE.ZS
 IND
ARE
PAK
                                                                  28681017481662.35860
                               SL.UEM.TOTL.NE.ZS
SL.UEM.TOTL.NE.ZS
                                                                  15874415470369.47670
                                                                  6798114323204.98200
RUS
USA
                               SL.UEM.TOTL.NE.ZS
SL.UEM.TOTL.NE.ZS
                                                                  144.07000
131.04000
                               SL.UEM.TOTL.NE.ZS
                                                                  88.18000
  ows selected (2.545 seconds)
jdbc:hive2://localhost:1<u>0</u>000
```

Query: Unemployment, youth total (% of total labor force ages 15-24) (national estimate) SL.UEM.1524.NE.ZS

```
wdi_final.country_code,
wdi_final.indicator_code,
SUM(wdi_final.value) AS sum_value
                                             wdi_final
               . . . . . . . . . . . WHERE
                                             (wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND',
AND wdi_final.indicator_code = 'SL.UEM.1524.NE.ZS'
                                                                                                               'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
                                     .> GROUP BY
.> wdi_final.country_code,
.> wdi_final.indicator_code
                                    .> ORDER BY
wdi_final.country_code | wdi_final.indicator_code |
CHN
                                 SL.UEM.1524.NE.ZS
                                                                     38399942916186.23090
ARE
IND
                                 SL.UEM.1524.NE.ZS
SL.UEM.1524.NE.ZS
SL.UEM.1524.NE.ZS
                                                                     33188434797074.49060
                                                                   31244240417908.96830
19427460292256.15010
                                 SL.UEM.1524.NE.ZS
SL.UEM.1524.NE.ZS
                                                                    357.17000
272.82000
RUS
                                 SL.UEM.1524.NE.7S
 JPN
                                                                     160.91000
 rows selected (2.557 seconds)
jdbc:hive2://localhost:10000
```

Conclusion:

Query: Adjusted net national income (annual % growth) NY.ADJ.NNTY.KD.ZG

```
jdbc:hive2://localhost:10000> SELECT
                                            wdi_final.country_code,
                                            wdi_final.indicator_code,
SUM(wdi_final.value) AS sum_value
                                            wdi_final
        . . . . . . . . . . . . . . . WHERE
                                            (wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'NY.ADJ.NNTY.KD.ZG'
        . . . . . . . . . . . . . GROUP BY
               . . . . . wdi_final.country_code,
. . . . . wdi_final.indicator_code
. . . . . ORDER_BY
                                              sum_value DESC;
JARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution eng
 wdi_final.country_code | wdi_final.indicator_code |
 ARE
                                 NY.ADJ.NNTY.KD.ZG
                                                                   11554730015007.08638
                                 NY.ADJ.NNTY.KD.ZG
                                 NY.ADJ.NNTY.KD.ZG
NY.ADJ.NNTY.KD.ZG
 IND
                                                                   9594000591733.29884
                                                                    9594000591721.73077
BGD
                                 NY.ADJ.NNTY.KD.ZG
                                                                    9594000591699.94028
                                 NY.ADJ.NNTY.KD.ZG
NY.ADJ.NNTY.KD.ZG
 PAK
                                                                   9594000591672.64126
                                                                    9594000591641.62392
USA
                                                                    9594000591613.98828
                                 NY.ADJ.NNTY.KD.ZG
 JPN
```

Query: Broad money (% of GDP) FM.LBL.BMNY.GD.ZS

```
jdbc:hive2://localhost:10000> SELECT
                                                  wdi_final.country_code,
wdi_final.indicator_code,
SUM(wdi_final.value/1000) AS sum_value
                                         .> FROM
                                                  wdi_final
                                                (wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'FM.LBL.BMNY.GD.ZS'</pre>
         .....> AND wdi_final.indicator
....> GROUP BY
....> wdi_final.country_code,
...> wdi final.indicator_cod
            .........................> sum_value DESC;
WARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine
wdi_final.country_code | wdi_final.indicator_code |
                                                                                    sum value
                                      FM.LBL.BMNY.GD.ZS
FM.LBL.BMNY.GD.ZS
FM.LBL.BMNY.GD.ZS
                                                                             10517125611.727054
 JPN
                                                                              4.926013
 CHN
                                     FM.LBL.BMNY.GD.ZS
FM.LBL.BMNY.GD.ZS
FM.LBL.BMNY.GD.ZS
USA
                                                                              1.875283
                                                                             1.602345
1.496495
 IND
                                    FM.LBL.BMNY.GD.ZS
FM.LBL.BMNY.GD.ZS
 BGD
                                                                              1.160877
rows selected (2.596 seconds)
```

Conclusion:

Query: Central government debt, total (% of GDP) GC.DOD.TOTL.GD.ZS

```
rows selected (2.596 seconds)
  jdbc:hive2://localhost:10000> SELECT
                                                    wdi_final.country_code,
wdi_final.indicator_code,
SUM(wdi_final.value/1000) AS sum_value
                                                    wdi_final
                                                    (wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'GC.DOD.TOTL.GD.ZS'
                                          .> GROUP BY
                                                   wdi_final.country_code,
wdi_final.indicator_code
                     . . . . . . . . > ORDER BY
......> sum_value DESC;
JARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine
 wdi_final.country_code | wdi_final.indicator_code |
                                                                               65203565949.323214
64280440930.201145
62225945603.470754
                                      GC.DOD.TOTL.GD.ZS
GC.DOD.TOTL.GD.ZS
 PAK
                                      GC.DOD.TOTL.GD.ZS
GC.DOD.TOTL.GD.ZS
                                                                                61802751752.523122
22487517469.320833
 IND
                                                                                 2488262543.496102
                                                                                 3.559619
1.758366
 JPN
                                       GC.DOD.TOTL.GD.ZS
                                       GC.DOD.TOTL.GD.ZS
```

Query: Central government debt, total (current LCU) GC.DOD.TOTL.CN

```
jdbc:hive2://localhost:10000> SELECT
                                                      wdi_final.country_code,
wdi_final.indicator_code,
SUM(wdi_final.value/1000) AS sum_value
                                            .> FROM
                                                      wdi_final
                                                      .ne (wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'GC.DOD.TOTL.CN'
                                             .> GROUP BY
.> wdi_final.country_code,
.> wdi_final.indicator_code
..................> sum_value DESC;
ARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. spar
wdi_final.country_code | wdi_final.indicator_code |
                                        GC.DOD.TOTL.CN
GC.DOD.TOTL.CN
                                                                                  18849000000000.000000
                                                                                     808687517468.281789
USA
RUS
                                        GC.DOD.TOTL.CN
GC.DOD.TOTL.CN
                                                                                    298230000000.000000
188578262543.125929
                                        GC.DOD.TOTL.CN
GC.DOD.TOTL.CN
GC.DOD.TOTL.CN
                                                                                  67110440930.134392
65203565949.323214
64809751752.428592
PAK
 BGD
  ows selected (2.544 seconds)
```

Conclusion:

Query: Current account balance (% of GDP) BN.CAB.XOKA.GD.ZS

```
rows selected (2.544 seconds)
jdbc:hive2://localhost:10000> SELECT
                                                   wdi_final.country_code,
wdi_final.indicator_code
                                                   SUM(wdi_final.value/1000) AS sum_value
                                          .> FROM
                                                   wdi_final
                                          .> WHERE
                                                  .nc (wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'BN.CAB.XOKA.GD.ZS'
                                         .> GROUP BY
.> wdi_final.country_code,
.> wdi_final.indicator_code
                  . . . . . . . . . > ORDER BY
....................> sum_value DESC;
IARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine
 wdi_final.country_code | wdi_final.indicator_code |
                                                                                  sum value
                                      BN.CAB.XOKA.GD.ZS
                                                                             65203565949.323214
                                     BN.CAB.XOKA.GD.ZS
BN.CAB.XOKA.GD.ZS
                                                                             0.135484
RUS
CHN
                                      BN.CAB.XOKA.GD.ZS
BN.CAB.XOKA.GD.ZS
                                                                             0.065017
0.005110
 JPN
BGD
 IND
                                      BN.CAB.XOKA.GD.ZS
                                                                              -0.027219
                                     BN.CAB.XOKA.GD.ZS
BN.CAB.XOKA.GD.ZS
PAK
                                                                              -0.040775
USA
                                                                              -0.075168
```

Query: Expense (% of GDP) GC.XPN.TOTL.GD.ZS

```
jdbc:hive2://localhost:10000>
                                      wdi_final.country_code,
                                      wdi_final.indicator_code,
SUM(wdi_final.value/1000) AS sum_value
                               .> FROM
                                      wdi final
                                      .> AUTO HAT_

.> GROUP BY

.> wdi_final.country_code,

.> wdi_final.indicator_code
               . . . . . . . . > ORDER BY
                                      sum_value DESC;
ARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine
wdi_final.country_code | wdi_final.indicator_code |
                           | GC.XPN.TOTL.GD.ZS
                                                         65203565949.323214
                                                          64280440930.149889
22487517468.579489
16437505125.935863
923125019.368952
                           GC.XPN.TOTL.GD.ZS
GC.XPN.TOTL.GD.ZS
PAK
IND
                            GC.XPN.TOTL.GD.ZS
                           GC.XPN.TOTL.GD.ZS
BGD
USA
                           GC.XPN.TOTL.GD.ZS
JPN
                                                          0.375335
rows selected (2.584 seconds)
```

Conclusion:

Query: Expense (current LCU) GC.XPN.TOTL.CN

```
rows selected (2.584 seconds)
jdbc:hive2://localhost:10000> SELECT
                                          wdi_final.country_code,
wdi_final.indicator_code,
                                          SUM(wdi_final.value) AS sum_value
          . . . . . . . . . . . > FROM
                                          wdi_final
                                          (wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'GC.XPN.TOTL.CN'
                   .....> GROUP BY
.....> wdi_final.country_code,
....> wdi_final.indicator_code
                 . . . . . . . . > ORDER BY
wdi_final.country_code | wdi_final.indicator_code |
                               GC.XPN.TOTL.CN
                                                               1983100000000000.00000
                               GC.XPN.TOTL.CN
GC.XPN.TOTL.CN
 RUS
                                                                355840000000000.00000
 IND
                                                                261397517468281.78900
                                                               82420000000000 .00000
65203565949323 .21190
64938440930134 .38990
                               GC.XPN.TOTL.CN
                               GC.XPN.TOTL.CN
GC.XPN.TOTL.CN
CHN
PAK
                                                                24280125019188.82200
 ARE
                               GC.XPN.TOTL.CN
                                                                17097223051949.64070
```

Query: Fossil fuel energy consumption (% of total) EG.USE.COMM.FO.ZS

```
jdbc:hive2://localhost:10000> SELECT
                                         wdi_final.country_code,
                                         wdi_final.indicator_code,
SUM(wdi_final.value) AS sum_value
   wdi_final
     . . . . . . . . . . . . . . . . WHERE
                                         (wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'EG.USE.COMM.FO.ZS'
       . . . . . . . . . . . . > ORDER BY
                                         sum_value DESC;
IARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution en
 wdi_final.country_code | wdi_final.indicator_code |
                              EG.USE.COMM.FO.ZS
                                                              41699304501057.25450
 ARE
                              EG.USE.COMM.FO.ZS
                                                               37464256449722.51834
                                                              37464256449646.93512
37464256449385.01171
 CHN
                              EG.USE.COMM.FO.ZS
                              EG.USE.COMM.FO.ZS
EG.USE.COMM.FO.ZS
 IND
                                                              37464256449359.41728
 BGD
                                                               37464256449259.88615
                              EG.USE.COMM.FO.ZS
                              EG.USE.COMM.FO.ZS
EG.USE.COMM.FO.ZS
                                                              34250434422800.43702
34250434422788.97668
 JPN
 USA
 rows selected (2.477 seconds)
```

Conclusion:

Query: GDP growth (annual %) NY.GDP.MKTP.KD.ZG

```
wdi_final.country_code,
wdi_final.indicator_code,
                                         SUM(wdi_final.value) AS sum_value
                                 .> FROM
                                         wdi_final
                                 .> WHERE
                                        (wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'NY.GDP.MKTP.KD.ZG'
                 . . . . . . . . . GROUP BY
                                        wdi_final.country_code,
wdi_final.indicator_code
                 . . . . . . . . > ORDER BY
wdi_final.country_code | wdi_final.indicator_code | sum_value
                              NY.GDP.MKTP.KD.ZG
                                                               131.98485
131.16232
 BGD
                              NY.GDP.MKTP.KD.ZG
 IND
                              NY.GDP.MKTP.KD.ZG
                              NY.GDP.MKTP.KD.ZG
NY.GDP.MKTP.KD.ZG
                                                               90.91655
85.87208
 PAK
 ARF
                              NY.GDP.MKTP.KD.ZG
                              NY.GDP.MKTP.KD.ZG
NY.GDP.MKTP.KD.ZG
 IISA
                                                               44.87740
 JPN
                                                               13.93812
 rows selected (2.504 seconds): jdbc:hive2://localhost:10000
```

Query: Tax revenue (% of GDP) GC.TAX.TOTL.GD.ZS

```
jdbc:hive2://localhost:10000> SELECT
                                                 wdi_final.country_code,
wdi_final.indicator_code,
SUM(wdi_final.value) AS sum_value
                                         > FROM
                                                 wdi final
                                        .> WHERE
                                                (wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'GC.TAX.TOTL.GD.ZS'</pre>
                                       .> GROUP BY
.> wdi_final.country_code,
.> wdi_final.indicator_code
.> ORDER BY
wdi final.country code | wdi final.indicator code |
                                                                                 sum value
                                  GC.TAX.TOTL.GD.ZS
GC.TAX.TOTL.GD.ZS
GC.TAX.TOTL.GD.ZS
GC.TAX.TOTL.GD.ZS
GC.TAX.TOTL.GD.ZS
                                                                          | 65203565949323.21190
| 64280440930143.48677
                                                                           22487517468477.65008
16437505125893.43575
ARE
                                    GC.TAX.TOTL.GD.ZS
GC.TAX.TOTL.GD.ZS
GC.TAX.TOTL.GD.ZS
                                                                           15239750960309.60197
923125019348.35624
CHN
BGD
USA
                                    GC.TAX.TOTL.GD.ZS
                                                                           229.42049
```

Conclusion:

Query: Gross savings (% of GDP) NY.GNS.ICTR.ZS

```
dbc:hive2://localhost:10000> SELECT
                                                 wdi_final.country_code,
wdi_final.indicator_code,
SUM(wdi_final.value/1000) AS sum_value
                                        .> FROM
                                                wdi_final
                                       .> WHERE
                                                nc
(wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'NY.GNS.ICTR.ZS'
           .........................> sum_value DESC;
IARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine
wdi_final.country_code | wdi_final.indicator_code |
                                                                                 sum value
                                    NY.GNS.ICTR.ZS
NY.GNS.ICTR.ZS
                                                                         65203565949.323214
CHN
                                                                           1.002627
                                    NY.GNS.ICTR.ZS
NY.GNS.ICTR.ZS
NY.GNS.ICTR.ZS
                                                                         0.778399
0.713278
0.619713
IND
                                   NY.GNS.ICTR.ZS
NY.GNS.ICTR.ZS
                                                                         0.618715
0.402552
RUS
                                                                           0.357279
         elected (2.512 seconds)
```

Query: Inflation, consumer prices (annual %) FP.CPI.TOTL.ZG

```
rows selected (2.512 seconds)
jdbc:hive2://localhost:10000> SELECT
                                               wdi_final.country_code,
wdi_final.indicator_code,
SUM(wdi_final.value/1000) AS sum_value
                                       .> FROM
                                               wdi final
                                               (Wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'FP.CPI.TOTL.ZG'
                                      .> GROUP BY
           sum_value DESC;
ARRNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine
 wdi_final.country_code | wdi_final.indicator_code |
                                   FP.CPI.TOTL.ZG
                                                                         10260362068.564531
                                   FP.CPI.TOTL.ZG
FP.CPI.TOTL.ZG
FP.CPI.TOTL.ZG
PAK
                                                                         0.174370
0.138094
 BGD
                                   FP.CPI.TOTL.ZG
FP.CPI.TOTL.ZG
FP.CPI.TOTL.ZG
 IND
                                                                         0.134975
0.049342
USA
 TPN
                                   FP.CPI.TOTL.ZG
                                                                         0 001849
```

Conclusion:

Query: Net primary income (Net income from abroad) (current US\$) NY.GSR.NFCY.CD

```
ows selected (4.068 seconds)
jdbc:hive2://localhost:10000> SELECT
                                        wdi_final.country_code,
                                        wdi_final.indicator_code,
                                        SUM(wdi_final.value/1000) AS sum_value
                                        wdi_final
       (wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'NY.GSR.NFCY.CD'</pre>
                    ORDER BY
                                        sum_value DESC;
ARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engi
wdi_final.country_code | wdi_final.indicator_code |
                                                                 sum value
                             NY.GSR.NFCY.CD
                                                           12577417134.626510
                             NY.GSR.NFCY.CD
                                                            9639267392.149190
                             NY.GSR.NFCY.CD
NY.GSR.NFCY.CD
                                                            3606772000.000000
192464589.446000
USA
BGD
                             NY.GSR.NFCY.CD
                                                             -80914010.000000
                                                            -399775284.433000
-743756094.483000
IND
                             NY.GSR.NFCY.CD
                             NY.GSR.NFCY.CD
CHN
                                                             -815843049.995000
                            NY.GSR.NFCY.CD
```

Query : Adjusted savings: education expenditure (current US\$) NY.ADJ.AEDU.CD

```
jdbc:hive2://localhost:10000> SELECT
                                      wdi_final.country_code,
                                      wdi_final.indicator_code,
SUM(wdi_final.value/1000) AS sum_value
     (wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'NY.ADJ.AEDU.CD'
               . . . . . . . . > GROUP BY
                                      wdi_final.country_code,
wdi_final.indicator_code
                  . . . . . . . > ORDER BY
wdi_final.country_code | wdi_final.indicator_code |
                                                               sum value
IISΔ
                            NY.ADJ.AEDU.CD
NY.ADJ.AEDU.CD
                                                         | 16608000000.000000
| 9765247582.398510
ARE
                             NY.ADJ.AEDU.CD
CHN
                            NY.ADJ.AEDU.CD
NY.ADJ.AEDU.CD
                                                          2910966799.810000
                                                          1111542163.280000
IND
                             NY.ADJ.AEDU.CD
                                                           1072430941.531000
PAK
                            NY.ADJ.AEDU.CD
NY.ADJ.AEDU.CD
                                                           84574080.587000
60592219.910600
```

Conclusion:

Query: Adolescents out of school (% of lower secondary school age) SE.SEC.UNER.LO.ZS

```
wdi_final.country_code,
                                                    wdi_final.indicator_code,
SUM(wdi final.value/1000) AS sum value
                                                    wdi final
                                                    NCWdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'SE.SEC.UNER.LO.ZS'
                                           .> GROUP BY
                                          SKNUP BYwdi_final.country_code,wdi_final.indicator_codeORDER BY
......> sum_value DESC;
/ARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine
 wdi_final.country_code | wdi_final.indicator_code |
                                     SE.SEC.UNER.LO.ZS
SE.SEC.UNER.LO.ZS
                                                                              65203565949.323214
59424808318.771562
 CHN
                                      SE.SEC.UNER.LO.ZS
SE.SEC.UNER.LO.ZS
                                                                              46853187381.357503
46325889750.049459
 IND
 JPN
                                                                                44863237684.404675
                                       SE.SEC.UNER.LO.ZS
SE.SEC.UNER.LO.ZS
 RUS
                                                                                37005016680.006385
                                                                              27874910212.146773
```

Query: Children in employment, total (% of children ages 7-14) SL.TLF.0714.ZS

```
rows selected (2.506 seconds)
 jdbc:hive2://localhost:10000> SELECT
                                   wdi_final.country_code,
wdi_final.indicator_code
                                   SUM(wdi_final.value/1000) AS sum_value
                            .> FROM
                            .> WHERE
                                  (wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'SL.TLF.0714.ZS'</pre>
             . . . . . . . . . > ORDER BY
wdi_final.country_code | wdi_final.indicator_code |
                                                         sum value
USA
                                                    65203565949.323214
                         SL.TLF.0714.ZS
                         | SL.TLF.0714.ZS
| SL.TLF.0714.ZS
| SL.TLF.0714.ZS
JPN
CHN
                                                      65203565949.323214
                                                      65203565949.323214
ARE
PAK
                                                      65203565949.323214
60715564062.983718
                          SL.TLF.0714.ZS
                                                      56549321941.429615
```

Conclusion:

Query: Children out of school (% of primary school age)

SE.PRM.UNER.ZS

```
wdi_final.country_code,
wdi_final.indicator_code,
SUM(wdi_final.value/1000) AS sum_value
                       .> FROM
                            wdi_final
                            .> GROUP BY
                            wdi_final.country_code,
wdi_final.indicator_code
            . . . . . . . . > ORDER BY
wdi_final.country_code | wdi_final.indicator_code |
                     SE.PRM.UNER.ZS
                                          | 65203565949.323214
                     SE.PRM.UNER.ZS
                     SE.PRM.UNER.ZS
SE.PRM.UNER.ZS
RGD
                                          45454360817.960845
JPN
                                          37005016680.012748
                     SE.PRM.UNER.ZS
                                            33006700719.659233
                     SE.PRM.UNER.ZS
SE.PRM.UNER.ZS
ARF
                                            31126436999 . 511741
                                            24602239618.403715
                     SE.PRM.UNER.ZS
                                            10512594413.414713
```

Query: Compulsory education, duration (years) SE.COM.DURS

```
rows selected (2.386 seconds)
  jdbc:hive2://localhost:10000> SELECT
                                   wdi_final.country_code,
                                   wdi_final.indicator_code,
SUM(wdi_final.value/1000) AS sum_value
    wdi_final
      . . . . . . . . . . . . . . . . WHERE
                                   (wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'SE.COM.DURS'</pre>
        . . . . . . . > ORDER BY
wdi_final.country_code | wdi_final.indicator_code |
                          SE.COM.DURS
                                                     12202457074.558608
JPN
USA
                          SE.COM.DURS
SE.COM.DURS
                                                      9594000591.792510
0.264000
                          SE.COM.DURS
                                                      0.264000
                          SE.COM.DURS
SE.COM.DURS
SE.COM.DURS
RUS
                                                      0.212000
CHN
                                                      0.198000
BGD
                          SE.COM.DURS
                                                      0.110000
```

Conclusion:

Query: Educational attainment, at least Bachelor's or equivalent, population 25+,

total (%) (cumulative) SE.TER.CUAT.BA.ZS

```
ows selected (2.3/9 seconds)
jdbc:hive2://localhost:10000> SELECT
                                               wdi_final.country_code, wdi_final.indicator_code,
                                               SUM(wdi_final.value/1000) AS sum_value
                                               wdi_final
    AND wdi_fima.

AND wdi_final.indicator_

AND wdi_final.indicator_

GROUP BY

Wdi_final.country_code,

wdi_final.indicator_code
                                               (wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'SE.TER.CUAT.BA.ZS'</pre>
                                               sum value DESC;
ARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution eng
wdi_final.country_code | wdi_final.indicator_code |
                                                                              sum value
                                   SE.TER.CUAT.BA.ZS
                                                                       65203565949.323214
                                   SE.TER.CUAT.BA.ZS
RUS
                                                                       62968823948.772905
                                   SE.TER.CUAT.BA.ZS
                                                                       62968823948.733557
JPN
                                   SE.TER.CUAT.BA.ZS
                                                                       62968823948.717222
                                  SE.TER.CUAT.BA.ZS
SE.TER.CUAT.BA.ZS
                                                                       52562795873.445309
42203537387.829906
TND
USA
                                   SE.TER.CUAT.BA.ZS
                                                                         36731889158.662438
RGD
                                   SE.TER.CUAT.BA.ZS
                                                                        26031505717.575019
```

Query: Government expenditure on education, total (% of GDP) SE.XPD.TOTL.GD.ZS

```
rows selected (2.411 seconds)
jdbc:hive2://localhost:10000> SELECT
                                             wdi_final.country_code,
wdi_final.indicator_code,
SUM(wdi_final.value/1000) AS sum_value
     wdi_final
                                           (wdi_final.year >= 2000 AND wdi_final.year <= 2022)
AND wdi_final.country_code IN ('USA', 'CHN', 'IND', 'PAK', 'BGD', 'KOR', 'JPN', 'ARE', 'RUS')
AND wdi_final.indicator_code = 'SE.XPD.TOTL.GD.ZS'</pre>
          · · · · · · · · · · · · · · · GROUP BY
        . . . . . . . . . > ORDER BY
                                              sum_value DESC;
ARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine
 wdi_final.country_code | wdi_final.indicator_code |
                                                                    26031505717.513408
                                 SE.XPD.TOTL.GD.ZS
                                 SE.XPD.TOTL.GD.ZS
SE.XPD.TOTL.GD.ZS
SE.XPD.TOTL.GD.ZS
                                                                     23796763716.946299
18666970264.447070
 IND
                                                                      15239750960.213648
                                 SE.XPD.TOTL.GD.ZS
SE.XPD.TOTL.GD.ZS
SE.XPD.TOTL.GD.ZS
                                                                      13361387805.864835
11594306642.496511
 JPN
                                                                       3583731027.712378
 DΔK
                                 SE.XPD.TOTL.GD.ZS
                                                                      3400814196.940652
```

Conclusion: