

GitHub : pradeep00000

SQL World Economy Dataset Analysis



```
1 • create schema world;
2 • select * from worldbank;
3
4 #1. List all countries and their respective regions.
5 • select `Country Name` , Region
6 from worldbank;
7
8 #2. Find the average GDP per capita for each income group.
9 • select IncomeGroup , avg(`GDP per capita (USD)`)
10 from worldbank
11 group by IncomeGroup;
```

```
13  #3. Retrieve all records for a specific year, e.g., 2018.
14 • select * from worldbank
15   where Year = 2018;
16
17  #4. List the top 5 countries by population density in 2018.
18 • select `Country Name` ,
19         sum(`Population density (people per sq. km of land area)`)
20         as Population_Density from worldbank
21         where Year = 2018
22  group by `Country Name`
23  order by Population_Density desc
24  limit 5;
```

```
26 #5. Count the number of countries in each region.
27 • select Region , count(distinct `Country Name`)
28 from worldbank
29 group by Region;
30
31 #6. Identify countries with an unemployment
32 # rate greater than 10% in any year.
33 • select `Country Name` , Year ,
34 `Unemployment (% of total labor force) (modeled ILO estimate)`
35 from worldbank
36 where Year = 2018 and
37 `Unemployment (% of total labor force) (modeled ILO estimate)` > 10;
38
```



```
39 #7. Compare GDP per capita between high-income and
40 # low-income countries for the year 2018.
41 • select `IncomeGroup`, avg(`GDP per capita (USD)`) as Average_GDP_Per_Capita
42 from WorldBank
43 where Year = 2018 and IncomeGroup in ('High income', 'Low income')
44 group by IncomeGroup;
45
46 #8. Find the top 3 countries with the highest internet usage percentage in 2018.
47 • select `Country Name`, `Individuals using the Internet (% of population)`
48 from WorldBank
49 where `Year` = 2018
50 order by `Individuals using the Internet (% of population)` desc
51 limit 3;
```

```
53  #9. show the trend of life expectancy for a specific country (e.g., india).
54 • select `Year`, `life expectancy at birth (years)`
55   from worldbank
56  where `country name` = 'india'
57  order by `Year`;
58
59  #10. list countries with missing gdp data.
60 • select distinct `Country Name`
61   from worldbank
62  where `gdp (usd)` is null;
```

```
64 #12. identify regions with the highest average
65 #    birth rate over the years.
66 • select Region, avg(`birth rate, crude (per 1,000 people)`)
67    as average_birth_rate from worldbank
68 group by Region
69 order by average_birth_rate desc
70 limit 1;
71
```

#13. find countries where the life expectancy
is below the global average for 2018.

```
with global_average as (  
    select avg(`life expectancy at birth (years)`)  
    as avg_life_expectancy from worldbank  
    where `Year` = 2018  
)  
select `Country Name`, `life expectancy at birth (years)`  
from worldbank, global_average  
where `Year` = 2018 and `life expectancy at birth (years)`  
    < avg_life_expectancy;
```


#14. rank countries by gdp per capita growth rate
between 2015 and 2018.

```
• with gdp_growth as (  
    select `Country Name`,  
           (max(`gdp per capita (usd)`) -  
            min(`gdp per capita (usd)`)) / min(`gdp per capita (usd)`)  
            * 100 as growth_rate  
    from worldbank  
    where `Year` between 2015 and 2018  
    group by `Country Name`  
)  
select `Country Name`, growth_rate  
from gdp_growth  
order by growth_rate desc;
```

#15. identify the top 5 regions with the lowest
unemployment rates in 2018.

```
select Region, avg(`Unemployment (% of total  
labor force) (modeled ILO estimate)`) as avg_unemployment  
from worldbank  
where `Year` = 2018  
group by Region  
order by avg_unemployment asc  
limit 5;
```

#16. find countries with consistent internet

usage growth from 2015 to 2018.

```
• with growth_trend as (  
    select `Country Name`, `Year`, `Individuals using the internet  
    (% of population)`,  
        lag(`Individuals using the internet (% of population)`)  
over (partition by "country name" order by "year") as prev_internet_usage  
    from worldbank  
    where `Year` between 2015 and 2018  
)  
select `Country Name`  
from growth_trend  
where `Individuals using the internet (% of population)` > prev_internet_usage  
group by `Country Name`  
having count(`Year`) = 3;
```

#17. calculate the average death rate for low-income countries over time.

- ```
select `Year`, avg(`Death rate, crude (per 1,000 people)`) as avg_death_rate
from worldbank
where incomegroup = 'low income'
group by `Year`
order by `Year`;
```

#18. compare life expectancy trends between

# two regions (e.g., sub-saharan africa and europe).

- ```
select Region, `Year`,
avg(`Life expectancy at birth (years)`)
from worldbank
where Region in (`Sub-Saharan Africa`, `Europe & Central Asia`)
group by Region, `Year`
order by `Year`;
```

#19. find the global percentage of internet users in 2018.

```
select sum(`Individuals using the Internet (% of population)`)  
/ count(*) as global_internet_percentage  
from worldbank  
where `Year` = 2018;
```

#20. identify the top 3 countries with the largest
gaps between birth and death rates in 2018.

```
select `Country Name`,  
       (`Birth rate, crude (per 1,000 people)`  
- `Death rate, crude (per 1,000 people)`) as rate_difference  
from worldbank  
where `Year` = 2018  
order by rate_difference desc  
limit 3;
```