1. Which top 5 countries produced the most electricity from renewable sources in 2021?

```
use EU_electricity;

select

   helec.`Country Name`,

   (helec.`2021` + relec.`2021`) as Renewable_2021

from Elecsources_data as helec

join Elecsources_data as relec

  on helec.`Country Name` = relec.`Country Name`

where helec.`Source of electricity` = 'Electricity production from hydroelectric sources (% of total)'

  and relec.`Source of electricity` = 'Electricity production from renewable sources, excluding hydroelectric (% of total)'

order by Renewable_2021 desc

limit 5;
```

2. Compare electricity production from fossil fuels across Euro countries.

```
select
   `Country Name`,
   `2020`,
   `2021`,
   `2022`,
   `2023`
from Elecsources_data
where `Source of electricity` = 'Electricity production from oil, gas and coal sources (% of total)'
order by `Country Name`;
```

3. What percentage of electricity was produced from hydroelectric sources in each country?

```
use EU_electricity;

select

   `Country Name`,
```

```
    `2020`,

    `2021`,

    `2022`,

    `2023`

from Elecsources_data

where `Source of electricity` = 'Electricity production from hydroelectric sources (% of total)'

order by `Country Name`;
```

4. List countries where over 50% of electricity came from nonrenewable sources in 2022.

```
select
    oil.`Country Name`,
    oil.`2022` as fossil_fuel,
    nuclear.`2022` as nuclear,
    (oil.`2022` + nuclear.`2022`) as Nonrenewable_2022
from Elecsources_data as oil
join Elecsources_data as nuclear
  on oil.`Country Name` = nuclear.`Country Name`
where oil.`Source of electricity` = 'Electricity production from oil, gas and coal sources (% of
total)'
  and nuclear.`Source of electricity` = 'Electricity production from nuclear sources (% of total)'
  and (oil.`2022` + nuclear.`2022`) > 50
order by Nonrenewable_2022 desc;
```

5. Compare renew sources vs non renew sources of electricity production of all countries for years of 2020 and 2021

```
select
    a1.`Country Name`,

    (a1.`2020` + a2.`2020`) as Renewable_2020,
    (b1.`2020` + b2.`2020`) as Nonrenewable_2020,

    (a1.`2021` + a2.`2021`) as Renewable_2021,
    (b1.`2021` + b2.`2021`) as Nonrenewable_2021

from Elecsources_data as a1
join Elecsources_data as a2
  on a1.`Country Name` = a2.`Country Name`
join Elecsources_data as b1
```

```
  on a1.`Country Name` = b1.`Country Name`
join Elecsources_data as b2
  on a1.`Country Name` = b2.`Country Name`

where a1.`Source of electricity` = 'Electricity production from hydroelectric sources (% of total)'
  and a2.`Source of electricity` = 'Electricity production from renewable sources, excluding
hydroelectric (% of total)'
  and b1.`Source of electricity` = 'Electricity production from oil, gas and coal sources (% of
total)'
  and b2.`Source of electricity` = 'Electricity production from nuclear sources (% of total)'

order by a1.`Country Name`;
```

6. Compare Renewables hydro and non-hydro separately of above 5 environmentally friendly countries for 2020 and 2021

```
select
    c.`Country Name`,

    c.`2020` as hydro_2020,
    d.`2020` as nonhydro_2020,

    c.`2021` as hydro_2021,
    d.`2021` as nonhydro_2021

from Elecsources_data as c
join Elecsources_data as d
  on c.`Country Name` = d.`Country Name`

where c.`Source of electricity` = 'Electricity production from hydroelectric sources (% of total)'
  and d.`Source of electricity` = 'Electricity production from renewable sources, excluding
hydroelectric (% of total)'
  and c.`Country Name` in ('Austria', 'Portugal', 'Finland', 'Latvia', 'Estonia');
```

7. Electricity production from coal sources

```
select
    `Country Name`,
    `2020`,
    `2021`,
    `2022`,
    `2023`
from Elecsources_data
where `Source of electricity` = 'Electricity production from coal sources (% of total)'
order by `Country Name`;
```