

-- calculation of first year losses to previous year war population ratio for each country

```
WITH previous_year_population AS(
    SELECT row_number, Name, year AS current_year,
           population AS current_population,
           LAG(population) OVER(PARTITION BY Name ORDER BY year) AS previous_year_population
    FROM `bubbly-tractor-391309.pet_project.population_war_country_1974_2023_melted`
)
SELECT pp.row_number, pp.Name, pp.current_year, pp.current_population,
       pp.previous_year_population, m.migrants,
       ROUND(m.migrants*100/pp.previous_year_population, 2) AS first_year_ratio
FROM previous_year_population pp
JOIN `bubbly-tractor-391309.pet_project.migrants_war_country_1974_2023_melted` m
ON pp.row_number=m.row_number
WHERE (pp.Name='Afghanistan' AND pp.current_year=1981)
      OR (pp.Name='Lebanon' AND pp.current_year=1975)
      OR (pp.Name='Croatia' AND pp.current_year=1991)
      OR (pp.Name='Serbia' AND pp.current_year=1991)
      OR (pp.Name='Slovenia' AND pp.current_year=1991)
      OR (pp.Name='Montenegro' AND pp.current_year=1992)
      OR (pp.Name='Bosnia and Herzegovina' AND pp.current_year=1992)
      OR (pp.Name='Rwanda' AND pp.current_year=1994)
      OR (pp.Name='North Macedonia' AND pp.current_year=2001)
      OR (pp.Name='Iraq' AND pp.current_year=2003)
      OR (pp.Name='Libya' AND pp.current_year=2011)
      OR (pp.Name='Syria' AND pp.current_year=2012)
      OR (pp.Name='Ukraine' AND pp.current_year=2022)
ORDER BY first_year_ratio;
```

-- calculation of total war years losses to the previous war year population ratio

```
WITH previous_year_population AS(
    SELECT row_number, Name, year AS current_year,
           population AS current_population,
           LAG(population) OVER(PARTITION BY Name ORDER BY year) AS previous_year_population
    FROM `bubbly-tractor-391309.pet_project.population_war_country_1974_2023_melted`
)
SELECT pp.Name,
       SUM(CASE WHEN pp.current_year BETWEEN 2014 AND 2023 THEN m.migrants ELSE 0 END) AS
total_migrants,
       SUM(CASE WHEN pp.current_year=2014 THEN pp.previous_year_population ELSE 0 END) AS
previous_war_population,
       ROUND(SUM(CASE WHEN pp.current_year BETWEEN 2014 AND 2023 THEN m.migrants ELSE 0 END)*100/
             SUM(CASE WHEN pp.current_year=2014 THEN pp.previous_year_population ELSE 0 END), 2)
       AS total_loss_ratio
FROM previous_year_population pp
JOIN `bubbly-tractor-391309.pet_project.migrants_war_country_1974_2023_melted` m
ON pp.row_number=m.row_number
WHERE
    pp.Name='Ukraine' AND pp.current_year BETWEEN 2014 AND 2023
GROUP BY pp.Name
```

UNION ALL

```
SELECT pp.Name,
       SUM(CASE WHEN pp.current_year BETWEEN 1975 AND 1990 THEN m.migrants ELSE 0 END) AS
total_migrants,
       SUM(CASE WHEN pp.current_year=1975 THEN pp.previous_year_population ELSE 0 END) AS
previous_war_population,
       ROUND(SUM(CASE WHEN pp.current_year BETWEEN 1975 AND 1990 THEN m.migrants ELSE 0 END)*100/
             SUM(CASE WHEN pp.current_year=1975 THEN pp.previous_year_population ELSE 0 END), 2)
       AS total_loss_ratio
FROM previous_year_population pp
JOIN `bubbly-tractor-391309.pet_project.migrants_war_country_1974_2023_melted` m
ON pp.row_number=m.row_number
```

WHERE

```
    pp.Name='Lebanon' AND pp.current_year BETWEEN 1975 AND 1990
GROUP BY pp.Name
```

UNION ALL

```
SELECT pp.Name,
       SUM(CASE WHEN pp.current_year BETWEEN 1974 AND 1989 THEN m.migrants ELSE 0 END) AS
total_migrants,
       SUM(CASE WHEN pp.current_year=1975 THEN pp.previous_year_population ELSE 0 END) AS
previous_war_population,
       ROUND(SUM(CASE WHEN pp.current_year BETWEEN 1974 AND 1989 THEN m.migrants ELSE 0 END)*100/
             SUM(CASE WHEN pp.current_year=1975 THEN pp.previous_year_population ELSE 0 END), 2)
       AS total_loss_ratio
FROM previous_year_population pp
JOIN `bubbly-tractor-391309.pet_project.migrants_war_country_1974_2023_melted` m
ON pp.row_number=m.row_number
WHERE
    pp.Name='Afghanistan' AND pp.current_year BETWEEN 1974 AND 1989
GROUP BY pp.Name
```

UNION ALL

```
SELECT pp.Name,
       SUM(CASE WHEN pp.current_year BETWEEN 1991 AND 1995 THEN m.migrants ELSE 0 END) AS
total_migrants,
       SUM(CASE WHEN pp.current_year=1991 THEN pp.previous_year_population ELSE 0 END) AS
previous_war_population,
       ROUND(SUM(CASE WHEN pp.current_year BETWEEN 1991 AND 1995 THEN m.migrants ELSE 0 END)*100/
             SUM(CASE WHEN pp.current_year=1991 THEN pp.previous_year_population ELSE 0 END), 2)
       AS total_loss_ratio
FROM previous_year_population pp
JOIN `bubbly-tractor-391309.pet_project.migrants_war_country_1974_2023_melted` m
ON pp.row_number=m.row_number
WHERE
    pp.Name='Croatia' AND pp.current_year BETWEEN 1991 AND 1995
GROUP BY pp.Name
```

UNION ALL

```
SELECT pp.Name,
       SUM(CASE WHEN pp.current_year BETWEEN 1991 AND 2001 THEN m.migrants ELSE 0 END) AS
total_migrants,
       SUM(CASE WHEN pp.current_year=1991 THEN pp.previous_year_population ELSE 0 END) AS
previous_war_population,
       ROUND(SUM(CASE WHEN pp.current_year BETWEEN 1991 AND 2001 THEN m.migrants ELSE 0 END)*100/
             SUM(CASE WHEN pp.current_year=1991 THEN pp.previous_year_population ELSE 0 END), 2)
       AS total_loss_ratio
FROM previous_year_population pp
JOIN `bubbly-tractor-391309.pet_project.migrants_war_country_1974_2023_melted` m
ON pp.row_number=m.row_number
WHERE
    pp.Name='Serbia' AND pp.current_year BETWEEN 1991 AND 2001
GROUP BY pp.Name
```

UNION ALL

```
SELECT pp.Name,
       SUM(CASE WHEN pp.current_year=1991 THEN m.migrants ELSE 0 END) AS total_migrants,
       SUM(CASE WHEN pp.current_year=1991 THEN pp.previous_year_population ELSE 0 END) AS
previous_war_population,
       ROUND(SUM(CASE WHEN pp.current_year=1991 THEN m.migrants ELSE 0 END)*100/
             SUM(CASE WHEN pp.current_year=1991 THEN pp.previous_year_population ELSE 0 END), 2)
```

```

    AS total_loss_ratio
FROM previous_year_population pp
JOIN `bubbly-tractor-391309.pet_project.migrants_war_country_1974_2023_melted` m
ON pp.row_number=m.row_number
WHERE
    pp.Name='Slovenia' AND pp.current_year=1991
GROUP BY pp.Name

UNION ALL

SELECT pp.Name,
    SUM(CASE WHEN pp.current_year BETWEEN 1991 AND 1992 THEN m.migrants ELSE 0 END) AS
total_migrants,
    SUM(CASE WHEN pp.current_year=1991 THEN pp.previous_year_population ELSE 0 END) AS
previous_war_population,
    ROUND(SUM(CASE WHEN pp.current_year BETWEEN 1991 AND 1992 THEN m.migrants ELSE 0 END)*100/
        SUM(CASE WHEN pp.current_year=1991 THEN pp.previous_year_population ELSE 0 END), 2)
    AS total_loss_ratio
FROM previous_year_population pp
JOIN `bubbly-tractor-391309.pet_project.migrants_war_country_1974_2023_melted` m
ON pp.row_number=m.row_number
WHERE
    pp.Name='Montenegro' AND pp.current_year BETWEEN 1991 AND 1992
GROUP BY pp.Name

UNION ALL

SELECT pp.Name,
    SUM(CASE WHEN pp.current_year BETWEEN 1992 AND 1995 THEN m.migrants ELSE 0 END) AS
total_migrants,
    SUM(CASE WHEN pp.current_year=1992 THEN pp.previous_year_population ELSE 0 END) AS
previous_war_population,
    ROUND(SUM(CASE WHEN pp.current_year BETWEEN 1992 AND 1995 THEN m.migrants ELSE 0 END)*100/
        SUM(CASE WHEN pp.current_year=1992 THEN pp.previous_year_population ELSE 0 END), 2)
    AS total_loss_ratio
FROM previous_year_population pp
JOIN `bubbly-tractor-391309.pet_project.migrants_war_country_1974_2023_melted` m
ON pp.row_number=m.row_number
WHERE
    pp.Name='Bosnia and Herzegovina' AND pp.current_year BETWEEN 1992 AND 1995
GROUP BY pp.Name

UNION ALL

SELECT pp.Name,
    SUM(CASE WHEN pp.current_year=1994 THEN m.migrants ELSE 0 END) AS total_migrants,
    SUM(CASE WHEN pp.current_year=1994 THEN pp.previous_year_population ELSE 0 END) AS
previous_war_population,
    ROUND(SUM(CASE WHEN pp.current_year=1994 THEN m.migrants ELSE 0 END)*100/
        SUM(CASE WHEN pp.current_year=1994 THEN pp.previous_year_population ELSE 0 END), 2)
    AS total_loss_ratio
FROM previous_year_population pp
JOIN `bubbly-tractor-391309.pet_project.migrants_war_country_1974_2023_melted` m
ON pp.row_number=m.row_number
WHERE
    pp.Name='Rwanda' AND pp.current_year=1994
GROUP BY pp.Name

UNION ALL

SELECT pp.Name,
    SUM(CASE WHEN pp.current_year=2001 THEN m.migrants ELSE 0 END) AS total_migrants,

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SUM(CASE WHEN pp.current_year=2001 THEN pp.previous_year_population ELSE 0 END) AS
previous_war_population,
ROUND(SUM(CASE WHEN pp.current_year=2001 THEN m.migrants ELSE 0 END)*100/
SUM(CASE WHEN pp.current_year=2001 THEN pp.previous_year_population ELSE 0 END), 2)
AS total_loss_ratio
FROM previous_year_population pp
JOIN `bubbly-tractor-391309.pet_project.migrants_war_country_1974_2023_melted` m
ON pp.row_number=m.row_number
WHERE
pp.Name='North Macedonia' AND pp.current_year=2001
GROUP BY pp.Name

```

UNION ALL

```

SELECT pp.Name,
SUM(CASE WHEN pp.current_year BETWEEN 2003 AND 2011 THEN m.migrants ELSE 0 END) AS
total_migrants,
SUM(CASE WHEN pp.current_year=2003 THEN pp.previous_year_population ELSE 0 END) AS
previous_war_population,
ROUND(SUM(CASE WHEN pp.current_year BETWEEN 2003 AND 2011 THEN m.migrants ELSE 0 END)*100/
SUM(CASE WHEN pp.current_year=2003 THEN pp.previous_year_population ELSE 0 END), 2)
AS total_loss_ratio
FROM previous_year_population pp
JOIN `bubbly-tractor-391309.pet_project.migrants_war_country_1974_2023_melted` m
ON pp.row_number=m.row_number
WHERE
pp.Name='Iraq' AND pp.current_year BETWEEN 2003 AND 2011
GROUP BY pp.Name

```

UNION ALL

```

SELECT pp.Name,
SUM(CASE WHEN pp.current_year=2011 THEN m.migrants ELSE 0 END) AS total_migrants,
SUM(CASE WHEN pp.current_year=2011 THEN pp.previous_year_population ELSE 0 END) AS
previous_war_population,
ROUND(SUM(CASE WHEN pp.current_year=2011 THEN m.migrants ELSE 0 END)*100/
SUM(CASE WHEN pp.current_year=2011 THEN pp.previous_year_population ELSE 0 END), 2)
AS total_loss_ratio
FROM previous_year_population pp
JOIN `bubbly-tractor-391309.pet_project.migrants_war_country_1974_2023_melted` m
ON pp.row_number=m.row_number
WHERE
pp.Name='Libya' AND pp.current_year=2011
GROUP BY pp.Name

```

UNION ALL

```

SELECT pp.Name,
SUM(CASE WHEN pp.current_year BETWEEN 2011 AND 2023 THEN m.migrants ELSE 0 END) AS
total_migrants,
SUM(CASE WHEN pp.current_year=2011 THEN pp.previous_year_population ELSE 0 END) AS
previous_war_population,
ROUND(SUM(CASE WHEN pp.current_year BETWEEN 2011 AND 2023 THEN m.migrants ELSE 0 END)*100/
SUM(CASE WHEN pp.current_year=2011 THEN pp.previous_year_population ELSE 0 END), 2)
AS total_loss_ratio
FROM previous_year_population pp
JOIN `bubbly-tractor-391309.pet_project.migrants_war_country_1974_2023_melted` m
ON pp.row_number=m.row_number
WHERE
pp.Name='Syria' AND pp.current_year BETWEEN 2011 AND 2023
GROUP BY pp.Name;

```