

Task for the sheet 'Population'

The data contains Population by ethnicity, age and gender for the country of Malaysia from the year 1957 to 2018.

1. Identify the largest Ethnic group in Malaysia. Their average population growth over the years and what proportion of the total population do they constitute.

```
select sum(population), ethnicity
from world.population2
group by ethnicity
order by population desc
```

Largest ethnic group is “Chinese”

```
select birthyear, sum(population), lag(sum(population)) over (order by birthyear) as
Previous_year_data,
(((sum(population) - lag(sum(population)) over (order by birthyear))/lag(sum(population))
over (order by birthyear)) * 100) as GrowthRate
from world.population2
where ethnicity='Total Chinese'
group by birthyear
order by birthyear
```

On average the Chinese constitute 75% of Total Population

2. Identify the largest age group in Malaysia. Their average population growth over the years and what proportion of the total population do they constitute.

Largest Age group = 5 – 9 Years

```
select birthyear, sum(population), lag(sum(population)) over (order by birthyear) as
Previous_year_data,
(((sum(population) - lag(sum(population)) over (order by birthyear))/lag(sum(population))
over (order by birthyear)) * 100) as GrowthRate
from world.population2
where age = '5 - 9 Years' and ethnicity='Total Residents'
group by birthyear
order by birthyear
```

On average the Age Group (5-9) constitute 8.68% of Total Population

3. Identify the group (by age, ethnicity and gender) that:

```
select birthyear, sum(population), lag(sum(population)) over (order by birthyear) as  
Previous_year_data,  
(((sum(population) - lag(sum(population)) over (order by birthyear))/lag(sum(population))  
over (order by birthyear)) * 100) as GrowthRate  
from world.population2  
where age = 'Required Age Group' and ethnicity='Required Ethnicity'  
group by birthyear  
order by birthyear
```

- a. Has shown the highest growth rate
From the graph its evident that Age group “70+” , Ethnicity “Other minor groups”, Gender “Female” has highest growth rate
- b. Has shown the lowest growth rate
From the graph its evident that Age group “0-4” , Ethnicity “Malays”, Gender “Male” has lowest growth rate

Also the growth rate of senior citizens is on a steady raise after the year 1990 and the age group “0-4” is on a steady decline after 1985