












Benjamin Nikholas Partomuan

Tugas 16 – 31 Mei 2024

No	Soal	Query	Output																																	
1	<p>Tampilkan 10 nama negara (Name) dan jumlah bahasa (language) baik yang official maupun tidak di tiap negara, dari tabel Country dan CountryLanguage!</p> <p>Tampilkan hanya negara yang jumlah bahasanya di atas rata-rata jumlah bahasa tiap negara!</p> <p>Urutkan dari negara yang jumlah bahasanya paling banyak!</p>	<pre>select c.Name as Country_Name, count(cl.Language) as Total_Language from country as c left join countrylanguage as cl on c.Code = cl.CountryCode group by c.Name having count(cl.Language) > (select avg(len_lang) as avg_lang from (select count(language) as len_lang from countrylanguage group by CountryCode) as lang_len_data) order by Total_Language desc, Country_Name desc limit 10;</pre>	<div>Result Grid   Filter Rows: <input type="text"/> Export: </div> <table><tr><th></th><th>Country_Name</th><th>Total_Language</th></tr><tr><td>▶</td><td>United States</td><td>12</td></tr><tr><td></td><td>Russian Federation</td><td>12</td></tr><tr><td></td><td>India</td><td>12</td></tr><tr><td></td><td>China</td><td>12</td></tr><tr><td></td><td>Canada</td><td>12</td></tr><tr><td></td><td>Tanzania</td><td>11</td></tr><tr><td></td><td>South Africa</td><td>11</td></tr><tr><td></td><td>Uganda</td><td>10</td></tr><tr><td></td><td>Sudan</td><td>10</td></tr><tr><td></td><td>Philippines</td><td>10</td></tr></table>		Country_Name	Total_Language	▶	United States	12		Russian Federation	12		India	12		China	12		Canada	12		Tanzania	11		South Africa	11		Uganda	10		Sudan	10		Philippines	10
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2	Tampilkan 10 nama negara (Name), bentuk pemerintahan (GovernmentForm), jumlah population semua negara (Population), persentase populasi tiap negara, serta nomor index baris tiap negara dari tabel Country!	<pre>select Name as Country_Name, GovernmentForm, tb_wp.World_Population, (Population / (select sum(Population) from country) * 100) AS Pop_Percentage, @row_num := @row_num + 1 as row_index from country, (select sum(population) as World_Population from country) as tb_wp, (select @row_num := 0) as r order by Pop_Percentage desc limit 10;</pre>	<div>Result Grid   Filter Rows: <input type="text"/> Export:  Wrap Cell Content:  Fetch rows:</div> <table><tr><th></th><th>Country_Name</th><th>GovernmentForm</th><th>World_Population</th><th>Pop_Percentage</th><th>row_index</th></tr><tr><td>▶</td><td>China</td><td>People'sRepublic</td><td>6078749450</td><td>21.0168</td><td>42</td></tr><tr><td></td><td>India</td><td>Federal Republic</td><td>6078749450</td><td>16.6755</td><td>100</td></tr><tr><td></td><td>United States</td><td>Federal Republic</td><td>6078749450</td><td>4.5792</td><td>224</td></tr><tr><td></td><td>Indonesia</td><td>Republic</td><td>6078749450</td><td>3.4893</td><td>99</td></tr><tr><td></td><td>Brazil</td><td>Federal Republic</td><td>6078749450</td><td>2.7985</td><td>31</td></tr><tr><td></td><td>Pakistan</td><td>Republic</td><td>6078749450</td><td>2.5743</td><td>165</td></tr><tr><td></td><td>Russian Federation</td><td>Federal Republic</td><td>6078749450</td><td>2.4172</td><td>182</td></tr><tr><td></td><td>Bangladesh</td><td>Republic</td><td>6078749450</td><td>2.1247</td><td>22</td></tr><tr><td></td><td>Japan</td><td>Constitutional Monarchy</td><td>6078749450</td><td>2.0845</td><td>110</td></tr><tr><td></td><td>Nigeria</td><td>Federal Republic</td><td>6078749450</td><td>1.8344</td><td>156</td></tr></table>		Country_Name	GovernmentForm	World_Population	Pop_Percentage	row_index	▶	China	People'sRepublic	6078749450	21.0168	42		India	Federal Republic	6078749450	16.6755	100		United States	Federal Republic	6078749450	4.5792	224		Indonesia	Republic	6078749450	3.4893	99		Brazil	Federal Republic	6078749450	2.7985	31		Pakistan	Republic	6078749450	2.5743	165		Russian Federation	Federal Republic	6078749450	2.4172	182		Bangladesh	Republic	6078749450	2.1247	22		Japan	Constitutional Monarchy	6078749450	2.0845	110		Nigeria	Federal Republic	6078749450	1.8344	156
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3	Tampilkan jumlah kota di tiap kawasan regional (Region)! Tampilkan hanya kawasan di Benua Asia dan Eropa, serta tambahkan nomor sesuai jumlah kawasan regional di tiap benua (Continent)! Gunakan tabel City dan Country!	<pre>select c.Continent, c.Region, count(city.Name) as Number_of_City, row_number() over (partition by c.Continent) as row_group from country as c left join city on c.Code = city.CountryCode where c.Continent = ('Asia') or c.Continent = ('Europe') group by c.Region, c.Continent;</pre>	<div>Result Grid   Filter Rows: <input type="text"/> Export:  Wrap Cell Content: </div> <table><tr><th></th><th>Continent</th><th>Region</th><th>Number_of_City</th><th>row_group</th></tr><tr><td>▶</td><td>Asia</td><td>Southern and Central Asia</td><td>555</td><td>1</td></tr><tr><td></td><td>Asia</td><td>Middle East</td><td>174</td><td>2</td></tr><tr><td></td><td>Asia</td><td>Southeast Asia</td><td>297</td><td>3</td></tr><tr><td></td><td>Asia</td><td>Eastern Asia</td><td>740</td><td>4</td></tr><tr><td></td><td>Europe</td><td>Southern Europe</td><td>156</td><td>1</td></tr><tr><td></td><td>Europe</td><td>Western Europe</td><td>186</td><td>2</td></tr><tr><td></td><td>Europe</td><td>Eastern Europe</td><td>371</td><td>3</td></tr><tr><td></td><td>Europe</td><td>Nordic Countries</td><td>35</td><td>4</td></tr><tr><td></td><td>Europe</td><td>Baltic Countries</td><td>10</td><td>5</td></tr><tr><td></td><td>Europe</td><td>British Islands</td><td>83</td><td>6</td></tr></table>		Continent	Region	Number_of_City	row_group	▶	Asia	Southern and Central Asia	555	1		Asia	Middle East	174	2		Asia	Southeast Asia	297	3		Asia	Eastern Asia	740	4		Europe	Southern Europe	156	1		Europe	Western Europe	186	2		Europe	Eastern Europe	371	3		Europe	Nordic Countries	35	4		Europe	Baltic Countries	10	5		Europe	British Islands	83	6											
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4 Segmen konsumen yang potensial biasanya banyak tinggal di daerah ibukota negara. Meskipun, tidak menutup kemungkinan kota di luar ibukota juga mengalami perkembangan secara pesat, baik secara kuantitas pasar maupun daya beli konsumen. GNP suatu negara tidak sedikit yang disumbang perusahaan-perusahaan yang beroperasi di daerah ibukota. Terkadang pabriknya di luar ibukota, namun kantor pusatnya akan ditempatkan di ibukota. Sehingga, warga ibukota merupakan pasar potensial, karena banyak dari mereka yang bekerja di perusahaan-perusahaan besar penyumbang GNP nasional. Maka, GNP kurang lebih juga mencerminkan daya

```
select
    c.Continent,
    sum(city.Population) as Total_Capital_Population,
    avg(c.GNP) as Average_GNP,
    rank() over (
        order by sum(city.Population) desc
    ) as Rank_Population,
    rank() over (
        order by avg(c.GNP) desc
    ) as Rank_GNP
from country as c
left join city
on c.Capital = city.ID
group by c.Continent
having
    sum(city.Population) is not null
order by Total_Capital_Population desc;
```

Result Grid
Filter Rows:
Export:
Wrap Cell Content:

	Continent	Total_Capital_Population	Average_GNP	Rank_Population	Rank_GNP
▶	Asia	101322793	150105.725490	1	3
	Europe	51917214	206497.065217	2	2
	Africa	47714282	10006.465517	3	6
	South America	28900527	107991.000000	4	4
	North America	19120216	261854.789189	5	1
	Oceania	1142110	14991.953571	6	5

Benua yang perlu diprioritaskan: Benua Europe

	<p>beli warga di ibukota suatu negara. Untuk menyusun strategi global, sebuah multinational company membutuhkan data peringkat benua berdasarkan jumlah populasi warga ibukota dan peringkat benua berdasarkan rata-rata GNP semua negara di benua tersebut.</p> <ol style="list-style-type: none">1. Tulis query SQL dari tabel yang tersedia database World untuk mendapatkan output tabel seperti di bawah ini!2. Menurut analisis Anda, benua manakah yang perlu diprioritaskan untuk pemasaran produk perusahaan?	
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5 Sebuah multinational company lain memiliki pendekatan strategi yang lain. Bukan dengan pendekatan benua prioritas target pasar, melainkan langsung menysasar negara prioritas. Perusahaan ini juga tidak menekankan kuantitas pasar (market size), tapi lebih ke daya beli pasar (consumer's buying power). Salah satu aspek yang mencerminkan daya beli pasar di suatu negara adalah GNP. Asumsinya semakin tinggi GNP suatu negara, maka semakin prioritas menjadi target product marketing. Dengan hanya menysasar negara-negara yang menyumbang 80 persen dari total GNP Global, maka operasi pemasaran akan lebih efisien. Perusahaan menugaskan Anda untuk mendapatkan

```

select
    Name,
    GNP_Percentage,
    Cumulative_GNP,
    GNP_Rank,
    ceil((GNP_Rank - 0.01) / 4) AS Market_Priority_1234
from (
    select
        Name,
        GNP_Percentage,
        Cumulative_GNP,
        GNP_Rank
    from (
        select
            Name,
            GNP_Percentage,
            sum(GNP_Percentage) over (
                order by GNP_Percentage desc
            ) as Cumulative_GNP,
            row_number() over (
                order by GNP_Percentage desc
            ) as GNP_Rank
        from (
            select
                Name,
                round((GNP / (
                    select sum(GNP)
                    from country
                )) * 100, 2) as GNP_Percentage

```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Name	GNP_Percentage	Cumulative_GNP	GNP_Rank	Market_Priority_1234
▶	United States	28.99	28.99	1	1
	Japan	12.90	41.89	2	1
	Germany	7.27	49.16	3	1
	France	4.85	54.01	4	1
	United Kingdom	4.70	58.71	5	2
	Italy	3.96	62.67	6	2
	China	3.35	66.02	7	2
	Brazil	2.65	68.67	8	2
	Canada	2.04	70.71	9	3
	Spain	1.88	72.59	10	3
	India	1.52	74.11	11	3
	Mexico	1.41	75.52	12	3
	Netherlands	1.27	76.79	13	4
	Australia	1.20	77.99	14	4
	Argentina	1.16	79.15	15	4
	South Korea	1.09	80.24	16	4

	<p>output table seperti di bawah ini dari World Database.</p> <p>Tulis SQL query untuk menampilkan:</p> <ol style="list-style-type: none">1. Nama negara prioritas2. Persentase GNP tiap negara dibandingkan total GNP Global3. Nilai kumulatif (Moving Sum) dari persentase GNP hanya sampai 80 persen saja4. Peringkat berdasarkan persentase GNP5. Kelompokkan negara-negara prioritas ini ke dalam 4 kelompok Market Priority!	<pre>from country) as subquery) as ranked_countries) as final order by GNP_Percentage desc;</pre>	
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