Part One: Conditionals

I. What percentage of the total historical case increase did the increases from October 2020 to December 2020 make up (i.e. sum of October 2020 to December 2020 increase/sum of all increase). Show for each region.

#	*Question/Task*	*Query/Answer*

1	Show the query to get the data needed. You can type, copy paste, or paste an image.	`/*What percentage of the total historical case increase did the increases from October 2020 to December 2020 make up (i.e. sum of October 2020 to December 2020 increase/sum of all increase). Show for each region.*/`
		`SELECT`
		`J.region_name`
		`,J.region_code`
		`,SUM(IF(DATE(J.date) BETWEEN DATE('2020-10-01') AND DATE('2020-12-31'),`
		`J.new_total_confirmed_cases,0))/SUM(J.total_confirmed_cases) AS percentage`
		`FROM bigquery-public-data.covid19_italy.data_by_region J`
		`GROUP BY`
		`1,2;`

2	Show a screenshot of the output. No need to show everything, just a sample will do.	

JOB INFORMATION | RESULTS | JSON | EXECUTION DETAIL

ow	region_name	region_code	percentage
1	Piemonte	1	0.000196337891...
2	Lombardia	3	0.000184180797...
3	Veneto	5	0.000184653496...
4	Friuli Venezia Giulia	6	0.000170335117...
5	Liguria	7	0.000153457573...
6	Emilia-Romagna	8	0.000134112243...
7	Toscana	9	0.000141392850...
8	Umbria	10	0.000137356279...
9	Marche	11	0.000105381979...

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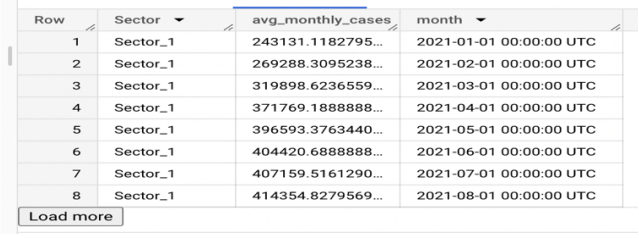
II. Let Sector 1 = regions 1,2,3,4; Sector 2 = regions 5,6,7,8,9,10, Sector 3 = regions 11,12,13, Sector 4 = all other regions. Show each sector's average increase in cases per month, from Jan 2021 to Oct 2021

** note: sectoring here is arbitrary and should not be a basis of any actual sectoring done in the real world 😊

#	*Question/Task*	*Query/Answer*
1	Show the query to get the data needed. You can type, copy paste, or paste an image.	`SELECT CASE WHEN J.region_code IN ('1','2','3','4') THEN 'Sector_1' WHEN J.region_code IN ('5','6','7','8','8','10') THEN 'Sector_2' WHEN J.region_code IN ('11','12','13') THEN 'Sector_3' ELSE 'Sector_4' END AS Sector ,AVG(J.total_confirmed_cases) AS monthly_cases ,DATE_TRUNC(J.date,MONTH) AS month FROM bigquery-public-data.covid19_italy.data_by_region J WHERE DATE(J.date) BETWEEN DATE('2021-01-01') AND DATE('2021-10-31') GROUP BY 1,3;`
2	Show a screenshot of the output. No need to show everything, just a sample will do.	

Row	Sector	avg_monthly_cases	month
1	Sector_1	243131.1182795...	2021-01-01 00:00:00 UTC
2	Sector_1	269288.3095238...	2021-02-01 00:00:00 UTC
3	Sector_1	319898.6236559...	2021-03-01 00:00:00 UTC
4	Sector_1	371769.1888888...	2021-04-01 00:00:00 UTC
5	Sector_1	396593.3763440...	2021-05-01 00:00:00 UTC
6	Sector_1	404420.6888888...	2021-06-01 00:00:00 UTC
7	Sector_1	407159.5161290...	2021-07-01 00:00:00 UTC
8	Sector_1	414354.8279569...	2021-08-01 00:00:00 UTC

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